

Command NAME	ASCII command type	ASCII command structure	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
ASCII COMMANDS						
HEART BEAT	ASCII READ COMMAND	#HB<CR> Result: #HB<CR>			ASCII	
	TX	#1,HB<CR>				
	RX	#1,HB<CR>				
Sends an Heartbeat to test the communcation						
GET VERSION	ASCII READ COMMAND	#VERSION<CR> Result: #VERSION:<VersionHi>,<VersionMed>,<VersionLo><CR>			ASCII	
	TX	#1,VERSION<CR>				
	RX	#1,VERSION:1.2.00<CR>				
		Current SW version:1.2.00				
Returns the version number of the module VersionHi: Version number high (1..255) VersionMed: Version number medium (1..255) VersionLo: Version number low (1..255)						
GET TYPE	ASCII READ COMMAND	#TYPE<CR> Result: #TYPE:<Type><CR>			ASCII	
	TX	#1,TYPE<CR>				
	RX	#1,TYPE:RESI-32DI24RO-SIO<CR>				
		Current module type:RESI-32DI24RO-SIO				
Returns the current module type						
GET FEATURES	ASCII READ COMMAND	#FTRS<CR> Result: #FTRS:<Type><CR>			ASCII	
	TX	#1,FTRS<CR>				
	RX	#1,FTRS:RESI-32DI24RO-SIO,RS485,DI:32,RO:24,RELAY:30VDC,250VAC,6A,AGSNO2<CR>				
		Current module type:#1,FTRS:RESI-32DI24RO-SIO,RS485,DI:32,RO:24,RELAY:30VDC,250VAC,6A,AGSN				
Returns the current module features						
GET OWNER	ASCII READ COMMAND	#OWNER<CR> Result: #OWNER:<Owner><CR>			ASCII	
	TX	#1,OWNER<CR>				
	RX	#1,OWNER:RESI<CR>				
		Current owner:RESI				
Returns the current owner of the module						

GET CREATOR	ASCII READ COMMAND	#CREATOR<CR> Result: #CREATOR:<Creator><CR>	ASCII	
	TX	#1,CREATOR<CR>		
	RX	#1,CREATOR:DI HC SIGL,MSC<CR>		
		Current creator:DI HC SIGL,MSC		
Returns the current creator of the module				
GET COPYRIGHT	ASCII READ COMMAND	#COPYRIGHT<CR> Result: #COPYRIGHT:<Copyright><CR>	ASCII	
	TX	#1,COPYRIGHT<CR>		
	RX	#1,COPYRIGHT:2015-24 BY RESI AND DI HC SIGL,MSC WWW.RESI.CC<CR>		
		Current copyright:2015-24 BY RESI AND DI HC SIGL,MSC WWW.RESI.CC		
Returns the current copyright of the module				
GET SERIAL NUMBER	ASCII READ COMMAND	#SN<CR> Result: #SN:<Serial><CR>	ASCII	
	TX	#1,SN<CR>		
	RX	#1,SN:280029001457435535343920<CR>		
		Current serial number:280029001457435535343920		
Returns the current serial number of the module				
GET INTERNAL STATUS	ASCII READ COMMAND	#INTSTAT<CR> Result: #INTSTAT:<Status><CR>	ASCII	
	TX	#1,INTSTAT<CR>		
	RX	#1,INTSTAT:I2C1:0,I2C2:0,FRAM:24<CR>		
Returns the device specific internal status				
GET DIP SWITCH	ASCII READ COMMAND	#GDIP<CR> Result: #GDIP:<DIPSwitchDec>,<DIPSwitchHex><CR>	ASCII	
	TX	#1,GDIP<CR>		
	RX	#1,GDIP:65,0x41<CR>		
		Current DIP SWITCH settings:0100.0001		
Returns the current setting of the Dip switches as decimal number and as hexadecimal number. DIPSwitchDec DIPSwitchHex The current value of the DIP switches: Bit 0: DIP Switch 1 (=0:OFF, =1:ON) Bit 1: DIP Switch 2 (=0:OFF, =1:ON) Bit 2: DIP Switch 3 (=0:OFF, =1:ON) Bit 3: DIP Switch 4 (=0:OFF, =1:ON) Bit 4: DIP Switch 5, if available (=0:OFF, =1:ON) Bit 5: DIP Switch 6, if available (=0:OFF, =1:ON) Bit 6: DIP Switch 7, if available (=0:OFF, =1:ON) Bit 7: DIP Switch 8, if available (=0:OFF, =1:ON)				
ASCII COMMANDS				

SET MODBUS ADDRESS	ASCII WRITE COMMAND	#SMBADR:<UNITID> <CR> Result: #OK<CR>	ASCII	NO
	UNITID	123		
	TX	#1,SMBADR:123<CR>		
	RX	N/A		
Redefines the unit ID of the module. This change will affect the MODBUS/RTU communication immediately. As a Unit IO you can use the values 0dec to 255dec.				
HINT: The new settings are activated after a system reboot or power off on cycle!				
SET MODBUS BAUDRATE	ASCII WRITE COMMAND	#SMBBAUD:<BAUD> <CR> Result: #OK<CR>	ASCII	NO
	BAUD	128000:128000BD		
	TX	#1,SMBBAUD:128000<CR>		
	RX	N/A		
Sets a new baud rate in the FLASH For ULTRA SLIM IOs RESI-xxx-SIO: This baudrate is only used, if DIP switch mode DIP1=ON+DIP2=ON (BR) (default is 57600bd) For BIG IOs RESI-xxx-SIO: This baudrate is only used, if DIP switch mode DIP7=ON (PARAMETER) (default is 57600bd) The following baudrates are allowed: 300bd, 600bd, 900bd, 1200bd, 2400bd, 4800bd, 9600bd, 19200bd, 38400bd, 57600bd, 115200bd, 128000bd 230400bd, 250000bd, 256000bd				
HINT: The new setup parameters will be active after a restart of the module.				
SET MODBUS PARITY	ASCII WRITE COMMAND	#SMBPAR:<PARITY> <CR> Result: #OK<CR>	ASCII	NO
	PARITY	ODD:ODD PARITY		
	TX	#1,SMBPAR:ODD<CR>		
	RX	N/A		
Sets a new parity for the serial interface. MBParity: NONE: no parity EVEN: even parity ODD: odd parity				
HINT: The new setup parameters will be active after a restart of the module.				
SET MODBUS STOPS	ASCII WRITE COMMAND	#SMBSTOP:<STOPBIT> <CR> Result: #OK<CR>	ASCII	NO
	STOPBIT	TWO:TWO STOPBITS		
	TX	#1,SMBSTOP:TWO<CR>		
	RX	N/A		

Sets a new amount of stop bits for the serial interface. MBStops ONE: one stop bit TWO: two stop bits HINT: The new setup parameters will be active after a restart of the module.				
SET MODBUS PARAMS	ASCII WRITE COMMAND	#SMBPARAMS:<UNITID>,<BAUD>,<PARITY>,<STOPBIT><CR> Result: #OK<CR>	ASCII	NO
	UNITID	3		
	BAUD	115200:115200BD		
	PARITY	EVEN:EVEN PARITY		
	STOPBIT	TWO:TWO STOPBITS		
	TX	#1,SMBPARAMS:3,115200,EVEN,TWO<CR>		
	RX	N/A		
Sets all parameters for serial interface				
GET MODBUS ADDRESS	ASCII READ COMMAND	#GMBADR<CR> Result: #GMBADR:<MBUnitDec>,<MBFLASHDec>,<MBUnitHex>,<MBFLASHHex><CR>	ASCII	
	TX	#1,GMBADR<CR>		
	RX	#1,GMBADR:1,15,0x1,0xF<CR>		
		Current MODBUS unit ID:1,15,0x1,0xF		
Shows the current used MODBUS/RTU or ASCII unit address and shows also the stored unit address in the FLASH memory, which is only used if the DIP switch for the bus address is set to 0. MBUnitDec,MBUnitHex The current used MODBUS/RTU unit or ASCII address for communication MBFLASHDec,MBFLASHHex The internal stored MODBUS/RTU unit address or ASCII address from the FLASH memory, if the DIP switch DIP3 is OFF.				
GET MODBUS BAUDRATE	ASCII READ COMMAND	#GMBBAUD<CR> Result: #GMBBAUD:<BaudRate><CR>	ASCII	
	TX	#1,GMBBAUD<CR>		
	RX	#1,GMBBAUD:115200,0x1C200<CR>		
		Current baudrate:115200,0x1C200		
This is the current configured baud rate in the FLASH For ULTRA SLIM IOs RESI-xxx-SIO: This baudrate is only used, if DIP switch mode DIP1=ON+DIP2=ON (BR) (default is 57600bd) For BIG IOs RESI-xxx-SIO: This baudrate is only used, if DIP switch mode DIP7=ON (PARAMETER) (default is 57600bd) The following baudrates are allowed: 300bd, 600bd, 900bd, 1200bd, 2400bd, 4800bd, 9600bd, 19200bd, 38400bd, 57600bd, 115200bd, 128000bd 230400bd, 250000bd, 256000bd				
GET MODBUS PARITY	ASCII READ COMMAND	#GMBPAR<CR> Result: #GMBPAR:<MBParity><CR>	ASCII	
	TX	#1,GMBPAR<CR>		
	RX	#1,GMBPAR:NONE<CR>		

		Current parity:NONE		
Shows the current configured parity of the serial interface. MBParity NONE: no parity EVEN: even parity ODD: odd parity				
GET MODBUS STOP	ASCII READ COMMAND	#GMBSTOP<CR> Result: #GMBSTOP:<MBStop> <CR>	ASCII	
	TX	#1,GMBSTOP<CR>		
	RX	#1,GMBPAR:ONE<CR>		
		Current stopbit(s):ONE		
Shows the current configured parity of the serial interface. MBParity NONE: no parity EVEN: even parity ODD: odd parity				
GET MODBUS PARAMS	ASCII READ COMMAND	#GMBPARAMS<CR> Result: #GMBPARAMS:<MBUnitDec>,<MBFLASHDec>,<MBUnitHex>,<MBFLASHHex>,<MBBaudrateDec>,<MBBaudrateHex>,<MBParity>,<MBStops> <CR>	ASCII	
	TX	#1,GMBPARAMS<CR>		
	RX	#1,GMBPARAMS:1,0x1,15,0xF,115200,0x1C200,NONE,ONE <CR>		
		Current MODBUS unit ID used:1		
		Current MODBUS unit ID in FLASH:15		
		Current baudrate in FLASH:115200		
		Current parity in FLASH:NONE		
		Current stopbit(s) in FLASH:ONE		
Returns the complete settings for serial interface				
ASCII COMMANDS				
RESET	ASCII WRITE COMMAND	#RST<CR> Result: #OK<CR>	ASCII	NO
	TX	#1,RST<CR>		
	RX	N/A		
Executes a software reset (Reboot) of the module.				
FACTORY RESET	ASCII WRITE COMMAND	#FRST<CR> Result: #OK<CR>	ASCII	NO
	TX	#1,FRST<CR>		
	RX	N/A		
Performs a factory reset of all internal saved parameters				
SET MODBUS WATCHDOG TIMER	ASCII WRITE COMMAND	#SMBWATCHDOG:<WDTIME> <CR> Result: #OK<CR>	ASCII	YES

	WDTIME	100		
	TX	#1,SMBWATCHDOG:100<CR>		
	RX	#1,OK<CR>		
Enables or disables the WATCHDOG Timer for the IO module. WDTIME: 1..65535: Time for Watchdog in 1/100s =0: Watchdog is deactivated HINT: The Watchdog is internally handled every 100ms. If the IO module receives no valid frame within this time period, the outputs are set to predefined values!				
GET MODBUS WATCHDOG TIMER	ASCII READ COMMAND	#GMBWATCHDOG<CR> Result: #GMBWATCHDOG:<WDTIME> <CR>	ASCII	
	TX	#1,GMBWATCHDOG<CR>		
	RX	#1,GMBWATCHDOG:0,0x0<CR>		
		Current watchdog time:0 -> 0,0s		
Shows the actual configured time for the telegram watchdog function of the IO module. WDTIME: 1..65535: Time for Watchdog in 1/100s =0: Watchdog is deactivated HINT: The Watchdog is internally handled every 100ms. If the IO module receives no valid frame within this time period, the outputs are set to predefined values!				
CPU PARAMETERS				
GET CPU VOLTAGE	ASCII READ COMMAND	#GCPUTEMP<CR> Result: #GCPUTEMP:<CPUTemp> <CR>	ASCII	
	TX	#1,GCPUTEMP<CR>		
	RX	#1,GCPUTEMP:34.6316<CR>		
		Current internal temperature of CPU:34.6316°C		
Current internal temperature of CPU in ° Celsius.				
GET CPU VOLTAGE	ASCII READ COMMAND	#GCPUVOLT<CR> Result: #GCPUVOLT:<CPUVoltage> <CR>	ASCII	
	TX	#1,GCPUVOLT<CR>		
	RX	#1,GCPUVOLT:3.3716<CR>		
		Current supply voltage of CPU:3.3716V		
Current internal supply voltage of CPU in Volt.				
GET CPU BACKUP	ASCII READ COMMAND	#GCPUBACK<CR> Result: #GCPUBACK:<CPUBackupVoltage> <CR>	ASCII	
	TX	#1,GCPUBACK<CR>		
	RX	#1,GCPUBACK:0.0002<CR>		
		Current backup voltage of CPU:0.0002V		
Current internal backup capacitor voltage of CPU in Volt.				

Register NAME	MODBUS Register	Register VALUE	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
PRODUCT DATA						
HW_GROUP	3x65201 4x65201 I:65200	16384,0x4000 B:40 00			UINT16 R/O	
This is the group of hardware of the current product						
SW_GROUP	3x65202 4x65202 I:65201	32802,0x8022 B:80 22			UINT16 R/O	
This is the group of software of the current product						
SW_VERSION	3x65203 4x65203 I:65202	4608,0x1200 B:12 00			UINT16 R/O	
		SW VERSION:1.2.0				
This is the current software version of the firmware						
SW_AUTHOR	3x65204 4x65204 I:65203	18771,0x4953 B:49 53			UINT16 R/O	
This is the current software author of the firmware						
MODBUS SETTINGS						
UNIT_ID	3x65222 4x65222 I:65221	1,0x0001 B:00 01			UINT16 R/O	
		UNIT ID:1				
If the host reads this register, the current defined unit ID is returned.						
FLASH UNIT_ID	3x65223 4x65223 I:65222	15,0x000F B:00 0F		27	UINT16 R/W	NO
		UNIT ID:15				
If the host reads this register, the current defined unit ID from the FLASH is returned. This UnitID is used if DIP switch for UnitID is set to 15						
HINT:This settings will be active after you repower or reset your device !!						
BAUD_RATE	3x65224 4x65224 I:65223	115200,0x0001C200 B:00 01 C2 00	57600	57600	UINT32 R/W	NO
		115200Bd	ENTER BAUD RATE			
This is the current configured baud rate in the FLASH For ULTRA SLIM IOs RESI-xxx-SIO: This baudrate is only used, if DIP switch mode DIP1=ON+DIP2=ON (BR) (default is 57600bd) For BIG IOs RESI-xxx-SIO: This baudrate is only used, if DIP switch mode DIP7=ON (PARAMETER) (default is 57600bd)						

Valid baud rates are: 300bd, 600bd, 900bd, 1200bd, 2400bd, 4800bd, 9600bd, 19200bd, 38400bd, 57600bd, 115200bd, 128000bd 230400bd, 250000bd, 256000bd						
HINT:This settings will be active after you repower or reset your device !!						
PARITY	3x65226 4x65226 l:65225	0,0x0000 B:00 00		1:EVEN PARITY	UINT16 R/W	NO
		NO PARITY		SELECT PARITY		
If the register is read out, the currently set parity of the serial interface is returned. Writing a value to this register will change the new parity in FLASH. This will only take effect after a restart of the module. This can be triggered by writing to the RESET SYSTEM register.						
Parity values are 0: no parity 1: even parity 2: odd parity						
STOP BITS	3x65227 4x65227 l:65226	1,0x0001 B:00 01		2:TWO STOPBITS	UINT16 R/W	NO
		ONE STOPBIT		SELECT STOPBITS		
If the register is read out, the currently set number of stop bits of the serial interface is returned. Writing a value to this register will change the new number of stop bits in the FLASH. This will only take effect after a restart of the module. This can be triggered by writing to the RESET SYSTEM register.						
Values for stop bits are 1: one stop bit 2: two stop bits						
MODBUS TIMING	3x65228 4x65228 l:65227	0,0x0000 B:00 00		10	UINT16 R/W	NO
		Actual timing:0ms				
If the host reads this register, the current defined timing for MODBUS telegrams is returned. This timing is a time in ms which extends the standard 1.5 character timeout between two consecutive bytes on the serial line. If you write a new value to this register, the new settings are stored into the internal FLASH. Reboot the device to activate the new settings.						
MODBUS WATCHDOG TIME	3x65229 4x65229 l:65228	0,0x0000 B:00 00		50	UINT16 R/W	YES
		Actual watchdog time in 1/100s:0 -> 0,0s				
Writing a value onto this register defines a new time for the internal communication watchdog timer. The value is a timespan in 1/100s. =0: The communication watchdog is disabled =1..65535: Communication watchdog will be trigegred after x 1/100s pause on communication line In case of an communication watchdog, the module sets all outputs to the states defined in the configuration output registers Reading this registe will return the current stored time from the internal FLASH						
CPU DATA						
SERIAL1	3x65521 4x65521 l:65520	40,0x0028 B:00 28			UINT16 R/O	

Serial number of module as 96 bit unsigned integer number						
SERIAL2	3x65522 4x65522 I:65521	41,0x0029 B:00 29			UINT16 R/O	
SERIAL3	3x65523 4x65523 I:65522	22292,0x5714 B:57 14			UINT16 R/O	
SERIAL4	3x65524 4x65524 I:65523	21827,0x5543 B:55 43			UINT16 R/O	
SERIAL5	3x65525 4x65525 I:65524	13365,0x3435 B:34 35			UINT16 R/O	
SERIAL6	3x65526 4x65526 I:65525	8249,0x2039 B:20 39			UINT16 R/O	
	SERIAL:280029001457435535343920					
Serial number of module as 96 bit unsigned integer number						
CPU TEMPERATURE	3x65527 4x65527 I:65526	3478,0x0D96 B:0D 96			UINT16 R/O	
	Current internal temperature of CPU:34,8°C					
Current internal temperature of CPU in ° Celsius multiplied by 10.						
CPU VOLTAGE	3x65528 4x65528 I:65527	337,0x0151 B:01 51			UINT16 R/O	
	Current supply voltage of CPU:3,37V					
Current internal supply voltage of CPU in Volt multiplied by 1000.						
CPU BACKUP VOLTAGE	3x65529 4x65529 I:65528	0,0x0000 B:00 00			UINT16 R/O	
	Current backup voltage of CPU:0,00V					
Current internal backup capacitor voltage of CPU in Volt multiplied by 1000.						
DIP SWITCH STATUS						
DIP SWITCH	3x65300 4x65300 I:65299	65,0x0041 B:00 41			UINT16 R/O	
Returns the current setting of the Dip switches. Bit 0: DIP Switch 1 (=0:OFF, =1:ON) Bit 1: DIP Switch 2 (=0:OFF, =1:ON) Bit 2: DIP Switch 3 (=0:OFF, =1:ON) Bit 3: DIP Switch 4 (=0:OFF, =1:ON) Bit 4: DIP Switch 5 (=0:OFF, =1:ON) Bit 5: DIP Switch 6 (=0:OFF, =1:ON) Bit 6: DIP Switch 7 (=0:OFF, =1:ON) Bit 7: DIP Switch 8 (=0:OFF, =1:ON)						

CONVERTER STATUS						
CONVERTER STATUS	3x65534 4x65534 I:65533	0,0x0000 B:00 00			UINT16 R/O	
Current status of the converter						
FACTORY RESET	3x65535 4x65535 I:65534	0,0x0000 B:00 00		1:PERFORM FACTORY RESET	UINT16 R/W	NO
Performs a factory reset of all internal saved parameters						
SOFTWARE RESET						
RESET	1x65536 2x65536 I:65535	0,0x00 B:00		N/A:NO CHANGE	BIT R/W	NO
Performs a software reset, whenever 1 is written to this register. If the host writes to this register 1, the module executes a soft reset (reboot).						
RESET	3x65536 4x65535 I:65535	0,0x0000 B:00 00		N/A:NO CHANGE	UINT16 R/W	NO
Performs a software reset, whenever 1 is written to this register. If the host writes to this register 1, the module executes a soft reset (reboot).						

Command NAME	ASCII command type	ASCII command structure	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
ASCII COMMANDS						
DIGITAL INPUTS						
GET DIGITAL INPUTS	ASCII READ COMMAND	#GDIS<CR> Result: #GDIS:<DISDec>,<DISHex><CR>			ASCII	
	TX	#1,GDIS<CR>				
	RX	#1,GDIS:0,0x0<CR>				
		Actual status of digital inputs:0000.0000.0000.0000.0000.0000.0000				
Returns the actual state of all digital inputs as decimal number and as hexadecimal number. DISDec, DISHex The current state of all digital inputs: Bit 0: State of DI1 (=0:OFF, =1:ON) Bit 1: State of DI2 (=0:OFF, =1:ON) Bit 2: State of DI3 (=0:OFF, =1:ON) ... Bit 29: State of DI30 (=0:OFF, =1:ON) Bit 30: State of DI31 (=0:OFF, =1:ON) Bit 31: State of DI32 (=0:OFF, =1:ON)						
GET DIGITAL INPUT Dlx	ASCII READ COMMAND	#GDI<DINR><CR> Result: #GDI<DINR>:<DlxDec>,<DlxHex><CR>			ASCII	
	DINR	1				
	TX	#1,GDI1<CR>				
	RX	#1,GDI1:0,0x0<CR>				
		Actual status of digital input DI1:0=OFF				
<DINR>: 1=DI1..32=DI32						
Returns the actual state of the digital input Dlx as decimal number and as hexadecimal number. DlxDec, DlxHex: The current state of the digital input x: =0: Digital input is OFF =1: Digital input is ON						
GET ALL CHANGES	ASCII READ COMMAND	#GAC<CR> Result: #GAC:<ChangesDec>,<ChangesHex><CR>			ASCII	
	TX	#1,GAC<CR>				
	RX	#1,GAC:0,0x0<CR>				
		Actual change counter:0				
Returns the counter for changes on all digital inputs. As soon as the module detects a short keypress or long key press or long key release event, this counter is incremented by 1. If this values has changed sience the last polling request, the host knows, that at least one digital input has changed its state.						

CHANGE ALL DIS PART x	ASCII READ COMMAND	#CADISP<PART> <CR> Result: #CADISP<PART>:<ChangeDInDec>,...,<ChangeDIn+15Dec>, <ChangeDInHex>,...,<ChangeDIn+15Hex> <CR>	ASCII	
	PART	2		
	TX	#1,CADISP2<CR>		
	RX	#1,CADISP2:0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0<CR>		
		Actual counter for changes on DI17:0		
		Actual counter for changes on DI18:0		
		Actual counter for changes on DI19:0		
		Actual counter for changes on DI20:0		
		Actual counter for changes on DI21:0		
		Actual counter for changes on DI22:0		
		Actual counter for changes on DI23:0		
		Actual counter for changes on DI24:0		
		Actual counter for changes on DI25:0		
		Actual counter for changes on DI26:0		
		Actual counter for changes on DI27:0		
		Actual counter for changes on DI28:0		
		Actual counter for changes on DI29:0		
		Actual counter for changes on DI30:0		
		Actual counter for changes on DI31:0		
		Actual counter for changes on DI32:0		
<PART>: 1..2, 1=DI1-DI16, 2=DI17-DI32				
Returns for each digital input the counter for changes. As soon as the module detects a signal change on a digital input, the change counter for the affected digital input is incremented by 1. A signal change can be: Detection of a short keypress Detection of the start of a long keypress Detection of a release of a long keypress				
The parameter <PART> defines the part of the digital inputs. The command returns maximal 16 digital inputs.				
CHANGE DIx	ASCII READ COMMAND	#CDI<DINR> <CR> Result: #CDI<DINR>:<ChangesDec>,<ChangesHex> <CR>	ASCII	
	DINR	1		
	TX	#1,CDI1<CR>		
	RX	#1,CDI1:0,0x0<CR>		
		Actual counter for changes on digital input DI1:0		
<DINR>: 1=DI1..32=DI32				
Returns for digital input <DINR> the counter for signal changes. As soon as the module detects a signal change on a digital input, the change counter for the affected digital input is incremented by 1. A signal change can be: Detection of a short keypress Detection of the start of a long keypress Detection of a release of a long keypress				

SHORT KEY ALL DIS PART x	ASCII READ COMMAND	#SKADISP<PART> <CR> Result: #SKADISP<PART>:<ShortKeyDInDec>,...,<ShortKeyDIn+15Dec>, <ShortKeyDInHex>,...,<ShortKeyDIn+15Hex> <CR>	ASCII	
	PART	2		
	TX	#1,SKADISP2<CR>		
	RX	#1,SKADISP2:0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0<CR>		
		Actual counter for short keypress events on DI17:0		
		Actual counter for short keypress events on DI18:0		
		Actual counter for short keypress events on DI19:0		
		Actual counter for short keypress events on DI20:0		
		Actual counter for short keypress events on DI21:0		
		Actual counter for short keypress events on DI22:0		
		Actual counter for short keypress events on DI23:0		
		Actual counter for short keypress events on DI24:0		
		Actual counter for short keypress events on DI25:0		
		Actual counter for short keypress events on DI26:0		
		Actual counter for short keypress events on DI27:0		
		Actual counter for short keypress events on DI28:0		
		Actual counter for short keypress events on DI29:0		
		Actual counter for short keypress events on DI30:0		
		Actual counter for short keypress events on DI31:0		
		Actual counter for short keypress events on DI32:0		
<PART>: 1..2, 1=DI1-DI16, 2=DI17-DI32				
Returns for each digital input the counter for short keypress events. As soon as the module detects a short keypress on a digital input, the counter for the affected digital input is incremented by 1.				
The parameter <PART> defines the part of the digital inputs. The command returns maximal 16 digital inputs.				
SHORT KEY DIx	ASCII READ COMMAND	#SKDI<DINR> <CR> Result: #SKDI<DINR>:<ShortKeyDec>,<ShortKeyHex> <CR>	ASCII	
	DINR	1		
	TX	#1,SKDI1<CR>		
	RX	#1,SKDI1:0,0x0<CR>		
		Actual counter for short keypress events on digital input DI1:0		
<DINR>: 1=DI1..32=DI32				
Returns for digital input <DINR> the counter for short keypress events. As soon as the module detects a short keypress on a digital input, the counter for the affected digital input is incremented by 1.				
LONG KEY START ALL DIS PART x	ASCII READ COMMAND	#LKSADISP<PART> <CR> Result: #LKSADISP<PART>:<LongKeyStartDInDec>,...,<LongKeyStartDIn+15Dec>, <LongKeyStartDInHex>,...,<LongKeyStartDIn+15Hex> <CR>	ASCII	
	PART	2		

	TX	#1,LKSADISP2<CR>		
	RX	#1,LKSADISP2:0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0<CR>		
		Actual counter for long keypress start events on DI17:0		
		Actual counter for long keypress start events on DI18:0		
		Actual counter for long keypress start events on DI19:0		
		Actual counter for long keypress start events on DI20:0		
		Actual counter for long keypress start events on DI21:0		
		Actual counter for long keypress start events on DI22:0		
		Actual counter for long keypress start events on DI23:0		
		Actual counter for long keypress start events on DI24:0		
		Actual counter for long keypress start events on DI25:0		
		Actual counter for long keypress start events on DI26:0		
		Actual counter for long keypress start events on DI27:0		
		Actual counter for long keypress start events on DI28:0		
		Actual counter for long keypress start events on DI29:0		
		Actual counter for long keypress start events on DI30:0		
		Actual counter for long keypress start events on DI31:0		
		Actual counter for long keypress start events on DI32:0		

<PART>: 1..2, 1=DI1-DI16, 2=DI17-DI32

Returns for each digital input the counter for long keypress start events. As soon as the module detects the start of a long keypress on a digital input, the counter for the affected digital input is incremented by 1.

The parameter <PART> defines the part of the digital inputs. The command returns maximal 16 digital inputs.

LONG KEY START DIx	ASCII READ COMMAND	#LKSDI<DINR> <CR> Result: #LKSDI<DINR>:<LongKeyStartDec>,<LongKeyStartHex> <CR>	ASCII	
	DINR	1		
	TX	#1,LKSDI1<CR>		
	RX	#1,LKSDI1:0,0x0<CR>		
		Actual counter for long keypress start events on digital input DI1:0		

<DINR>: 1=DI1..32=DI32

Returns for digital input <DINR> the counter for long keypress start events.

As soon as the module detects the start of a long keypress on a digital input, the counter for the affected digital input is incremented by 1.

LONG KEY END ALL DIS PART x	ASCII READ COMMAND	#LKEADISP<PART> <CR> Result: #LKEADISP<PART>:<LongKeyEndDInDec>,...,<LongKeyEndDIn+15Dec>, <LongKeyEndDInHex>,...,<LongKeyEndDIn+15Hex> <CR>	ASCII	
	PART	2		
	TX	#1,LKEADISP2<CR>		
	RX	#1,LKEADISP2:0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0<CR>		
		Actual counter for long keypress end events on DI17:0		
		Actual counter for long keypress end events on DI18:0		

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[illegible]

		Actual counter for falling edges on DI29:0		
		Actual counter for falling edges on DI30:0		
		Actual counter for falling edges on DI31:0		
		Actual counter for falling edges on DI32:0		
<PART>: 1..2, 1=DI1-DI16, 2=DI17-DI32				
Returns for each digital input the counter for falling edges. As soon as the module detects a falling edge on a digital input, the falling edge counter for the affected digital input is incremented by 1.				
The parameter <PART> defines the part of the digital inputs. The command returns maximal 16 digital inputs.				
FALL Dix	ASCII READ COMMAND	#FDI<DINR> <CR> Result: #FDI<DINR>:<FallDec>,<FallHex> <CR>	ASCII	
	DINR	1		
	TX	#1,FDI1<CR>		
	RX	#1,FDI1:0,0x0<CR>		
		Actual counter for falling edges on digital input DI1:0		
<DINR>: 1=DI1..32=DI32				
Returns for digital input <DINR> the counter for falling edges. As soon as the module detects a falling edge on a digital input, the falling edge counter for the affected digital input is incremented by 1.				
RESET COUNTERS	ASCII WRITE COMMAND	#RC <CR> Result: #OK<CR>	ASCII	NO
	TX	#1,RC<CR>		
	RX	N/A		
Resets all internal counters for digital inputs and events on this digital inputs to 0.				
DIGITAL INPUTS EVENTS				
EVENTS ON	ASCII WRITE COMMAND	#EVTON<CR> Result: #OK<CR>	ASCII	NO
	TX	#1,EVTON<CR>		
	RX	#1,OK<CR>		
Activates event sending of changes on digital inputs				
Whenever a change is detected on the digital inputs, the IO module sends immediately #<BusAdr>,EVT:DIS:<AlIDISasDec>,<AlIDISasHex> <CR>				
EVENTS OFF	ASCII WRITE COMMAND	#EVTOFF<CR> Result: #OK<CR>	ASCII	NO
	TX	#1,EVTOFF<CR>		
	RX	#1,OK<CR>		
Deactivates event sending of changes on digital inputs				
Whenever a change is detected on the digital inputs, the IO module sends immediately #<BusAdr>,EVT:DIS:<AlIDISasDec>,<AlIDISasHex> <CR>				

Command NAME	ASCII command type	ASCII command structure	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
ASCII COMMANDS						
DIGITAL OUTPUTS						
UPDATE DIGITAL INPUTS AND OUTPUTS	ASCII WRITE COMMAND	#UDIOS:<OutAllDOS> <CR> Result: #UDIOS:<InAllDISDec>,<InAllDISHex> <CR>			ASCII	YES
	DO1	0:OFF				
	DO2	0:OFF				
	DO3	0:OFF				
	DO4	0:OFF				
	DO5	0:OFF				
	DO6	0:OFF				
	DO7	0:OFF				
	DO8	0:OFF				
	DO9	0:OFF				
	DO10	0:OFF				
	DO11	0:OFF				
	DO12	0:OFF				
	DO13	0:OFF				
	DO14	0:OFF				
	DO15	0:OFF				
	DO16	0:OFF				
	DO17	0:OFF				
	DO18	0:OFF				
	DO19	0:OFF				
	DO20	0:OFF				
	DO21	0:OFF				
	DO22	0:OFF				
	DO23	0:OFF				
	DO24	0:OFF				
	DO25	0:OFF				
	DO26	0:OFF				
	DO27	0:OFF				
	DO28	0:OFF				
	DO29	0:OFF				
	DO30	0:OFF				
	TX	#1,UDIOS:0<CR>				
	RX	#255,UDIOS:0,0xFFFFFFFF<CR>				

		Actual status of digital inputs:1111.1111.1111.1111.1111.1111.1111.1111		
Sets all digital outputs to the new state OutAllDOS and gives back the current status of all digital inputs InAllDIS as decimal and hexadecimal value OutAllDOS: The new state for all digital outputs Bit 0: State of DO1 (=0:OFF, =1:ON) Bit 1: State of DO2 (=0:OFF, =1:ON) Bit 2: State of DO3 (=0:OFF, =1:ON) ... Bit 27: State of DO28 (=0:OFF, =1:ON) Bit 28: State of DO29 (=0:OFF, =1:ON) Bit 29: State of DO30 (=0:OFF, =1:ON) InAllDIS: The current state for all digital inputs Bit 0: State of DI1 (=0:OFF, =1:ON) Bit 1: State of DI2 (=0:OFF, =1:ON) Bit 2: State of DI3 (=0:OFF, =1:ON) ... Bit 29: State of DI30 (=0:OFF, =1:ON) Bit 30: State of DI31 (=0:OFF, =1:ON) Bit 31: State of DI32 (=0:OFF, =1:ON)				
SET DIGITAL OUTPUTS	ASCII WRITE COMMAND	#SDOS:<OutAllDOS> <CR> Result: #OK<CR>	ASCII	YES
	DO1	0:OFF		
	DO2	0:OFF		
	DO3	0:OFF		
	DO4	0:OFF		
	DO5	0:OFF		
	DO6	0:OFF		
	DO7	0:OFF		
	DO8	0:OFF		
	DO9	0:OFF		
	DO10	0:OFF		
	DO11	0:OFF		
	DO12	0:OFF		
	DO13	0:OFF		
	DO14	0:OFF		
	DO15	0:OFF		
	DO16	0:OFF		
	DO17	0:OFF		
	DO18	0:OFF		
	DO19	0:OFF		
	DO20	0:OFF		
	DO21	0:OFF		
	DO22	0:OFF		
	DO23	0:OFF		

	DO24	0:OFF		
	DO25	0:OFF		
	DO26	0:OFF		
	DO27	0:OFF		
	DO28	0:OFF		
	DO29	0:OFF		
	DO30	0:OFF		
	TX	#1,SDOS:0<CR>		
	RX	#255,OK<CR>		
Sets all digital outputs to the new state OutAllDOS The new state for all digital outputs Bit 0: State of DO1 (=0:OFF, =1:ON) Bit 1: State of DO2 (=0:OFF, =1:ON) Bit 2: State of DO3 (=0:OFF, =1:ON) ... Bit 27: State of DO28 (=0:OFF, =1:ON) Bit 28: State of DO29 (=0:OFF, =1:ON) Bit 29: State of DO30 (=0:OFF, =1:ON)				
SET DIGITAL OUTPUT DOx	ASCII WRITE COMMAND	#SDO<DONR>:<Out> <CR> Result: #OK<CR>	ASCII	NO
	DONR	2		
	DOx	0:OFF		
	TX	#1,SDO2:0<CR>		
	RX	N/A		
<DONR>: 1=DO1..30=DO30				
Sets the new state for digital output DOx. The state is defined with <Out>. Out The new state of the digital output DOx: =0: digital output is OFF =1: digital output is ON				
GET DIGITAL OUTPUTS	ASCII READ COMMAND	#GDOS<CR> Result: #GDOS:<DOSDec>,<DOSHex> <CR>	ASCII	
	TX	#1,GDOS<CR>		
	RX	#1,GDOS:536870912,0x20000000<CR>		
		Actual status of digital outputs:10.0000.0000.0000.0000.0000.0000		

Returns the actual state of the digital outputs as decimal number and as hexadecimal number. DOSDec, DOSHex The current state of the digital outputs: Bit 0: State of DO1 (=0:OFF, =1:ON) Bit 1: State of DO2 (=0:OFF, =1:ON) Bit 2: State of DO3 (=0:OFF, =1:ON) ... Bit 27: State of DO28 (=0:OFF, =1:ON) Bit 28: State of DO29 (=0:OFF, =1:ON) Bit 29: State of DO30 (=0:OFF, =1:ON)				
GET DIGITAL OUTPUT DOx	ASCII READ COMMAND	#GDO<DONR> <CR> Result: #GDO<DONR>:<DOxDec>,<DOxHex> <CR>	ASCII	
	DONR	2		
	TX	#1,GDO2<CR>		
	RX	#1,GDO2:0,0x0<CR>		
		Actual status of digital output DO2:0=OFF		
Returns the actual state of the digital output DOx as decimal number and as hexadecimal number. DOxDec, DOxHex The current state of the digital output DOx: =0: relay output is OFF =1: relay output is ON				
DIGITAL OUTPUTS: PULSE OUTPUT				
PULSE DOx	ASCII WRITE COMMAND	#PDO<DONR>:<Time> <CR> Result: #OK<CR>	ASCII	YES
	DONR	2		
	TIME	200		
	TX	#1,PDO2:200<CR>		
	RX	#255,OK<CR>		
<DONR>: 1=DO1..30=DO30				
<Time>: 0..65535*100ms				
This command switches the digital output DOx on for the pulse duration <PulseTimeIn100ms>*100ms. PulseTimeIn100ms: A duration in 100ms units. The corresponding digital output is switched on for this time period.				
GET PULSE TIMER DOx	ASCII READ COMMAND	#GPT<DONR> <CR> Result: #GPT:<TimeDec>,<TimeHex> <CR>	ASCII	
	DONR	2		
	TX	#1,GPT2<CR>		
	RX	#1,GPT2:0,0x0<CR>		
		Actual pulse time for DO2:0,0s		
<DONR>: 1=DO1..30=DO30				
Returns the remaining timer value of the pulse for digital output DOx in ms. PulseTimeInMSDec, PulseTimeInMSHex The remaining time of the pulse in Milliseconds				

Command NAME	ASCII command type	ASCII command structure	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
ASCII COMMANDS						
DIGITAL OUTPUTS						
DIGITAL OUTPUTS: ENABLE OPEN WIRE DETECTION WHILE ON						
SET DIGITAL OUTPUTS	ASCII	#SDOEOWDONS:<OpenWireDOS> <CR>			ASCII	YES
ENABLE OPEN WIRE	WRITE	Result:				
DETECTION WHILE ON	COMMAND	#OK<CR>				
	DO1	0:OFF				
	DO2	0:OFF				
	DO3	0:OFF				
	DO4	0:OFF				
	DO5	0:OFF				
	DO6	0:OFF				
	DO7	0:OFF				
	DO8	0:OFF				
	DO9	0:OFF				
	DO10	0:OFF				
	DO11	0:OFF				
	DO12	0:OFF				
	DO13	0:OFF				
	DO14	0:OFF				
	DO15	0:OFF				
	DO16	0:OFF				
	DO17	0:OFF				
	DO18	0:OFF				
	DO19	0:OFF				
	DO20	0:OFF				
	DO21	0:OFF				
	DO22	0:OFF				
	DO23	0:OFF				
	DO24	0:OFF				
	DO25	0:OFF				
	DO26	0:OFF				
	DO27	0:OFF				
	DO28	0:OFF				
	DO29	0:OFF				
	DO30	0:OFF				
	TX	#1,SDOEOWDONS:0<CR>				

	RX	N/A		
Sets the open wire mode for all digital outputs to the new mode OpenWireDOS. This enables the diagnostic of open wire while the digital output is ON. The new state for all digital outputs Bit 0: New mode for DO1 (=0:DISABLED, =1:ENABLED) Bit 1: New mode for DO2 (=0:DISABLED, =1:ENABLED) ... Bit 28: New mode for DO29 (=0:DISABLED, =1:ENABLED) Bit 29: New mode for DO30 (=0:DISABLED, =1:ENABLED)				
SET DIGITAL OUTPUT ENABLE OPEN WIRE DETECTION WHILE ON	ASCII WRITE COMMAND	#SDOEOWDON<DONR>:<OpenWireDOx> <CR> Result: #OK<CR>	ASCII	YES
	DONR	2		
	DOx	0:DISABLE		
	TX	#1,SDOEOWDON2:0<CR>		
	RX	N/A		
<DONR>: 1=DO1..30=DO30				
<OpenWireDOx>: 0=DISABLE..1=ENABLE				
Sets the open wire mode for digital output DOx to the new mode OpenWireDOx. This enables the diagnostic of open wire while the digital output is ON. The new mode of the digital output DOx: =0: diagnostic mode for digital output is DISABLED =1: diagnostic mode for digital output is ENABLED				
GET DIGITAL OUTPUTS ENABLE OPEN WIRE DETECTION WHILE ON	ASCII READ COMMAND	#GDOEOWDONS<CR> Result: #GDOEOWDONS:<OpenWireDOSDec>,<OpenWireDOSHex> <CR>	ASCII	
	TX	#1,GDOEOWDONS<CR>		
	RX	#1,GDOEOWDONS:0,0x0<CR>		
		Actual mode for open wire diagnostic while ON of digital outputs:		
		DO1-DO30:00.0000.0000.0000.0000.0000.0000		
Returns the actual mode for open wire diagnostic while digital output is ON as decimal number and as hexadecimal number. OpenWireDOSDec, OpenWireDOSHex The current mode for open wire diagnostic while ON of the digital outputs: Bit 0: Open wire diagnostic mode of DO1 (=0:DISABLED, =1:ENABLED) Bit 1: Open wire diagnostic mode of DO2 (=0:DISABLED, =1:ENABLED) ... Bit 28: Open wire diagnostic mode of DO29 (=0:DISABLED, =1:ENABLED) Bit 29: Open wire diagnostic mode of DO30 (=0:DISABLED, =1:ENABLED)				
GET DIGITAL OUTPUT ENABLE OPEN WIRE DETECTION WHILE ON	ASCII READ COMMAND	#GDOEOWDON<DONR> <CR> Result: #GDOEOWDON<DONR>:<OpenWireDOxDec>,<OpenWireDOxHex> <CR>	ASCII	
	DONR	2		
	TX	#1,GDOEOWDON2<CR>		
	RX	#1,GDOEOWDON2:0,0x0<CR>		
		Actual open wire diagnostic mode while ON of digital output DO2:0=DISABLED		
<DONR>: 1=DO1..30=DO30				

Returns the actual open wire diagnostic mode while ON of the digital output DOx as decimal number and as hexadecimal number.
OpenWireDOxDec, OpenWireDOxHex
The current diagnostic mode of the digital output DOx:
=0: open wire diagnostic mode for digital output is DISABLED
=1: open wire diagnostic mode for digital output is ENABLED

DIGITAL OUTPUTS: ENABLE OPEN WIRE DETECTION WHILE OFF

SET DIGITAL OUTPUTS ENABLE OPEN WIRE DETECTION WHILE OFF	ASCII WRITE COMMAND	#SDOEOWDOFFS:<OpenWireDOS> <CR> Result: #OK<CR>	ASCII	YES
	DO1	0:OFF		
	DO2	0:OFF		
	DO3	0:OFF		
	DO4	0:OFF		
	DO5	0:OFF		
	DO6	0:OFF		
	DO7	0:OFF		
	DO8	0:OFF		
	DO9	0:OFF		
	DO10	0:OFF		
	DO11	0:OFF		
	DO12	0:OFF		
	DO13	0:OFF		
	DO14	0:OFF		
	DO15	0:OFF		
	DO16	0:OFF		
	DO17	0:OFF		
	DO18	0:OFF		
	DO19	0:OFF		
	DO20	0:OFF		
	DO21	0:OFF		
	DO22	0:OFF		
	DO23	0:OFF		
	DO24	0:OFF		
	DO25	0:OFF		
	DO26	0:OFF		
	DO27	0:OFF		
	DO28	0:OFF		
	DO29	0:OFF		
	DO30	0:OFF		
	TX	#1,SDOEOWDOFFS:0<CR>		
	RX	N/A		

Sets the open wire mode for all digital outputs to the new mode OpenWireDOS. This enables the diagnostic of open wire while the digital output is OFF.

The new state for all digital outputs

Bit 0: New mode for DO1 (=0:DISABLED, =1:ENABLED)

Bit 1: New mode for DO2 (=0:DISABLED, =1:ENABLED)

...

Bit 28: New mode for DO29 (=0:DISABLED, =1:ENABLED)

Bit 29: New mode for DO30 (=0:DISABLED, =1:ENABLED)

SET DIGITAL OUTPUT ENABLE OPEN WIRE DETECTION WHILE OFF	ASCII WRITE COMMAND	#SDOEOWDOFF<DONR>:<OpenWireDOx> <CR> Result: #OK<CR>	ASCII	YES
	DONR	2		
	DOx	0:DISABLE		
	TX	#1,SDOEOWDOFF2:0<CR>		
	RX	N/A		

<DONR>: 1=DO1..30=DO30

<OpenWireDOx>: 0=DISABLE..1=ENABLE

Sets the open wire mode for digital output DOx to the new mode OpenWireDOx. This enables the diagnostic of open wire while the digital output is OFF.

The new mode of the digital output DOx:

=0: diagnostic mode for digital output is DISABLED

=1: diagnostic mode for digital output is ENABLED

GET DIGITAL OUTPUTS ENABLE OPEN WIRE DETECTION WHILE OFF	ASCII READ COMMAND	#GDOEOWDOFFS<CR> Result: #GDOEOWDOFFS:<OpenWireDOSDec>,<OpenWireDOSHex> <CR>	ASCII	
	TX	#1,GDOEOWDOFFS<CR>		
	RX	#1,GDOEOWDOFFS:0,0x0<CR>		
		Actual mode for open wire diagnostic while OFF of digital outputs:		
		DO1-DO30:00.0000.0000.0000.0000.0000.0000		

Returns the actual mode for open wire diagnostic while digital output is OFF as decimal number and as hexadecimal number.

OpenWireDOSDec, OpenWireDOSHex

The current mode for open wire diagnostic while OFF of the digital outputs:

Bit 0: Open wire diagnostic mode of DO1 (=0:DISABLED, =1:ENABLED)

Bit 1: Open wire diagnostic mode of DO2 (=0:DISABLED, =1:ENABLED)

...

Bit 28: Open wire diagnostic mode of DO29 (=0:DISABLED, =1:ENABLED)

Bit 29: Open wire diagnostic mode of DO30 (=0:DISABLED, =1:ENABLED)

GET DIGITAL OUTPUT ENABLE OPEN WIRE DETECTION WHILE OFF	ASCII READ COMMAND	#GDOEOWDOFF<DONR> <CR> Result: #GDOEOWDOFF<DONR>:<OpenWireDOxDec>,<OpenWireDOxHex> <CR>	ASCII	
	DONR	2		
	TX	#1,GDOEOWDOFF2<CR>		
	RX	#1,GDOEOWDOFF2:0,0x0<CR>		
		Actual open wire diagnostic mode while OFF of digital output DO2:0=DISABLED		

<DONR>: 1=DO1..30=DO30

Returns the actual open wire diagnostic mode while OFF of the digital output DOx as decimal number and as hexadecimal number.
OpenWireDOxDec, OpenWireDOxHex
The current diagnostic mode of the digital output DOx:
=0: open wire diagnostic mode for digital output is DISABLED
=1: open wire diagnostic mode for digital output is ENABLED

DIGITAL OUTPUTS: ENABLE SHORTCUT TO VDD DETECTION WHILE OFF

SET DIGITAL OUTPUTS ENABLE SHORTCUT TO VDD DETECTION WHILE OFF	ASCII WRITE COMMAND	#SDOESVDDS:<ShortCutDOS><CR> Result: #OK<CR>	ASCII	YES
	DO1	0:OFF		
	DO2	0:OFF		
	DO3	0:OFF		
	DO4	0:OFF		
	DO5	0:OFF		
	DO6	0:OFF		
	DO7	0:OFF		
	DO8	0:OFF		
	DO9	0:OFF		
	DO10	0:OFF		
	DO11	0:OFF		
	DO12	0:OFF		
	DO13	0:OFF		
	DO14	0:OFF		
	DO15	0:OFF		
	DO16	0:OFF		
	DO17	0:OFF		
	DO18	0:OFF		
	DO19	0:OFF		
	DO20	0:OFF		
	DO21	0:OFF		
	DO22	0:OFF		
	DO23	0:OFF		
	DO24	0:OFF		
	DO25	0:OFF		
	DO26	0:OFF		
	DO27	0:OFF		
	DO28	0:OFF		
	DO29	0:OFF		
	DO30	0:OFF		
	TX	#1,SDOESVDDS:0<CR>		
	RX	N/A		

Sets the shortcut to VDD detection mode for all digital outputs to the new mode ShortCutDOS. This enables the diagnostic of shortcut to VDD while the digital output is OFF.

The new state for all digital outputs

Bit 0: New mode for DO1 (=0:DISABLED, =1:ENABLED)

Bit 1: New mode for DO2 (=0:DISABLED, =1:ENABLED)

...

Bit 28: New mode for DO29 (=0:DISABLED, =1:ENABLED)

Bit 29: New mode for DO30 (=0:DISABLED, =1:ENABLED)

SET DIGITAL OUTPUT ENABLE SHORTCUT TO VDD DETECTION WHILE OFF	ASCII WRITE COMMAND	#SDOESVDD<DONR>:<ShortCutDOx><CR> Result: #OK<CR>	ASCII	YES
	DONR	2		
	DOx	0:DISABLE		
	TX	#1,SDOESVDD2:0<CR>		
	RX	N/A		

<DONR>: 1=DO1..30=DO30

<ShortCutDOx>: 0=DISABLE..1=ENABLE

Sets the shortcut to VDD mode for digital output DOx to the new mode ShortCutDOx. This enables the diagnostic of shortcut to VDD while the digital output is OFF.

The new mode of the digital output DOx:

=0: diagnostic mode for digital output is DISABLED

=1: diagnostic mode for digital output is ENABLED

GET DIGITAL OUTPUTS ENABLE SHORT CUT TO VDD DETECTION WHILE OFF	ASCII READ COMMAND	#GDOESVDDS<CR> Result: #GDOESDDS:<ShortCutDOSDec>,<ShortCutDOSHex><CR>	ASCII	
	TX	#1,GDOESVDDS<CR>		
	RX	#1,GDOESVDDS:0,0x0<CR>		
		Actual mode for shortcut to VDD diagnostic while OFF of digital outputs:		
		DO1-DO30:00.0000.0000.0000.0000.0000.0000.0000		

Returns the actual mode for shortcut to VDD diagnostic while digital output is OFF as decimal number and as hexadecimal number.

ShortCutDOSDec, ShortCutDOSHex

The current mode for shortcut diagnostic while OFF of the digital outputs:

Bit 0: Open wire diagnostic mode of DO1 (=0:DISABLED, =1:ENABLED)

Bit 1: Open wire diagnostic mode of DO2 (=0:DISABLED, =1:ENABLED)

...

Bit 28: Open wire diagnostic mode of DO29 (=0:DISABLED, =1:ENABLED)

Bit 29: Open wire diagnostic mode of DO30 (=0:DISABLED, =1:ENABLED)

GET DIGITAL OUTPUT ENABLE SHORT CUT TO VDD DETECTION WHILE OFF	ASCII READ COMMAND	#GDOESVDD<DONR> <CR> Result: #GDOESVDD<DONR>:<ShortCutDOxDec>,<ShortCutDOxHex> <CR>	ASCII	
	DONR	2		
	TX	#1,GDOESVDD2<CR>		
	RX	#1,GDOESVDD2:0,0x0<CR>		
		Actual shortcut to VDD diagnostic mode while OFF of digital output DO2:0=DISABLED		

<DONR>: 1=DO1..30=DO30

Returns the actual short cut to VDD diagnostic mode while OFF of the digital output DOx as decimal number and as hexadecimal number.
ShortCutDOxDec, ShortCutDOxHex
The current diagnostic mode of the digital output DOx:
=0: open wire diagnostic mode for digital output is DISABLED
=1: open wire diagnostic mode for digital output is ENABLED

DIGITAL OUTPUTS: SPI STATUS

GET SPI STATUS DIGITAL OUTPUT GROUPS	ASCII READ COMMAND	#GSSDOGS<CR> Result: #GSSDOGS:<SPIDOGSDec>,<SPIDOGSHex> <CR>	ASCII	
	TX	#1,GSSDOGS<CR>		
	RX	#1,GSSDOGS:0,0x0<CR>		
		Actual SPI status of digital output groups:0000		

digital output group #1, chip #1:DO1-DO8
digital output group #2, chip #2:DO9-DO15
digital output group #3, chip #3:DO16-DO23
digital output group #4, chip #4:DO24-DO30

Returns the actual SPI communication state of the corresponding output group as decimal number and as hexadecimal number.
SPIDOGSDec,SPIDOGSHex
The current SPI communication state of the digital output group:
Bit 0: SPI communication state for digital output group #1 (=0:NO FAULT, =1:FAULT)
Bit 1: SPI communication state for digital output group #2 (=0:NO FAULT, =1:FAULT)
Bit 2: SPI communication state for digital output group #3 (=0:NO FAULT, =1:FAULT)
Bit 3: SPI communication state for digital output group #4 (=0:NO FAULT, =1:FAULT)

GET SPI STATUS DIGITAL OUTPUT GROUPx	ASCII READ COMMAND	#GSSDOG<DOGRP> <CR> Result: #GSSDOG<DOGRP>:<SPIDOGxDec>,<SPIDOGxHex> <CR>	ASCII	
	DOGRP	4		
	TX	#1,GSSDOG4<CR>		
	RX	#1,GSSDOG4:0,0x0<CR>		
		Actual SPI status of digital output group DOG4:0=NO FAULT		

<DOGRP>: 1=CHIP1..4=CHIP4

digital output group #1, chip #1:DO1-DO8
digital output group #2, chip #2:DO9-DO15
digital output group #3, chip #3:DO16-DO23
digital output group #4, chip #4:DO24-DO30

Returns the actual SPI communication state of the digital output group DOGRP as decimal number and as hexadecimal number.
SPIDOGxDec, SPIDOGxHex
The current SPI communication state of the digital output group DOGRP:
=0: SPI communication state for output group is OK (NO FAULT)
=1: SPI communication state for output group is FAULT

DIGITAL OUTPUTS: INTERRUPT STATUS

GET DIGITAL OUTPUTS INTERRUPT STATUS	ASCII READ COMMAND	#GDOINTS<CR> Result: #GDOINTS:<InterruptStatusDec>,<InterruptStatusHex> <CR>	ASCII	
	TX	#1,GDOINTS<CR>		
	RX	#1,GDOINTS:0,0x0<CR>		
		Actual interrupt status of all digital output groups:		

		CHIP #1:0000.0000		
		CHIP #2:0000.0000		
		CHIP #3:0000.0000		
		CHIP #4:0000.0000		
digital output group #1, chip #1:DO1-DO8 digital output group #2, chip #2:DO9-DO15 digital output group #3, chip #3:DO16-DO23 digital output group #4, chip #4:DO24-DO30				
Returns the actual interrupt state of all output groups as decimal number and as hexadecimal number. InterruptStatusDec,InterruptStatusHex: The current interrupt state of digital output group 1-4 (CHIP1-4): For each chip 8 bits are used: CHIP#1:Bits 0-7, CHIP#2:Bits 8-15, CHIP#3:Bits 16-23, CHIP#4:Bits 24-31 Bit 0: Overload detected (0=OK,1=FAULT) Bit 1: Current limit detected(0=OK,1=FAULT) Bit 2: Open wire while OFF detected (0=OK,1=FAULT) Bit 3: Open wire while ON detected (0=OK,1=FAULT) Bit 4: Short to VDD while ON detected (0=OK,1=FAULT) Bit 5: Thermal error detected-shutdown (0=OK,1=FAULT) Bit 6: Supply error detected (0=OK,1=FAULT) Bit 7: Communication error detected (0=OK,1=FAULT)				
GET DIGITAL OUTPUT GROUPx INTERRUPT STATUS	ASCII READ COMMAND	#GDOINT<DOGRP> <CR> Result: #GDOINT<DOGRP>:<InterruptStatusDec>,<InterruptStatusHex> <CR>	ASCII	
	DOGRP	2		
	TX	#1,GDOINT2<CR>		
	RX	#1,GDOINT2:0,0x0<CR>		
		Actual interrupt status of digital output group 2:0000.0000		
<DOGRP>: 1=CHIP1..4=CHIP4				
digital output group #1, chip #1:DO1-DO8 digital output group #2, chip #2:DO9-DO15 digital output group #3, chip #3:DO16-DO23 digital output group #4, chip #4:DO24-DO30				
Returns the actual interrupt state of the digital output group DOGRP as decimal number and as hexadecimal number. InterruptStatusDec, InterruptStatusHex Bit 0:Overload detected (0=OK,1=FAULT) Bit 1:Current limit detected(0=OK,1=FAULT) Bit 2:Open wire while OFF detected (0=OK,1=FAULT) Bit 3:Open wire while ON detected (0=OK,1=FAULT) Bit 4:Short to VDD while ON detected (0=OK,1=FAULT) Bit 5:Thermal error detected-shutdown (0=OK,1=FAULT) Bit 6:Supply error detected (0=OK,1=FAULT) Bit 7:Communication error detected (0=OK,1=FAULT)				
DIGITAL OUTPUTS: GLOBAL ERRORS				
GET DIGITAL OUTPUTS GLOBAL ERRORS	ASCII READ COMMAND	#GDOERRS<CR> Result: #GDOERRS:<GlobalErrorsDec>,<GlobalErrorsHex> <CR>	ASCII	
	TX	#1,GDOERRS<CR>		

	RX	#1,GDOERRS:0,0x0<CR>		
		Actual global errors of all digital output groups:		
		CHIP #1:0000.0000		
		CHIP #2:0000.0000		
		CHIP #3:0000.0000		
		CHIP #4:0000.0000		
digital output group #1, chip #1:DO1-DO8 digital output group #2, chip #2:DO9-DO15 digital output group #3, chip #3:DO16-DO23 digital output group #4, chip #4:DO24-DO30				
Returns the actual global error state of all output groups as decimal number and as hexadecimal number. GlobalErrorsDec,GlobalErrorsHex: The current global error of all digital output groups 1-4 (CHIP1-4) For each chip 8 bits are used: CHIP#1:Bits 0-7, CHIP#2:Bits 8-15, CHIP#3:Bits 16-23, CHIP#4:Bits 24-31 Bit 0: Internal under voltage detected (0=OK,1=FAULT) Bit 1: VA under voltage detected (<2.3V) (0=OK,1=FAULT) Bit 2: VDD not good detected (<17V) (0=OK,1=FAULT) Bit 3: VDD warning detected (<12V) (0=OK,1=FAULT) Bit 4: VDD under voltage detected (<8V) (0=OK,1=FAULT) Bit 5: Thermal shutdown (0=OK,1=FAULT) Bit 6: Synchronisation error detected (0=OK,1=FAULT) Bit 7: Watchdog error detected (0=OK,1=FAULT)				
GET DIGITAL OUTPUT GROUPx GLOBAL ERRORS	ASCII READ COMMAND	#GDOERR<DOGRP> <CR> Result: #GDOERR<DOGRP>:<GlobalErrorsDec>,<GlobalErrorsHex> <CR>	ASCII	
	DOGRP	2		
	TX	#1,GDOERR2<CR>		
	RX	#1,GDOERR2:0,0x0<CR>		
		Actual global errors of digital output group 2:0000.0000		
<DOGRP>: 1=CHIP1..4=CHIP4				
digital output group #1, chip #1:DO1-DO8 digital output group #2, chip #2:DO9-DO15 digital output group #3, chip #3:DO16-DO23 digital output group #4, chip #4:DO24-DO30				
Returns the actual interrupt state of the digital output group DOGRP as decimal number and as hexadecimal number. InterruptStatusDec, InterruptStatusHex Bit 0:Internal under voltage detected (0=OK,1=FAULT) Bit 1:VA under voltage detected (<2.3V) (0=OK,1=FAULT) Bit 2:VDD not good detected (<17V) (0=OK,1=FAULT) Bit 3:VDD warning detected (<12V) (0=OK,1=FAULT) Bit 4:VDD under voltage detected (<8V) (0=OK,1=FAULT) Bit 5:Thermal shutdown (0=OK,1=FAULT) Bit 6:Synchronisation error detected (0=OK,1=FAULT) Bit 7:Watchdog error detected (0=OK,1=FAULT)				
DIGITAL OUTPUTS: THERMAL OVERLOAD DETECTION				

GET DIGITAL OUTPUTS THERMAL OVERLOAD DETECTION	ASCII READ COMMAND	#GDOTOS<CR> Result: #GDOTOS:<StatusDOSDec>,<StatusDOSHex><CR>	ASCII	
	TX	#1,GDOTOS<CR>		
	RX	#1,GDOTOS:0,0x0<CR>		
		Actual thermal overload detection status of digital outputs:		
		DO1-DO30:00.0000.0000.0000.0000.0000.0000		

Returns the actual state of the thermal overload detection for all digital outputs as decimal number and as hexadecimal number.

StatusDOSDec, StatusDOSHex

The current detection state of the digital outputs:

Bit 0: Thermal overload detected on DO1 (=0:NO, =1:YES)

Bit 1: Thermal overload detected on DO2 (=0:NO, =1:YES)

...

Bit 28: Thermal overload detected on DO29 (=0:NO, =1:YES)

Bit 29: Thermal overload detected on DO30 (=0:NO, =1:YES)

GET DIGITAL OUTPUT DOx THERMAL OVERLOAD DETECTION	ASCII READ COMMAND	#GDOTO<DONR><CR> Result: #GDOTO<DONR>:<StatusDOxDec>,<StatusDOxHex><CR>	ASCII	
	DONR	2		
	TX	#1,GDOTO2<CR>		
	RX	#1,GDOTO2:0,0x0<CR>		
		Thermal overload detected on DO2:0=NO		

<DONR>: 1=DO1..30=DO30

Returns the actual state of the thermal overload detection for digital output DOx as decimal number and as hexadecimal number.

StatusDOxDec, StatusDOxHex

The current detection state for digital output DOx:

=0: digital output is OK

=1: FAULT detected on digital output

DIGITAL OUTPUTS: CURRENT LIMIT DETECTION

GET DIGITAL OUTPUTS CURRENT LIMIT DETECTION	ASCII READ COMMAND	#GDOCLS<CR> Result: #GDOCLS:<StatusDOSDec>,<StatusDOSHex><CR>	ASCII	
	TX	#1,GDOCLS<CR>		
	RX	#1,GDOCLS:0,0x0<CR>		
		Actual current limit detection status of digital outputs:		
		DO1-DO30:00.0000.0000.0000.0000.0000.0000		

Returns the actual state of the current limit detection for all digital outputs as decimal number and as hexadecimal number.

StatusDOSDec, StatusDOSHex

The current detection state of the digital outputs:

Bit 0: Current limit reached for DO1 (=0:NO, =1:YES)

Bit 1: Current limit reached for DO2 (=0:NO, =1:YES)

...

Bit 28: Current limit reached for DO29 (=0:NO, =1:YES)

Bit 29: Current limit reached for DO30 (=0:NO, =1:YES)

GET DIGITAL OUTPUT DOx CURRENT LIMIT DETECTION	ASCII READ COMMAND	#GDOCL<DONR><CR> Result: #GDOCL<DONR>:<StatusDOxDec>,<StatusDOxHex><CR>	ASCII	
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	DONR	2		
	TX	#1,GDOCL2<CR>		
	RX	#1,GDOCL2:0,0x0<CR>		
		Actual current limit detection status of DO2:0=OK		
<DONR>: 1=DO1..30=DO30				
Returns the actual state of the current limit detection for digital output DOx as decimal number and as hexadecimal number. StatusDOxDec, StatusDOxHex The current detection state for digital output DOx: =0: digital output is OK =1: FAULT detected on digital output				
DIGITAL OUTPUTS: OPEN WIRE DETECTION WHILE ON				
GET DIGITAL OUTPUTS OPEN WIRE FAULT DETECTION WHILE ON	ASCII READ COMMAND	#GDOOWFONS<CR> Result: #GDOOWFONS:<StatusDOSDec>,<StatusDOSHex><CR>	ASCII	
	TX	#1,GDOOWFONS<CR>		
	RX	#1,GDOOWFONS:0,0x0<CR>		
		Actual open wire fault detection status while ON of digital outputs:		
		DO1-DO30:00.0000.0000.0000.0000.0000.0000		
Returns the actual state of the open wire fault detection while ON for all digital outputs as decimal number and as hexadecimal number. StatusDOSDec, StatusDOSHex The current detection state of the digital outputs: Bit 0: State of DO1 (=0:OK, =1:FAULT) Bit 1: State of DO2 (=0:OK, =1:FAULT) ... Bit 28: State of DO29 (=0:OK, =1:FAULT) Bit 29: State of DO30 (=0:OK, =1:FAULT)				
GET DIGITAL OUTPUT DOx OPEN WIRE FAULT DETECTION WHILE ON	ASCII READ COMMAND	#GDOOWFON<DONR><CR> Result: #GDOOWFON<DONR>:<StatusDOxDec>,<StatusDOxHex><CR>	ASCII	
	DONR	2		
	TX	#1,GDOOWFON2<CR>		
	RX	#1,GDOOWFON2:0,0x0<CR>		
		Actual open wire fault detection status while ON of DO2:0=OK		
<DONR>: 1=DO1..30=DO30				
Returns the actual state of the open wire fault detection while ON for digital output DOx as decimal number and as hexadecimal number. StatusDOxDec, StatusDOxHex The current detection state for digital output DOx: =0: digital output is OK =1: FAULT detected on digital output				
DIGITAL OUTPUTS: OPEN WIRE DETECTION WHILE OFF				
GET DIGITAL OUTPUTS OPEN WIRE FAULT DETECTION WHILE OFF	ASCII READ COMMAND	#GDOOWFOFFS<CR> Result: #GDOOWFOFFS:<StatusDOSDec>,<StatusDOSHex><CR>	ASCII	
	TX	#1,GDOOWFOFFS<CR>		
	RX	#1,GDOOWFOFFS:0,0x0<CR>		
		Actual open wire fault detection status while OFF of digital outputs:		
		DO1-DO30:00.0000.0000.0000.0000.0000.0000		

Returns the actual state of the open wire fault detection while OFF for all digital outputs as decimal number and as hexadecimal number. StatusDOSDec, StatusDOSHex The current detection state of the digital outputs: Bit 0: State of DO1 (=0:OK, =1:FAULT) Bit 1: State of DO2 (=0:OK, =1:FAULT) ... Bit 28: State of DO29 (=0:OK, =1:FAULT) Bit 29: State of DO30 (=0:OK, =1:FAULT)				
GET DIGITAL OUTPUT DOx OPEN WIRE FAULT DETECTION WHILE OFF	ASCII READ COMMAND	#GDOOWFOFF<DONR> <CR> Result: #GDOOWFOFF<DONR>:<StatusDOxDec>,<StatusDOxHex> <CR>	ASCII	
	DONR	2		
	TX	#1,GDOOWFOFF2<CR>		
	RX	#1,GDOOWFOFF2:0,0x0<CR>		
		Actual open wire fault detection status while OFF of DO2:0=OK		
<DONR>: 1=DO1..30=DO30				
Returns the actual state of the open wire fault detection while OFF for digital output DOx as decimal number and as hexadecimal number. StatusDOxDec, StatusDOxHex The current detection state for digital output DOx: =0: digital output is OK =1: FAULT detected on digital output				
DIGITAL OUTPUTS: SHORTCUT TO VDD DETECTION WHILE OFF				
GET DIGITAL OUTPUTS SHORTCUT TO VDD FAULT DETECTION WHILE OFF	ASCII READ COMMAND	#GDOSVDDS<CR> Result: #GDOSVDDS:<StatusDOSDec>,<StatusDOSHex> <CR>	ASCII	
	TX	#1,GDOSVDDS<CR>		
	RX	#1,GDOSVDDS:0,0x0<CR>		
		Actual shortcut to VDD fault detection status while OFF of digital outputs:		
		DO1-DO30:00.0000.0000.0000.0000.0000.0000.0000		
Returns the actual state of the shortcut to VDD fault detection while OFF for all digital outputs as decimal number and as hexadecimal number. StatusDOSDec, StatusDOSHex The current detection state of the digital outputs: Bit 0: State of DO1 (=0:OK, =1:FAULT) Bit 1: State of DO2 (=0:OK, =1:FAULT) ... Bit 28: State of DO29 (=0:OK, =1:FAULT) Bit 29: State of DO30 (=0:OK, =1:FAULT)				
GET DIGITAL OUTPUT DOx SHORTCUT TO VDD FAULT DETECTION WHILE OFF	ASCII READ COMMAND	#GDOSVDD<DONR> <CR> Result: #GDOSVDD<DONR>:<StatusDOxDec>,<StatusDOxHex> <CR>	ASCII	
	DONR	2		
	TX	#1,GDOSVDD2<CR>		
	RX	#1,GDOSVDD2:0,0x0<CR>		
		Actual shortcut to VDD fault detection status while OFF of DO2:0=OK		
<DONR>: 1=DO1..30=DO30				

Returns the actual state of the shortcut to VDD fault detection while OFF for digital output DOx as decimal number and as hexadecimal number. StatusDOxDec, StatusDOxHex The current detection state for digital output DOx: =0: digital output is OK =1: FAULT detected on digital output				
GET DIGITAL OUTPUTS CHIPSET NAME	ASCII READ COMMAND	#GDOCHIPSET<CR> Result: #GDOCHIPSET:<ChipSetName>	ASCII	
	TX	#1,GDOCHIPSET<CR>		
	RX	#1,GDOCHIPSET:MAX14915<CR>		
		Actual name of chipset for digital outputs:MAX14915		
Returns the actual name of the chipset of the digital outputs				

Command NAME	ASCII command type	ASCII command structure	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
ASCII COMMANDS						
DIGITAL OUTPUTS						
INITIAL & WATCHDOG STATE FOR DIGITAL OUTPUTS						
SET INITIAL & WATCHDOG STATE FOR DIGITAL OUTPUTS	ASCII WRITE COMMAND	#SCDOS:<OutAllDOS> <CR> Result: #OK<CR>			ASCII	YES
	DO1	0:OFF				
	DO2	0:OFF				
	DO3	0:OFF				
	DO4	0:OFF				
	DO5	0:OFF				
	DO6	0:OFF				
	DO7	0:OFF				
	DO8	0:OFF				
	DO9	0:OFF				
	DO10	0:OFF				
	DO11	0:OFF				
	DO12	0:OFF				
	DO13	0:OFF				
	DO14	0:OFF				
	DO15	0:OFF				
	DO16	0:OFF				
	DO17	0:OFF				
	DO18	0:OFF				
	DO19	0:OFF				
	DO20	0:OFF				
	DO21	0:OFF				
	DO22	0:OFF				
	DO23	0:OFF				
	DO24	0:OFF				
	DO25	0:OFF				
	DO26	0:OFF				
	DO27	0:OFF				
	DO28	0:OFF				
	DO29	0:OFF				
	DO30	0:OFF				
	TX	#1,SCDOS:0<CR>				

	RX	#255,OK<CR>		
This command sets all digital outputs to a new state for controller restart and watchdog function. The state is saved in FRAM. This state is used after power on and after a communication watchdog timeout, if a watchdog time is configured. OutAllDOS The new state for the digital outputs: Bit 0: New state of DO1 (=0:OFF, =1:ON) Bit 1: New state of DO2 (=0:OFF, =1:ON) ... Bit 28: New state of DO29 (=0:OFF, =1:ON) Bit 29: New state of DO30 (=0:OFF, =1:ON)				
GET INITIAL & WATCHDOG STATE FOR DIGITAL OUTPUTS	ASCII READ COMMAND	#GCDOS<CR> Result: #GCDOS:<DOSDec>,<DOSHex><CR>	ASCII	
	TX	#1,GCDOS<CR>		
	RX	#1,GCDOS:0,0x0<CR>		
		Init & watchdog configuration for digital outputs:		
		DO1-DO30:00.0000.0000.0000.0000.0000.0000		
Returns the actual initial and watchdog state of the digital outputs as decimal number and as hexadecimal number. This state is used after power on and after a communication watchdog timeout, if a watchdog time is configured DOSDec, DOSHex The current state of the digital outputs: Bit 0: State of DO1 (=0:OFF, =1:ON) Bit 1: State of DO2 (=0:OFF, =1:ON) ... Bit 28: State of DO29 (=0:OFF, =1:ON) Bit 29: State of DO30 (=0:OFF, =1:ON)				
DIGITAL OUTPUTS: INIT & WATCHDOG ENABLE OPEN WIRE DETECTION WHILE ON				
SET CONFIG DIGITAL OUTPUTS ENABLE OPEN WIRE DETECTION WHILE ON	ASCII WRITE COMMAND	#SCDOEOWDONS:<OpenWireDOS><CR> Result: #OK<CR>	ASCII	YES
	DO1	1:ENABLE		
	DO2	1:ENABLE		
	DO3	1:ENABLE		
	DO4	1:ENABLE		
	DO5	1:ENABLE		
	DO6	1:ENABLE		
	DO7	1:ENABLE		
	DO8	1:ENABLE		
	DO9	1:ENABLE		
	DO10	1:ENABLE		
	DO11	1:ENABLE		
	DO12	1:ENABLE		
	DO13	1:ENABLE		
	DO14	1:ENABLE		

	DO15	1:ENABLE		
	DO16	1:ENABLE		
	DO17	1:ENABLE		
	DO18	1:ENABLE		
	DO19	1:ENABLE		
	DO20	1:ENABLE		
	DO21	1:ENABLE		
	DO22	1:ENABLE		
	DO23	1:ENABLE		
	DO24	1:ENABLE		
	DO25	1:ENABLE		
	DO26	1:ENABLE		
	DO27	1:ENABLE		
	DO28	1:ENABLE		
	DO29	1:ENABLE		
	DO30	1:ENABLE		
	TX	#1,SCDOEOWDONS:1073741823<CR>		
	RX	#255,OK<CR>		

Sets the open wire mode for all digital outputs to the new mode OpenWireDOS for init & watchdog. This enables the diagnostic of open wire while the digital output is ON.
This state is used after power on and after a communication watchdog timeout, if a watchdog time is configured

The new state for all digital outputs
Bit 0: New mode for DO1 (=0:DISABLED, =1:ENABLED)
Bit 1: New mode for DO2 (=0:DISABLED, =1:ENABLED)
...
Bit 28: New mode for DO29 (=0:DISABLED, =1:ENABLED)
Bit 29: New mode for DO30 (=0:DISABLED, =1:ENABLED)

GET CONFIG DIGITAL OUTPUTS ENABLE OPEN WIRE DETECTION WHILE ON	ASCII READ COMMAND	#GCDOEOWDONS<CR> Result: #GCDOEOWDONS:<OpenWireDOSDec>,<OpenWireDOSHex> <CR>	ASCII	
	TX	#1,GCDOEOWDONS<CR>		
	RX	#1,GCDOEOWDONS:0,0x0<CR>		
		Init & watchdog configuration for open wire diagnostic while ON of digital outputs:		
		DO1-DO30:00.0000.0000.0000.0000.0000.0000		

Returns the actual mode for open wire diagnostic while digital output is ON as decimal number and as hexadecimal number.
This values are used after power on of the module an after a watchdog event.
OpenWireDOSDec, OpenWireDOSHex
The current mode for open wire diagnostic while ON of the digital outputs:
Bit 0: Open wire diagnostic mode of DO1 (=0:DISABLED, =1:ENABLED)
Bit 1: Open wire diagnostic mode of DO2 (=0:DISABLED, =1:ENABLED)
...
Bit 28: Open wire diagnostic mode of DO29 (=0:DISABLED, =1:ENABLED)
Bit 29: Open wire diagnostic mode of DO30 (=0:DISABLED, =1:ENABLED)

DIGITAL OUTPUTS: INIT & WATCHDOG ENABLE OPEN WIRE DETECTION WHILE OFF

SET CONFIG DIGITAL OUTPUTS ENABLE OPEN WIRE DETECTION WHILE OFF	ASCII WRITE COMMAND	#SCDOEOWDOFFS:<OpenWireDOS><CR> Result: #OK<CR>	ASCII	YES
	DO1	1:ENABLE		
	DO2	1:ENABLE		
	DO3	1:ENABLE		
	DO4	1:ENABLE		
	DO5	1:ENABLE		
	DO6	1:ENABLE		
	DO7	1:ENABLE		
	DO8	1:ENABLE		
	DO9	1:ENABLE		
	DO10	1:ENABLE		
	DO11	1:ENABLE		
	DO12	1:ENABLE		
	DO13	1:ENABLE		
	DO14	1:ENABLE		
	DO15	1:ENABLE		
	DO16	1:ENABLE		
	DO17	1:ENABLE		
	DO18	1:ENABLE		
	DO19	1:ENABLE		
	DO20	1:ENABLE		
	DO21	1:ENABLE		
	DO22	1:ENABLE		
	DO23	1:ENABLE		
	DO24	1:ENABLE		
	DO25	1:ENABLE		
	DO26	1:ENABLE		
	DO27	1:ENABLE		
	DO28	1:ENABLE		
	DO29	1:ENABLE		
	DO30	1:ENABLE		
	TX	#1,SCDOEOWDOFFS:1073741823<CR>		
	RX	#255,OK<CR>		

Sets the open wire mode for all digital outputs to the new mode OpenWireDOS for init & watchdog. This enables the diagnostic of open wire while the digital output is OFF.
This state is used after power on and after a communication watchdog timeout, if a watchdog time is configured
The new state for all digital outputs
Bit 0: New mode for DO1 (=0:DISABLED, =1:ENABLED)
Bit 1: New mode for DO2 (=0:DISABLED, =1:ENABLED)
...
Bit 28: New mode for DO29 (=0:DISABLED, =1:ENABLED)
Bit 29: New mode for DO30 (=0:DISABLED, =1:ENABLED)

GET CONFIG DIGITAL OUTPUTS ENABLE OPEN WIRE DETECTION WHILE OFF	ASCII READ COMMAND	#GCDOEOWDOFFS<CR> Result: #GCDOEOWDOFFS:<OpenWireDOSDec>,<OpenWireDOSHex><CR>	ASCII	
	TX	#1,GCDOEOWDOFFS<CR>		
	RX	#1,GCDOEOWDOFFS:0,0x0<CR>		
		Init & watchdog configuration for open wire diagnostic while OFF of digital outputs:		
		DO1-DO30:00.0000.0000.0000.0000.0000.0000		
Returns the actual mode for open wire diagnostic while digital output is OFF as decimal number and as hexadecimal number. This values are used after power on of the module an after a watchdog event. OpenWireDOSDec, OpenWireDOSHex The current mode for open wire diagnostic while OFF of the digital outputs: Bit 0: Open wire diagnostic mode of DO1 (=0:DISABLED, =1:ENABLED) Bit 1: Open wire diagnostic mode of DO2 (=0:DISABLED, =1:ENABLED) ... Bit 28: Open wire diagnostic mode of DO29 (=0:DISABLED, =1:ENABLED) Bit 29: Open wire diagnostic mode of DO30 (=0:DISABLED, =1:ENABLED)				
DIGITAL OUTPUTS: INIT & WATCHDOG ENABLE SHORTCUT TO VDD DETECTION WHILE OFF				
SET CONFIG DIGITAL OUTPUTS ENABLE SHORTCUT TO VDD DETECTION WHILE OFF	ASCII WRITE COMMAND	#SCDOESVDDS:<ShortCutDOS> <CR> Result: #OK<CR>	ASCII	YES
	DO1	1:ENABLE		
	DO2	1:ENABLE		
	DO3	1:ENABLE		
	DO4	1:ENABLE		
	DO5	1:ENABLE		
	DO6	1:ENABLE		
	DO7	1:ENABLE		
	DO8	1:ENABLE		
	DO9	1:ENABLE		
	DO10	1:ENABLE		
	DO11	1:ENABLE		
	DO12	1:ENABLE		
	DO13	1:ENABLE		
	DO14	1:ENABLE		
	DO15	1:ENABLE		
	DO16	1:ENABLE		
	DO17	1:ENABLE		
	DO18	1:ENABLE		
	DO19	1:ENABLE		
	DO20	1:ENABLE		
	DO21	1:ENABLE		
	DO22	1:ENABLE		
	DO23	1:ENABLE		
	DO24	1:ENABLE		

	DO25	1:ENABLE		
	DO26	1:ENABLE		
	DO27	1:ENABLE		
	DO28	1:ENABLE		
	DO29	1:ENABLE		
	DO30	1:ENABLE		
	TX	#1,SCDOESVDDS:1073741823<CR>		
	RX	#255,OK<CR>		
Sets the shortcut to VDD detection mode for all digital outputs to the new mode ShortCutDOS for init & watchdog. This enables the diagnostic of shortcut to VDD while the digital output is OFF. This state is used after power on and after a communication watchdog timeout, if a watchdog time is configured The new state for all digital outputs Bit 0: New mode for DO1 (=0:DISABLED, =1:ENABLED) Bit 1: New mode for DO2 (=0:DISABLED, =1:ENABLED) ... Bit 28: New mode for DO29 (=0:DISABLED, =1:ENABLED) Bit 29: New mode for DO30 (=0:DISABLED, =1:ENABLED)				
GET CONFIG DIGITAL OUTPUTS ENABLE SHORT CUT TO VDD DETECTION WHILE OFF	ASCII READ COMMAND	#GCDOESVDDS<CR> Result: #GCDOESDDS:<ShortCutDOSDec>,<ShortCutDOSHex><CR>	ASCII	
	TX	#1,GCDOESVDDS<CR>		
	RX	#1,GCDOESVDDS:0,0x0<CR>		
		Init & watchdog configuration for shortcut to VDD diagnostic while OFF of digital outputs:		
		DO1-DO30:00.0000.0000.0000.0000.0000.0000		
Returns the actual mode for shortcut to VDD diagnostic while digital output is OFF as decimal number and as hexadecimal number. This values are used after power on of the module an after a watchdog event. ShortCutDOSDec, ShortCutDOSHex The current mode for shortcut diagnostic while OFF of the digital outputs: Bit 0: Open wire diagnostic mode of DO1 (=0:DISABLED, =1:ENABLED) Bit 1: Open wire diagnostic mode of DO2 (=0:DISABLED, =1:ENABLED) ... Bit 28: Open wire diagnostic mode of DO29 (=0:DISABLED, =1:ENABLED) Bit 29: Open wire diagnostic mode of DO30 (=0:DISABLED, =1:ENABLED)				

Register NAME Command NAME	MODBUS Register ASCII Command	Register VALUE ASCII Command	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
STATUS DIGITAL INPUTS						
DI1	1x00001 2x00001 I:0	0,0x00 B:00			BIT R/O	
		Actual state of DI1:0=OFF				
Current state of the digital input DIx =0:DI is OFF, =1:DI is ON						
DI2	1x00002 2x00002 I:1	0,0x00 B:00			BIT R/O	
		Actual state of DI2:0=OFF				
DI3	1x00003 2x00003 I:2	0,0x00 B:00			BIT R/O	
		Actual state of DI3:0=OFF				
DI4	1x00004 2x00004 I:3	0,0x00 B:00			BIT R/O	
		Actual state of DI4:0=OFF				
DI5	1x00005 2x00005 I:4	0,0x00 B:00			BIT R/O	
		Actual state of DI5:0=OFF				
DI6	1x00006 2x00006 I:5	0,0x00 B:00			BIT R/O	
		Actual state of DI6:0=OFF				
DI7	1x00007 2x00007 I:6	0,0x00 B:00			BIT R/O	
		Actual state of DI7:0=OFF				
DI8	1x00008 2x00008 I:7	0,0x00 B:00			BIT R/O	
		Actual state of DI8:0=OFF				
DI9	1x00009 2x00009 I:8	0,0x00 B:00			BIT R/O	
		Actual state of DI9:0=OFF				

DI10	1x00010 2x00010 I:9	0,0x00 B:00			BIT R/O	
		Actual state of DI10:0=OFF				
DI11	1x00011 2x00011 I:10	0,0x00 B:00			BIT R/O	
		Actual state of DI11:0=OFF				
DI12	1x00012 2x00012 I:11	0,0x00 B:00			BIT R/O	
		Actual state of DI12:0=OFF				
DI13	1x00013 2x00013 I:12	0,0x00 B:00			BIT R/O	
		Actual state of DI13:0=OFF				
DI14	1x00014 2x00014 I:13	0,0x00 B:00			BIT R/O	
		Actual state of DI14:0=OFF				
DI15	1x00015 2x00015 I:14	0,0x00 B:00			BIT R/O	
		Actual state of DI15:0=OFF				
DI16	1x00016 2x00016 I:15	0,0x00 B:00			BIT R/O	
		Actual state of DI16:0=OFF				
DI17	1x00017 2x00017 I:16	0,0x00 B:00			BIT R/O	
		Actual state of DI17:0=OFF				
DI18	1x00018 2x00018 I:17	0,0x00 B:00			BIT R/O	
		Actual state of DI18:0=OFF				
DI19	1x00019 2x00019 I:18	0,0x00 B:00			BIT R/O	
		Actual state of DI19:0=OFF				
DI20	1x00020 2x00020 I:19	0,0x00 B:00			BIT R/O	
		Actual state of DI20:0=OFF				

DI21	1x00021 2x00021 I:20	0,0x00 B:00			BIT R/O	
		Actual state of DI21:0=OFF				
DI22	1x00022 2x00022 I:21	0,0x00 B:00			BIT R/O	
		Actual state of DI22:0=OFF				
DI23	1x00023 2x00023 I:22	0,0x00 B:00			BIT R/O	
		Actual state of DI23:0=OFF				
DI24	1x00024 2x00024 I:23	0,0x00 B:00			BIT R/O	
		Actual state of DI24:0=OFF				
DI25	1x00025 2x00025 I:24	0,0x00 B:00			BIT R/O	
		Actual state of DI25:0=OFF				
DI26	1x00026 2x00026 I:25	0,0x00 B:00			BIT R/O	
		Actual state of DI26:0=OFF				
DI27	1x00027 2x00027 I:26	0,0x00 B:00			BIT R/O	
		Actual state of DI27:0=OFF				
DI28	1x00028 2x00028 I:27	0,0x00 B:00			BIT R/O	
		Actual state of DI28:0=OFF				
DI29	1x00029 2x00029 I:28	0,0x00 B:00			BIT R/O	
		Actual state of DI29:0=OFF				
DI30	1x00030 2x00030 I:29	0,0x00 B:00			BIT R/O	
		Actual state of DI30:0=OFF				
DI31	1x00031 2x00031 I:30	0,0x00 B:00			BIT R/O	
		Actual state of DI31:0=OFF				

DI32	1x00032 2x00032 I:31	0,0x00 B:00			BIT R/O		
		Actual state of DI32:0=OFF					
STATUS DIGITAL OUTPUTS							
DO1	1x00033 2x00033 I:32	0,0x00 B:00		1	BIT R/W	NO	
		Actual state of DO1:0=OFF		ENTER NEW STATE (0 or 1)			
Current state of the digital output DOx =0:DO is OFF, =1:DO is ON							
Writing on this register changes the state of the digital output							
DO2	1x00034 2x00034 I:33	0,0x00 B:00		0	BIT R/W	NO	
		Actual state of DO2:0=OFF		ENTER NEW STATE (0 or 1)			
DO3	1x00035 2x00035 I:34	0,0x00 B:00		0	BIT R/W	NO	
		Actual state of DO3:0=OFF		ENTER NEW STATE (0 or 1)			
DO4	1x00036 2x00036 I:35	0,0x00 B:00		0	BIT R/W	NO	
		Actual state of DO4:0=OFF		ENTER NEW STATE (0 or 1)			
DO5	1x00037 2x00037 I:36	0,0x00 B:00		0	BIT R/W	NO	
		Actual state of DO5:0=OFF		ENTER NEW STATE (0 or 1)			
DO6	1x00038 2x00038 I:37	0,0x00 B:00		0	BIT R/W	NO	
		Actual state of DO6:0=OFF		ENTER NEW STATE (0 or 1)			
DO7	1x00039 2x00039 I:38	0,0x00 B:00		0	BIT R/W	NO	
		Actual state of DO7:0=OFF		ENTER NEW STATE (0 or 1)			
DO8	1x00040 2x00040 I:39	0,0x00 B:00		0	BIT R/W	NO	
		Actual state of DO8:0=OFF		ENTER NEW STATE (0 or 1)			
DO9	1x00041 2x00041 I:40	0,0x00 B:00		0	BIT R/W	NO	
		Actual state of DO9:0=OFF		ENTER NEW STATE (0 or 1)			

DO10	1x00042 2x00042 I:41	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO10:0=OFF		ENTER NEW STATE (0 or 1)		
DO11	1x00043 2x00043 I:42	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO11:0=OFF		ENTER NEW STATE (0 or 1)		
DO12	1x00044 2x00044 I:43	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO12:0=OFF		ENTER NEW STATE (0 or 1)		
DO13	1x00045 2x00045 I:44	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO13:0=OFF		ENTER NEW STATE (0 or 1)		
DO14	1x00046 2x00046 I:45	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO14:0=OFF		ENTER NEW STATE (0 or 1)		
DO15	1x00047 2x00047 I:46	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO15:0=OFF		ENTER NEW STATE (0 or 1)		
DO16	1x00048 2x00048 I:47	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO16:0=OFF		ENTER NEW STATE (0 or 1)		
DO17	1x00049 2x00049 I:48	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO17:0=OFF		ENTER NEW STATE (0 or 1)		
DO18	1x00050 2x00050 I:49	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO18:0=OFF		ENTER NEW STATE (0 or 1)		
DO19	1x00051 2x00051 I:50	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO19:0=OFF		ENTER NEW STATE (0 or 1)		
DO20	1x00052 2x00052 I:51	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO20:0=OFF		ENTER NEW STATE (0 or 1)		

DO21	1x00053 2x00053 I:52	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO21:0=OFF		ENTER NEW STATE (0 or 1)		
DO22	1x00054 2x00054 I:53	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO22:0=OFF		ENTER NEW STATE (0 or 1)		
DO23	1x00055 2x00055 I:54	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO23:0=OFF		ENTER NEW STATE (0 or 1)		
DO24	1x00056 2x00056 I:55	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO24:0=OFF		ENTER NEW STATE (0 or 1)		
DO25	1x00057 2x00057 I:56	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO25:0=OFF		ENTER NEW STATE (0 or 1)		
DO26	1x00058 2x00058 I:57	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO26:0=OFF		ENTER NEW STATE (0 or 1)		
DO27	1x00059 2x00059 I:58	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO27:0=OFF		ENTER NEW STATE (0 or 1)		
DO28	1x00060 2x00060 I:59	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO28:0=OFF		ENTER NEW STATE (0 or 1)		
DO29	1x00061 2x00061 I:60	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO29:0=OFF		ENTER NEW STATE (0 or 1)		
DO30	1x00062 2x00062 I:61	1,0x01 B:01		0	BIT R/W	NO
		Actual state of DO30:1=ON		ENTER NEW STATE (0 or 1)		
DIGITAL OUTPUTS: ENABLE OPEN WIRE DETECTION ON						
ENABLE OPEN WIRE DETECTION ON DO1	1x00063 2x00063 I:62	0,0x00 B:00		1	BIT R/W	NO

		Actual setup of open wire detection for state ON of DO1:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
Enables/disabled detection of an open wire in DO state ON for the digital output DOx =0:Open wire detection is OFF, =1:Open wire detection is ON					
Writing on this register changes the state of the open wire detection for this output					
ENABLE OPEN WIRE DETECTION ON DO2	1x00064 2x00064 l:63	0,0x00 B:00		1	BIT R/W NO
		Actual setup of open wire detection for state ON of DO2:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO3	1x00065 2x00065 l:64	0,0x00 B:00		1	BIT R/W NO
		Actual setup of open wire detection for state ON of DO3:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO4	1x00066 2x00066 l:65	0,0x00 B:00		1	BIT R/W NO
		Actual setup of open wire detection for state ON of DO4:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO5	1x00067 2x00067 l:66	0,0x00 B:00		1	BIT R/W NO
		Actual setup of open wire detection for state ON of DO5:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO6	1x00068 2x00068 l:67	0,0x00 B:00		1	BIT R/W NO
		Actual setup of open wire detection for state ON of DO6:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO7	1x00069 2x00069 l:68	0,0x00 B:00		1	BIT R/W NO
		Actual setup of open wire detection for state ON of DO7:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO8	1x00070 2x00070 l:69	0,0x00 B:00		1	BIT R/W NO
		Actual setup of open wire detection for state ON of DO8:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO9	1x00071 2x00071 l:70	0,0x00 B:00		1	BIT R/W NO
		Actual setup of open wire detection for state ON of DO9:0=OFF	ENTER NEW SETUP MODE (0 or 1)		

ENABLE OPEN WIRE DETECTION ON DO10	1x00072 2x00072 I:71	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO10:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO11	1x00073 2x00073 I:72	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO11:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO12	1x00074 2x00074 I:73	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO12:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO13	1x00075 2x00075 I:74	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO13:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO14	1x00076 2x00076 I:75	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO14:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO15	1x00077 2x00077 I:76	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO15:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO16	1x00078 2x00078 I:77	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO16:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO17	1x00079 2x00079 I:78	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO17:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO18	1x00080 2x00080 I:79	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO18:0=OFF		ENTER NEW SETUP MODE (0 or 1)			

ENABLE OPEN WIRE DETECTION ON DO19	1x00081 2x00081 I:80	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO19:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO20	1x00082 2x00082 I:81	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO20:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO21	1x00083 2x00083 I:82	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO21:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO22	1x00084 2x00084 I:83	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO22:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO23	1x00085 2x00085 I:84	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO23:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO24	1x00086 2x00086 I:85	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO24:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO25	1x00087 2x00087 I:86	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO25:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO26	1x00088 2x00088 I:87	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO26:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO27	1x00089 2x00089 I:88	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO27:0=OFF		ENTER NEW SETUP MODE (0 or 1)			

ENABLE OPEN WIRE DETECTION ON DO28	1x00090 2x00090 I:89	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO28:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO29	1x00091 2x00091 I:90	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO29:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO30	1x00092 2x00092 I:91	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state ON of DO30:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
DIGITAL OUTPUTS: ENABLE OPEN WIRE DETECTION OFF							
ENABLE OPEN WIRE DETECTION OFF DO1	1x00093 2x00093 I:92	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO1:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
Enables/disabled detection of an open wire in DO state OFF for the digital output DOx =0:Open wire detection is OFF, =1:Open wire detection is ON							
Writing on this register changes the state of the open wire detection for this output							
ENABLE OPEN WIRE DETECTION OFF DO2	1x00094 2x00094 I:93	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO2:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO3	1x00095 2x00095 I:94	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO3:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO4	1x00096 2x00096 I:95	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO4:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO5	1x00097 2x00097 I:96	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO5:0=OFF		ENTER NEW SETUP MODE (0 or 1)			

ENABLE OPEN WIRE DETECTION OFF DO6	1x00098 2x00098 I:97	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO6:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO7	1x00099 2x00099 I:98	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO7:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO8	1x00100 2x00100 I:99	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO8:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO9	1x00101 2x00101 I:100	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO9:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO10	1x00102 2x00102 I:101	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO10:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO11	1x00103 2x00103 I:102	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO11:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO12	1x00104 2x00104 I:103	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO12:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO13	1x00105 2x00105 I:104	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO13:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO14	1x00106 2x00106 I:105	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO14:0=OFF		ENTER NEW SETUP MODE (0 or 1)			

ENABLE OPEN WIRE DETECTION OFF DO15	1x00107 2x00107 I:106	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO15:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO16	1x00108 2x00108 I:107	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO16:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO17	1x00109 2x00109 I:108	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO17:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO18	1x00110 2x00110 I:109	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO18:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO19	1x00111 2x00111 I:110	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO19:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO20	1x00112 2x00112 I:111	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO20:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO21	1x00113 2x00113 I:112	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO21:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO22	1x00114 2x00114 I:113	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO22:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO23	1x00115 2x00115 I:114	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO23:0=OFF		ENTER NEW SETUP MODE (0 or 1)			

ENABLE OPEN WIRE DETECTION OFF DO24	1x00116 2x00116 I:115	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO24:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO25	1x00117 2x00117 I:116	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO25:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO26	1x00118 2x00118 I:117	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO26:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO27	1x00119 2x00119 I:118	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO27:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO28	1x00120 2x00120 I:119	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO28:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO29	1x00121 2x00121 I:120	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO29:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO30	1x00122 2x00122 I:121	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO30:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
DIGITAL OUTPUTS: ENABLE SHORT TO VDD DETECTION							
ENABLE SHORT TO VDD DETECTION DO1	1x00123 2x00123 I:122	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO1:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
Enables/disabled detection of a shortcut to VDD in DO state OFF for the digital output DOx =0:Shortcut to VDD detection is OFF, =1:Shortcut to VDD detection is ON							
Writing on this register changes the state of the shortcut detection for this output							

ENABLE SHORT TO VDD DETECTION DO2	1x00124 2x00124 I:123	0,0x00 B:00		1	BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO2:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO3	1x00125 2x00125 I:124	0,0x00 B:00		1	BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO3:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO4	1x00126 2x00126 I:125	0,0x00 B:00		1	BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO4:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO5	1x00127 2x00127 I:126	0,0x00 B:00		1	BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO5:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO6	1x00128 2x00128 I:127	0,0x00 B:00		1	BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO6:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO7	1x00129 2x00129 I:128	0,0x00 B:00		1	BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO7:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO8	1x00130 2x00130 I:129	0,0x00 B:00		1	BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO8:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO9	1x00131 2x00131 I:130	0,0x00 B:00		1	BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO9:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO10	1x00132 2x00132 I:131	0,0x00 B:00		1	BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO10:0=OFF		ENTER NEW SETUP MODE (0 or 1)		

ENABLE SHORT TO VDD DETECTION DO11	1x00133 2x00133 I:132	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO11:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO12	1x00134 2x00134 I:133	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO12:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO13	1x00135 2x00135 I:134	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO13:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO14	1x00136 2x00136 I:135	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO14:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO15	1x00137 2x00137 I:136	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO15:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO16	1x00138 2x00138 I:137	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO16:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO17	1x00139 2x00139 I:138	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO17:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO18	1x00140 2x00140 I:139	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO18:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO19	1x00141 2x00141 I:140	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO19:0=OFF		ENTER NEW SETUP MODE (0 or 1)			

ENABLE SHORT TO VDD DETECTION DO20	1x00142 2x00142 I:141	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO20:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO21	1x00143 2x00143 I:142	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO21:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO22	1x00144 2x00144 I:143	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO22:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO23	1x00145 2x00145 I:144	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO23:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO24	1x00146 2x00146 I:145	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO24:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO25	1x00147 2x00147 I:146	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO25:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO26	1x00148 2x00148 I:147	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO26:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO27	1x00149 2x00149 I:148	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO27:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO28	1x00150 2x00150 I:149	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO28:0=OFF		ENTER NEW SETUP MODE (0 or 1)			

ENABLE SHORT TO VDD DETECTION DO29	1x00151 2x00151 I:150	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO29:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO30	1x00152 2x00152 I:151	0,0x00 B:00		1		BIT R/W	NO
		Actual setup of open wire detection for state OFF of DO30:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
DIGITAL OUTPUTS: OPEN WIRE DETECTION STATUS WHILE ON							
OPEN WIRE FAULT WHILE ON DO1	1x00153 2x00153 I:152	0,0x00 B:00				BIT R/O	
		Actual detection state of an open wire fault in state ON for DO1:0=OK					
The current detection state of an open wire in the output state ON for the digital output DOx =0:No fault, =1:Fault-open wire detected							
OPEN WIRE FAULT WHILE ON DO2	1x00154 2x00154 I:153	0,0x00 B:00				BIT R/O	
		Actual detection state of an open wire fault in state ON for DO2:0=OK					
OPEN WIRE FAULT WHILE ON DO3	1x00155 2x00155 I:154	0,0x00 B:00				BIT R/O	
		Actual detection state of an open wire fault in state ON for DO3:0=OK					
OPEN WIRE FAULT WHILE ON DO4	1x00156 2x00156 I:155	0,0x00 B:00				BIT R/O	
		Actual detection state of an open wire fault in state ON for DO4:0=OK					
OPEN WIRE FAULT WHILE ON DO5	1x00157 2x00157 I:156	0,0x00 B:00				BIT R/O	
		Actual detection state of an open wire fault in state ON for DO5:0=OK					
OPEN WIRE FAULT WHILE ON DO6	1x00158 2x00158 I:157	0,0x00 B:00				BIT R/O	
		Actual detection state of an open wire fault in state ON for DO6:0=OK					
OPEN WIRE FAULT WHILE ON DO7	1x00159 2x00159 I:158	0,0x00 B:00				BIT R/O	

		Actual detection state of an open wire fault in state ON for DO7:0=OK				
OPEN WIRE FAULT WHILE ON DO8	1x00160 2x00160 I:159	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO8:0=OK				
OPEN WIRE FAULT WHILE ON DO9	1x00161 2x00161 I:160	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO9:0=OK				
OPEN WIRE FAULT WHILE ON DO10	1x00162 2x00162 I:161	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO10:0=OK				
OPEN WIRE FAULT WHILE ON DO11	1x00163 2x00163 I:162	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO11:0=OK				
OPEN WIRE FAULT WHILE ON DO12	1x00164 2x00164 I:163	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO12:0=OK				
OPEN WIRE FAULT WHILE ON DO13	1x00165 2x00165 I:164	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO13:0=OK				
OPEN WIRE FAULT WHILE ON DO14	1x00166 2x00166 I:165	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO14:0=OK				
OPEN WIRE FAULT WHILE ON DO15	1x00167 2x00167 I:166	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO15:0=OK				
OPEN WIRE FAULT WHILE ON DO16	1x00168 2x00168 I:167	0,0x00 B:00			BIT R/O	

		Actual detection state of an open wire fault in state ON for DO16:0=OK				
OPEN WIRE FAULT WHILE ON DO17	1x00169 2x00169 I:168	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO17:0=OK				
OPEN WIRE FAULT WHILE ON DO18	1x00170 2x00170 I:169	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO18:0=OK				
OPEN WIRE FAULT WHILE ON DO19	1x00171 2x00171 I:170	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO19:0=OK				
OPEN WIRE FAULT WHILE ON DO20	1x00172 2x00172 I:171	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO20:0=OK				
OPEN WIRE FAULT WHILE ON DO21	1x00173 2x00173 I:172	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO21:0=OK				
OPEN WIRE FAULT WHILE ON DO22	1x00174 2x00174 I:173	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO22:0=OK				
OPEN WIRE FAULT WHILE ON DO23	1x00175 2x00175 I:174	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO23:0=OK				
OPEN WIRE FAULT WHILE ON DO24	1x00176 2x00176 I:175	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO24:0=OK				
OPEN WIRE FAULT WHILE ON DO25	1x00177 2x00177 I:176	0,0x00 B:00			BIT R/O	

		Actual detection state of an open wire fault in state ON for DO25:0=OK				
OPEN WIRE FAULT WHILE ON DO26	1x00178 2x00178 I:177	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO26:0=OK				
OPEN WIRE FAULT WHILE ON DO27	1x00179 2x00179 I:178	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO27:0=OK				
OPEN WIRE FAULT WHILE ON DO28	1x00180 2x00180 I:179	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO28:0=OK				
OPEN WIRE FAULT WHILE ON DO29	1x00181 2x00181 I:180	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO29:0=OK				
OPEN WIRE FAULT WHILE ON DO30	1x00182 2x00182 I:181	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state ON for DO30:0=OK				
DIGITAL OUTPUTS: OPEN WIRE DETECTION STATUS WHILE OFF						
OPEN WIRE FAULT WHILE OFF DO1	1x00183 2x00183 I:182	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO1:0=OK				
The current detection state of an open wire in the output state OFF for the digital output DOx =0:No fault, =1:Fault-open wire detected						
OPEN WIRE FAULT WHILE OFF DO2	1x00184 2x00184 I:183	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO2:0=OK				
OPEN WIRE FAULT WHILE OFF DO3	1x00185 2x00185 I:184	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO3:0=OK				

OPEN WIRE FAULT WHILE OFF DO4	1x00186 2x00186 I:185	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO4:0=OK				
OPEN WIRE FAULT WHILE OFF DO5	1x00187 2x00187 I:186	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO5:0=OK				
OPEN WIRE FAULT WHILE OFF DO6	1x00188 2x00188 I:187	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO6:0=OK				
OPEN WIRE FAULT WHILE OFF DO7	1x00189 2x00189 I:188	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO7:0=OK				
OPEN WIRE FAULT WHILE OFF DO8	1x00190 2x00190 I:189	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO8:0=OK				
OPEN WIRE FAULT WHILE OFF DO9	1x00191 2x00191 I:190	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO9:0=OK				
OPEN WIRE FAULT WHILE OFF DO10	1x00192 2x00192 I:191	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO10:0=OK				
OPEN WIRE FAULT WHILE OFF DO11	1x00193 2x00193 I:192	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO11:0=OK				
OPEN WIRE FAULT WHILE OFF DO12	1x00194 2x00194 I:193	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO12:0=OK				

OPEN WIRE FAULT WHILE OFF DO13	1x00195 2x00195 I:194	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO13:0=OK				
OPEN WIRE FAULT WHILE OFF DO14	1x00196 2x00196 I:195	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO14:0=OK				
OPEN WIRE FAULT WHILE OFF DO15	1x00197 2x00197 I:196	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO15:0=OK				
OPEN WIRE FAULT WHILE OFF DO16	1x00198 2x00198 I:197	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO16:0=OK				
OPEN WIRE FAULT WHILE OFF DO17	1x00199 2x00199 I:198	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO17:0=OK				
OPEN WIRE FAULT WHILE OFF DO18	1x00200 2x00200 I:199	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO18:0=OK				
OPEN WIRE FAULT WHILE OFF DO19	1x00201 2x00201 I:200	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO19:0=OK				
OPEN WIRE FAULT WHILE OFF DO20	1x00202 2x00202 I:201	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO20:0=OK				
OPEN WIRE FAULT WHILE OFF DO21	1x00203 2x00203 I:202	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO21:0=OK				

OPEN WIRE FAULT WHILE OFF DO22	1x00204 2x00204 I:203	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO22:0=OK				
OPEN WIRE FAULT WHILE OFF DO23	1x00205 2x00205 I:204	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO23:0=OK				
OPEN WIRE FAULT WHILE OFF DO24	1x00206 2x00206 I:205	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO24:0=OK				
OPEN WIRE FAULT WHILE OFF DO25	1x00207 2x00207 I:206	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO25:0=OK				
OPEN WIRE FAULT WHILE OFF DO26	1x00208 2x00208 I:207	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO26:0=OK				
OPEN WIRE FAULT WHILE OFF DO27	1x00209 2x00209 I:208	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO27:0=OK				
OPEN WIRE FAULT WHILE OFF DO28	1x00210 2x00210 I:209	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO28:0=OK				
OPEN WIRE FAULT WHILE OFF DO29	1x00211 2x00211 I:210	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO29:0=OK				
OPEN WIRE FAULT WHILE OFF DO30	1x00212 2x00212 I:211	0,0x00 B:00			BIT R/O	
		Actual detection state of an open wire fault in state OFF for DO30:0=OK				

DIGITAL OUTPUTS: SHORTCUT DETECTION STATUS TO VDD WHILE OFF

OPEN WIRE SHORTCUT TO VDD DO1	1x00213 2x00213 I:212	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO1:0=OK				
The current detection state of a shortcut to VDD in the output state OFF for the digital output DOx =0:No fault, =1:Fault-shortcut to VDD detected						
OPEN WIRE SHORTCUT TO VDD DO2	1x00214 2x00214 I:213	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO2:0=OK				
OPEN WIRE SHORTCUT TO VDD DO3	1x00215 2x00215 I:214	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO3:0=OK				
OPEN WIRE SHORTCUT TO VDD DO4	1x00216 2x00216 I:215	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO4:0=OK				
OPEN WIRE SHORTCUT TO VDD DO5	1x00217 2x00217 I:216	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO5:0=OK				
OPEN WIRE SHORTCUT TO VDD DO6	1x00218 2x00218 I:217	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO6:0=OK				
OPEN WIRE SHORTCUT TO VDD DO7	1x00219 2x00219 I:218	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO7:0=OK				

OPEN WIRE SHORTCUT TO VDD DO8	1x00220 2x00220 I:219	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO8:0=OK				
OPEN WIRE SHORTCUT TO VDD DO9	1x00221 2x00221 I:220	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO9:0=OK				
OPEN WIRE SHORTCUT TO VDD DO10	1x00222 2x00222 I:221	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO10:0=OK				
OPEN WIRE SHORTCUT TO VDD DO11	1x00223 2x00223 I:222	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO11:0=OK				
OPEN WIRE SHORTCUT TO VDD DO12	1x00224 2x00224 I:223	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO12:0=OK				
OPEN WIRE SHORTCUT TO VDD DO13	1x00225 2x00225 I:224	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO13:0=OK				
OPEN WIRE SHORTCUT TO VDD DO14	1x00226 2x00226 I:225	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO14:0=OK				
OPEN WIRE SHORTCUT TO VDD DO15	1x00227 2x00227 I:226	0,0x00 B:00			BIT R/O	

		Actual detection state of a shortcut to VDD in state OFF for VDD DO15:0=OK			
OPEN WIRE SHORTCUT TO VDD DO16	1x00228 2x00228 I:227	0,0x00 B:00		BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO16:0=OK			
OPEN WIRE SHORTCUT TO VDD DO17	1x00229 2x00229 I:228	0,0x00 B:00		BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO17:0=OK			
OPEN WIRE SHORTCUT TO VDD DO18	1x00230 2x00230 I:229	0,0x00 B:00		BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO18:0=OK			
OPEN WIRE SHORTCUT TO VDD DO19	1x00231 2x00231 I:230	0,0x00 B:00		BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO19:0=OK			
OPEN WIRE SHORTCUT TO VDD DO20	1x00232 2x00232 I:231	0,0x00 B:00		BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO20:0=OK			
OPEN WIRE SHORTCUT TO VDD DO21	1x00233 2x00233 I:232	0,0x00 B:00		BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO21:0=OK			
OPEN WIRE SHORTCUT TO VDD DO22	1x00234 2x00234 I:233	0,0x00 B:00		BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO22:0=OK			

OPEN WIRE SHORTCUT TO VDD DO23	1x00235 2x00235 I:234	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO23:0=OK				
OPEN WIRE SHORTCUT TO VDD DO24	1x00236 2x00236 I:235	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO24:0=OK				
OPEN WIRE SHORTCUT TO VDD DO25	1x00237 2x00237 I:236	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO25:0=OK				
OPEN WIRE SHORTCUT TO VDD DO26	1x00238 2x00238 I:237	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO26:0=OK				
OPEN WIRE SHORTCUT TO VDD DO27	1x00239 2x00239 I:238	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO27:0=OK				
OPEN WIRE SHORTCUT TO VDD DO28	1x00240 2x00240 I:239	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO28:0=OK				
OPEN WIRE SHORTCUT TO VDD DO29	1x00241 2x00241 I:240	0,0x00 B:00			BIT R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO29:0=OK				
OPEN WIRE SHORTCUT TO VDD DO30	1x00242 2x00242 I:241	0,0x00 B:00			BIT R/O	

		Actual detection state of a shortcut to VDD in state OFF for VDD DO30:0=OK			
DIGITAL OUTPUTS: THERMAL OVERLOAD DETECTION STATUS					
THERMAL OVERLOAD DETECTION STATUS DO1	1x00243 2x00243 I:242	0,0x00 B:00			BIT R/O
		Actual detection state of a thermal overload for DO1:0=OK			
The current detection state of a thermal overload for the digital output DOx =0:No fault, =1:Fault-thermal overload detected					
THERMAL OVERLOAD DETECTION STATUS DO2	1x00244 2x00244 I:243	0,0x00 B:00			BIT R/O
		Actual detection state of a thermal overload for DO2:0=OK			
THERMAL OVERLOAD DETECTION STATUS DO3	1x00245 2x00245 I:244	0,0x00 B:00			BIT R/O
		Actual detection state of a thermal overload for DO3:0=OK			
THERMAL OVERLOAD DETECTION STATUS DO4	1x00246 2x00246 I:245	0,0x00 B:00			BIT R/O
		Actual detection state of a thermal overload for DO4:0=OK			
THERMAL OVERLOAD DETECTION STATUS DO5	1x00247 2x00247 I:246	0,0x00 B:00			BIT R/O
		Actual detection state of a thermal overload for DO5:0=OK			
THERMAL OVERLOAD DETECTION STATUS DO6	1x00248 2x00248 I:247	0,0x00 B:00			BIT R/O
		Actual detection state of a thermal overload for DO6:0=OK			
THERMAL OVERLOAD DETECTION STATUS DO7	1x00249 2x00249 I:248	0,0x00 B:00			BIT R/O
		Actual detection state of a thermal overload for DO7:0=OK			
THERMAL OVERLOAD DETECTION STATUS DO8	1x00250 2x00250 I:249	0,0x00 B:00			BIT R/O
		Actual detection state of a thermal overload for DO8:0=OK			

THERMAL OVERLOAD DETECTION STATUS DO9	1x00251 2x00251 I:250	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO9:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO10	1x00252 2x00252 I:251	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO10:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO11	1x00253 2x00253 I:252	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO11:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO12	1x00254 2x00254 I:253	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO12:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO13	1x00255 2x00255 I:254	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO13:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO14	1x00256 2x00256 I:255	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO14:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO15	1x00257 2x00257 I:256	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO15:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO16	1x00258 2x00258 I:257	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO16:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO17	1x00259 2x00259 I:258	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO17:0=OK				

THERMAL OVERLOAD DETECTION STATUS DO18	1x00260 2x00260 I:259	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO18:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO19	1x00261 2x00261 I:260	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO19:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO20	1x00262 2x00262 I:261	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO20:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO21	1x00263 2x00263 I:262	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO21:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO22	1x00264 2x00264 I:263	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO22:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO23	1x00265 2x00265 I:264	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO23:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO24	1x00266 2x00266 I:265	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO24:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO25	1x00267 2x00267 I:266	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO25:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO26	1x00268 2x00268 I:267	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO26:0=OK				

THERMAL OVERLOAD DETECTION STATUS DO27	1x00269 2x00269 I:268	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO27:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO28	1x00270 2x00270 I:269	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO28:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO29	1x00271 2x00271 I:270	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO29:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO30	1x00272 2x00272 I:271	0,0x00 B:00			BIT R/O	
		Actual detection state of a thermal overload for DO30:0=OK				
DIGITAL OUTPUTS: CURRENT LIMIT DETECTION STATUS WHILE ON						
CURRENT LIMIT DETECTION STATUS WHILE ON DO1	1x00273 2x00273 I:272	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO1:0=OK				
The current detection state of a current limit while output is ON for the digital output DOx =0:No fault, =1:Fault-current limit error						
CURRENT LIMIT DETECTION STATUS WHILE ON DO2	1x00274 2x00274 I:273	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO2:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO3	1x00275 2x00275 I:274	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO3:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO4	1x00276 2x00276 I:275	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO4:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO5	1x00277 2x00277 I:276	0,0x00 B:00			BIT R/O	

		Actual detection state of a current limit while ON for DO5:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO6	1x00278 2x00278 I:277	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO6:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO7	1x00279 2x00279 I:278	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO7:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO8	1x00280 2x00280 I:279	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO8:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO9	1x00281 2x00281 I:280	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO9:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO10	1x00282 2x00282 I:281	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO10:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO11	1x00283 2x00283 I:282	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO11:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO12	1x00284 2x00284 I:283	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO12:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO13	1x00285 2x00285 I:284	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO13:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO14	1x00286 2x00286 I:285	0,0x00 B:00			BIT R/O	

		Actual detection state of a current limit while ON for DO14:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO15	1x00287 2x00287 I:286	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO15:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO16	1x00288 2x00288 I:287	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO16:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO17	1x00289 2x00289 I:288	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO17:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO18	1x00290 2x00290 I:289	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO18:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO19	1x00291 2x00291 I:290	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO19:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO20	1x00292 2x00292 I:291	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO20:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO21	1x00293 2x00293 I:292	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO21:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO22	1x00294 2x00294 I:293	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO22:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO23	1x00295 2x00295 I:294	0,0x00 B:00			BIT R/O	

		Actual detection state of a current limit while ON for DO23:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO24	1x00296 2x00296 I:295	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO24:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO25	1x00297 2x00297 I:296	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO25:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO26	1x00298 2x00298 I:297	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO26:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO27	1x00299 2x00299 I:298	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO27:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO28	1x00300 2x00300 I:299	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO28:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO29	1x00301 2x00301 I:300	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO29:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO30	1x00302 2x00302 I:301	0,0x00 B:00			BIT R/O	
		Actual detection state of a current limit while ON for DO30:0=OK				
DIGITAL OUTPUTS: GLOBAL ERRORS						
CHIP #1:DO1-DO8						
GLOBAL ERRORS BIT 0	1x00303 2x00303 I:302	0,0x00 B:00			BIT R/O	
		BIT 0:Internal under voltage detected:0=OK				
GLOBAL ERRORS BIT 1	1x00304 2x00304 I:303	0,0x00 B:00			BIT R/O	

		BIT 1:VA under voltage detected (<2.3V):0=OK				
GLOBAL ERRORS BIT 2	1x00305 2x00305 I:304	0,0x00 B:00			BIT R/O	
		BIT 2:VDD not good detected (<17V):0=OK				
GLOBAL ERRORS BIT 3	1x00306 2x00306 I:305	0,0x00 B:00			BIT R/O	
		BIT 3:VDD warning detected (<12V):0=OK				
GLOBAL ERRORS BIT 4	1x00307 2x00307 I:306	0,0x00 B:00			BIT R/O	
		BIT 4:VDD under voltage detected (<8V):0=OK				
GLOBAL ERRORS BIT 5	1x00308 2x00308 I:307	0,0x00 B:00			BIT R/O	
		BIT 5:Thermal shutdown:0=OK				
GLOBAL ERRORS BIT 6	1x00309 2x00309 I:308	0,0x00 B:00			BIT R/O	
		BIT 6:Synchronisation error detected:0=OK				
GLOBAL ERRORS BIT 7	1x00310 2x00310 I:309	0,0x00 B:00			BIT R/O	
		BIT 7:Watchdog error detected:0=OK				
The global error state for the output group. Each bit stands for a different error =0:No fault, =1:Fault						
DIGITAL OUTPUTS: GLOBAL ERRORS						
CHIP #2:DO9-DO15						
GLOBAL ERRORS BIT 0	1x00311 2x00311 I:310	0,0x00 B:00			BIT R/O	
		BIT 0:Internal under voltage detected:0=OK				
GLOBAL ERRORS BIT 1	1x00312 2x00312 I:311	0,0x00 B:00			BIT R/O	
		BIT 1:VA under voltage detected (<2.3V):0=OK				
GLOBAL ERRORS BIT 2	1x00313 2x00313 I:312	0,0x00 B:00			BIT R/O	
		BIT 2:VDD not good detected (<17V):0=OK				
GLOBAL ERRORS BIT 3	1x00314 2x00314 I:313	0,0x00 B:00			BIT R/O	
		BIT 3:VDD warning detected (<12V):0=OK				

GLOBAL ERRORS BIT 4	1x00315 2x00315 I:314	0,0x00 B:00			BIT R/O		
		BIT 4:VDD under voltage detected (<8V):0=OK					
GLOBAL ERRORS BIT 5	1x00316 2x00316 I:315	0,0x00 B:00			BIT R/O		
		BIT 5:Thermal shutdown:0=OK					
GLOBAL ERRORS BIT 6	1x00317 2x00317 I:316	0,0x00 B:00			BIT R/O		
		BIT 6:Synchronisation error detected:0=OK					
GLOBAL ERRORS BIT 7	1x00318 2x00318 I:317	0,0x00 B:00			BIT R/O		
		BIT 7:Watchdog error detected:0=OK					
The global error state for the output group. Each bit stands for a different error =0:No fault, =1:Fault							
DIGITAL OUTPUTS: GLOBAL ERRORS							
CHIP #3:DO16-DO23							
GLOBAL ERRORS BIT 0	1x00319 2x00319 I:318	0,0x00 B:00			BIT R/O		
		BIT 0:Internal under voltage detected:0=OK					
GLOBAL ERRORS BIT 1	1x00320 2x00320 I:319	0,0x00 B:00			BIT R/O		
		BIT 1:VA under voltage detected (<2.3V):0=OK					
GLOBAL ERRORS BIT 2	1x00321 2x00321 I:320	0,0x00 B:00			BIT R/O		
		BIT 2:VDD not good detected (<17V):0=OK					
GLOBAL ERRORS BIT 3	1x00322 2x00322 I:321	0,0x00 B:00			BIT R/O		
		BIT 3:VDD warning detected (<12V):0=OK					
GLOBAL ERRORS BIT 4	1x00323 2x00323 I:322	0,0x00 B:00			BIT R/O		
		BIT 4:VDD under voltage detected (<8V):0=OK					
GLOBAL ERRORS BIT 5	1x00324 2x00324 I:323	0,0x00 B:00			BIT R/O		
		BIT 5:Thermal shutdown:0=OK					

GLOBAL ERRORS BIT 6	1x00325 2x00325 I:324	0,0x00 B:00			BIT R/O	
		BIT 6:Synchronisation error detected:0=OK				
GLOBAL ERRORS BIT 7	1x00326 2x00326 I:325	0,0x00 B:00			BIT R/O	
		BIT 7:Watchdog error detected:0=OK				
The global error state for the output group. Each bit stands for a different error =0:No fault, =1:Fault						
DIGITAL OUTPUTS: GLOBAL ERRORS						
CHIP #4:DO24-DO30						
GLOBAL ERRORS BIT 0	1x00327 2x00327 I:326	0,0x00 B:00			BIT R/O	
		BIT 0:Internal under voltage detected:0=OK				
GLOBAL ERRORS BIT 1	1x00328 2x00328 I:327	0,0x00 B:00			BIT R/O	
		BIT 1:VA under voltage detected (<2.3V):0=OK				
GLOBAL ERRORS BIT 2	1x00329 2x00329 I:328	0,0x00 B:00			BIT R/O	
		BIT 2:VDD not good detected (<17V):0=OK				
GLOBAL ERRORS BIT 3	1x00330 2x00330 I:329	0,0x00 B:00			BIT R/O	
		BIT 3:VDD warning detected (<12V):0=OK				
GLOBAL ERRORS BIT 4	1x00331 2x00331 I:330	0,0x00 B:00			BIT R/O	
		BIT 4:VDD under voltage detected (<8V):0=OK				
GLOBAL ERRORS BIT 5	1x00332 2x00332 I:331	0,0x00 B:00			BIT R/O	
		BIT 5:Thermal shutdown:0=OK				
GLOBAL ERRORS BIT 6	1x00333 2x00333 I:332	0,0x00 B:00			BIT R/O	
		BIT 6:Synchronisation error detected:0=OK				
GLOBAL ERRORS BIT 7	1x00334 2x00334 I:333	0,0x00 B:00			BIT R/O	
		BIT 7:Watchdog error detected:0=OK				
The global error state for the output group. Each bit stands for a different error =0:No fault, =1:Fault						

DIGITAL OUTPUTS: INTERRUPT STATUS**CHIP #1:DO1-DO8**

INTERRUPT STATUS BIT 0	1x00335 2x00335 I:334	0,0x00 B:00			BIT R/O	
		BIT 0:Overload detected:0=OK				
INTERRUPT STATUS BIT 1	1x00336 2x00336 I:335	0,0x00 B:00			BIT R/O	
		BIT 1:Current limit detected:0=OK				
INTERRUPT STATUS BIT 2	1x00337 2x00337 I:336	0,0x00 B:00			BIT R/O	
		BIT 2:Open wire while OFF detected:0=OK				
INTERRUPT STATUS BIT 3	1x00338 2x00338 I:337	0,0x00 B:00			BIT R/O	
		BIT 3:Open wire while ON detected:0=OK				
INTERRUPT STATUS BIT 4	1x00339 2x00339 I:338	0,0x00 B:00			BIT R/O	
		BIT 4:Short to VDD while ON detected:0=OK				
INTERRUPT STATUS BIT 5	1x00340 2x00340 I:339	0,0x00 B:00			BIT R/O	
		BIT 5:Thermal error detected-shutdown:0=OK				
INTERRUPT STATUS BIT 6	1x00341 2x00341 I:340	0,0x00 B:00			BIT R/O	
		BIT 6:Supply error detected:0=OK				
INTERRUPT STATUS BIT 7	1x00342 2x00342 I:341	0,0x00 B:00			BIT R/O	
		BIT 7:Communication error detected:0=OK				

The global interrupt error state for the output group. Each bit stands for a different error
 =0:No fault, =1:Fault

DIGITAL OUTPUTS: INTERRUPT STATUS**CHIP #2:DO9-DO15**

INTERRUPT STATUS BIT 0	1x00343 2x00343 I:342	0,0x00 B:00			BIT R/O	
		BIT 0:Overload detected:0=OK				
INTERRUPT STATUS BIT 1	1x00344 2x00344 I:343	0,0x00 B:00			BIT R/O	
		BIT 1:Current limit detected:0=OK				

INTERRUPT STATUS BIT 2	1x00345 2x00345 I:344	0,0x00 B:00			BIT R/O	
		BIT 2:Open wire while OFF detected:0=OK				
INTERRUPT STATUS BIT 3	1x00346 2x00346 I:345	0,0x00 B:00			BIT R/O	
		BIT 3:Open wire while ON detected:0=OK				
INTERRUPT STATUS BIT 4	1x00347 2x00347 I:346	0,0x00 B:00			BIT R/O	
		BIT 4:Short to VDD while ON detected:0=OK				
INTERRUPT STATUS BIT 5	1x00348 2x00348 I:347	0,0x00 B:00			BIT R/O	
		BIT 5:Thermal error detected-shutdown:0=OK				
INTERRUPT STATUS BIT 6	1x00349 2x00349 I:348	0,0x00 B:00			BIT R/O	
		BIT 6:Supply error detected:0=OK				
INTERRUPT STATUS BIT 7	1x00350 2x00350 I:349	0,0x00 B:00			BIT R/O	
		BIT 7:Communication error detected:0=OK				

The global interrupt error state for the output group. Each bit stands for a different error

=0:No fault, =1:Fault

DIGITAL OUTPUTS: INTERRUPT STATUS

CHIP #3:DO16-DO23

INTERRUPT STATUS BIT 0	1x00351 2x00351 I:350	0,0x00 B:00			BIT R/O	
		BIT 0:Overload detected:0=OK				
INTERRUPT STATUS BIT 1	1x00352 2x00352 I:351	0,0x00 B:00			BIT R/O	
		BIT 1:Current limit detected:0=OK				
INTERRUPT STATUS BIT 2	1x00353 2x00353 I:352	0,0x00 B:00			BIT R/O	
		BIT 2:Open wire while OFF detected:0=OK				
INTERRUPT STATUS BIT 3	1x00354 2x00354 I:353	0,0x00 B:00			BIT R/O	
		BIT 3:Open wire while ON detected:0=OK				

INTERRUPT STATUS BIT 4	1x00355 2x00355 I:354	0,0x00 B:00			BIT R/O		
		BIT 4:Short to VDD while ON detected:0=OK					
INTERRUPT STATUS BIT 5	1x00356 2x00356 I:355	0,0x00 B:00			BIT R/O		
		BIT 5:Thermal error detected-shutdown:0=OK					
INTERRUPT STATUS BIT 6	1x00357 2x00357 I:356	0,0x00 B:00			BIT R/O		
		BIT 6:Supply error detected:0=OK					
INTERRUPT STATUS BIT 7	1x00358 2x00358 I:357	0,0x00 B:00			BIT R/O		
		BIT 7:Communication error detected:0=OK					
The global interrupt error state for the output group. Each bit stands for a different error =0:No fault, =1:Fault							
DIGITAL OUTPUTS: INTERRUPT STATUS							
CHIP #4:DO24-DO30							
INTERRUPT STATUS BIT 0	1x00359 2x00359 I:358	0,0x00 B:00			BIT R/O		
		BIT 0:Overload detected:0=OK					
INTERRUPT STATUS BIT 1	1x00360 2x00360 I:359	0,0x00 B:00			BIT R/O		
		BIT 1:Current limit detected:0=OK					
INTERRUPT STATUS BIT 2	1x00361 2x00361 I:360	0,0x00 B:00			BIT R/O		
		BIT 2:Open wire while OFF detected:0=OK					
INTERRUPT STATUS BIT 3	1x00362 2x00362 I:361	0,0x00 B:00			BIT R/O		
		BIT 3:Open wire while ON detected:0=OK					
INTERRUPT STATUS BIT 4	1x00363 2x00363 I:362	0,0x00 B:00			BIT R/O		
		BIT 4:Short to VDD while ON detected:0=OK					
INTERRUPT STATUS BIT 5	1x00364 2x00364 I:363	0,0x00 B:00			BIT R/O		
		BIT 5:Thermal error detected-shutdown:0=OK					

INTERRUPT STATUS BIT 6	1x00365 2x00365 I:364	0,0x00 B:00			BIT R/O	
		BIT 6:Supply error detected:0=OK				
INTERRUPT STATUS BIT 7	1x00366 2x00366 I:365	0,0x00 B:00			BIT R/O	
		BIT 7:Communication error detected:0=OK				
The global interrupt error state for the output group. Each bit stands for a different error =0:No fault, =1:Fault						
SPI COMMUNICATION DIGITAL OUTPUTS						
SPI COMMUNICATION CHIP #1: DO1-DO8	1x00367 2x00367 I:366	0,0x00 B:00			BIT R/O	
		Actual SPI communication state:0=NO FAULT				
The current monitoring state of the SPI communication for the digital output group =0:No fault, =1:Fault						
SPI COMMUNICATION CHIP #2: DO9-DO15	1x00368 2x00368 I:367	0,0x00 B:00			BIT R/O	
		Actual SPI communication state:0=NO FAULT				
The current monitoring state of the SPI communication for the digital output group =0:No fault, =1:Fault						
SPI COMMUNICATION CHIP #3: DO16-DO23	1x00369 2x00369 I:368	0,0x00 B:00			BIT R/O	
		Actual SPI communication state:0=NO FAULT				
The current monitoring state of the SPI communication for the digital output group =0:No fault, =1:Fault						
SPI COMMUNICATION CHIP #4: DO24-DO30	1x00370 2x00370 I:369	0,0x00 B:00			BIT R/O	
		Actual SPI communication state:0=NO FAULT				
DIGITAL INPUTS: RESET						
RESET COUNTERS	1x10000 2x10000 I:9999	0,0x00 B:00		1:PERFORM RESET	BIT R/W	NO
If this register is written to 1, all internal edge counters and event counters are set to 0. 0 is always returned when reading.						
STATUS REAL DIGITAL INPUTS						
DI1	1x15001 2x14001 I:15000	0,0x00 B:00			BIT R/O	
		Actual state of DI1:0=OFF				
Current state of the digital input DIx with the internal software filter to suppress glitches or spike on thie line =0:DI is OFF, =1:DI is ON						

DI2	1x15002 2x15002 I:15001	0,0x00 B:00			BIT R/O	
		Actual state of DI2:0=OFF				
DI3	1x15003 2x15003 I:15002	0,0x00 B:00			BIT R/O	
		Actual state of DI3:0=OFF				
DI4	1x15004 2x15004 I:15003	0,0x00 B:00			BIT R/O	
		Actual state of DI4:0=OFF				
DI5	1x15005 2x15005 I:15004	0,0x00 B:00			BIT R/O	
		Actual state of DI5:0=OFF				
DI6	1x15006 2x15006 I:15005	0,0x00 B:00			BIT R/O	
		Actual state of DI6:0=OFF				
DI7	1x15007 2x15007 I:15006	0,0x00 B:00			BIT R/O	
		Actual state of DI7:0=OFF				
DI8	1x15008 2x15008 I:15007	0,0x00 B:00			BIT R/O	
		Actual state of DI8:0=OFF				
DI9	1x15009 2x15009 I:15008	0,0x00 B:00			BIT R/O	
		Actual state of DI9:0=OFF				
DI10	1x15010 2x15010 I:15009	0,0x00 B:00			BIT R/O	
		Actual state of DI10:0=OFF				
DI11	1x15011 2x15011 I:15010	0,0x00 B:00			BIT R/O	
		Actual state of DI11:0=OFF				
DI12	1x15012 2x15012 I:15011	0,0x00 B:00			BIT R/O	
		Actual state of DI12:0=OFF				

DI13	1x15013 2x15013 I:15012	0,0x00 B:00			BIT R/O	
		Actual state of DI13:0=OFF				
DI14	1x15014 2x15014 I:15013	0,0x00 B:00			BIT R/O	
		Actual state of DI14:0=OFF				
DI15	1x15015 2x15015 I:15014	0,0x00 B:00			BIT R/O	
		Actual state of DI15:0=OFF				
DI16	1x15016 2x15016 I:15015	0,0x00 B:00			BIT R/O	
		Actual state of DI16:0=OFF				
DI17	1x15017 2x15017 I:15016	0,0x00 B:00			BIT R/O	
		Actual state of DI17:0=OFF				
DI18	1x15018 2x15018 I:15017	0,0x00 B:00			BIT R/O	
		Actual state of DI18:0=OFF				
DI19	1x15019 2x15019 I:15018	0,0x00 B:00			BIT R/O	
		Actual state of DI19:0=OFF				
DI20	1x15020 2x15020 I:15019	0,0x00 B:00			BIT R/O	
		Actual state of DI20:0=OFF				
DI21	1x15021 2x15021 I:15020	0,0x00 B:00			BIT R/O	
		Actual state of DI21:0=OFF				
DI22	1x15022 2x15022 I:15021	0,0x00 B:00			BIT R/O	
		Actual state of DI22:0=OFF				
D23	1x15023 2x15023 I:15022	0,0x00 B:00			BIT R/O	
		Actual state of D23:0=OFF				

DI24	1x15024 2x15024 I:15023	0,0x00 B:00			BIT R/O	
		Actual state of DI24:0=OFF				
DI25	1x15025 2x15025 I:15024	0,0x00 B:00			BIT R/O	
		Actual state of DI25:0=OFF				
DI26	1x15026 2x15026 I:15025	0,0x00 B:00			BIT R/O	
		Actual state of DI26:0=OFF				
DI27	1x15027 2x15027 I:15026	0,0x00 B:00			BIT R/O	
		Actual state of DI27:0=OFF				
DI28	1x15028 2x15028 I:15027	0,0x00 B:00			BIT R/O	
		Actual state of DI28:0=OFF				
DI29	1x15029 2x15029 I:15028	0,0x00 B:00			BIT R/O	
		Actual state of DI29:0=OFF				
DI30	1x15030 2x15030 I:15029	0,0x00 B:00			BIT R/O	
		Actual state of DI30:0=OFF				
DI31	1x15031 2x15031 I:15030	0,0x00 B:00			BIT R/O	
		Actual state of DI31:0=OFF				
DI32	1x15032 2x15032 I:15031	0,0x00 B:00			BIT R/O	
		Actual state of DI32:0=OFF				
STATUS DIGITAL INPUTS						
UNFILTERED DI1	1x15033 2x15033 I:15032	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI1:0=OFF				
Current state of the real digital input DIx without the internal software filter to suppress glitches or spike on this line =0:DI is OFF, =1:DI is ON						
UNFILTERED DI2	1x15034 2x15034 I:15033	0,0x00 B:00			BIT R/O	

		Actual state of UNFILTERED DI2:0=OFF				
UNFILTERED DI3	1x15035 2x15035 I:15034	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI3:0=OFF				
UNFILTERED DI4	1x15036 2x15036 I:15035	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI4:0=OFF				
UNFILTERED DI5	1x15037 2x15037 I:15036	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI5:0=OFF				
UNFILTERED DI6	1x15038 2x15038 I:15037	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI6:0=OFF				
UNFILTERED DI7	1x15039 2x15039 I:15038	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI7:0=OFF				
UNFILTERED DI8	1x15040 2x15040 I:15039	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI8:0=OFF				
UNFILTERED DI9	1x15041 2x15041 I:15040	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI9:0=OFF				
UNFILTERED DI10	1x15042 2x15042 I:15041	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI10:0=OFF				
UNFILTERED DI11	1x15043 2x15043 I:15042	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI11:0=OFF				
UNFILTERED DI12	1x15044 2x15044 I:15043	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI12:0=OFF				
UNFILTERED DI13	1x15045 2x15045 I:15044	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI13:0=OFF				

UNFILTERED DI14	1x15046 2x15046 I:15045	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI14:0=OFF				
UNFILTERED DI15	1x15047 2x15047 I:15046	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI15:0=OFF				
UNFILTERED DI16	1x15048 2x15048 I:15047	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI16:0=OFF				
UNFILTERED DI17	1x15049 2x15049 I:15048	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI17:0=OFF				
UNFILTERED DI18	1x15050 2x15050 I:15049	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI18:0=OFF				
UNFILTERED DI19	1x15051 2x15051 I:15050	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI19:0=OFF				
UNFILTERED DI20	1x15052 2x15052 I:15051	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI20:0=OFF				
UNFILTERED DI21	1x15053 2x15053 I:15052	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI21:0=OFF				
UNFILTERED DI22	1x15054 2x15054 I:15053	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI22:0=OFF				
UNFILTERED DI23	1x15055 2x15055 I:15054	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI23:0=OFF				
UNFILTERED DI24	1x15056 2x15056 I:15055	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI24:0=OFF				

UNFILTERED DI25	1x15057 2x15057 I:15056	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI25:0=OFF				
UNFILTERED DI26	1x15058 2x15058 I:15057	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI26:0=OFF				
UNFILTERED DI27	1x15059 2x15059 I:15058	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI27:0=OFF				
UNFILTERED DI28	1x15060 2x15060 I:15059	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI28:0=OFF				
UNFILTERED DI29	1x15061 2x15061 I:15060	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI29:0=OFF				
UNFILTERED DI30	1x15062 2x15062 I:15061	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI30:0=OFF				
UNFILTERED DI31	1x15063 2x15063 I:15062	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI31:0=OFF				
UNFILTERED DI32	1x15064 2x15064 I:15063	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI32:0=OFF				
STATUS DIGITAL OUTPUTS						
DO1	1x16001 2x16001 I:16000	0,0x00 B:00		1	BIT R/W	NO
		Actual state of DO1:0=OFF		ENTER NEW STATE (0 or 1)		
Current state of the digital output DOx =0:DO is OFF, =1:DO is ON						
Writing on this register changes the state of the digital output						
DO2	1x16002 2x16002 I:16001	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO2:0=OFF		ENTER NEW STATE (0 or 1)		

DO3	1x16003 2x16003 I:16002	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO3:0=OFF		ENTER NEW STATE (0 or 1)		
DO4	1x16004 2x16004 I:16003	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO4:0=OFF		ENTER NEW STATE (0 or 1)		
DO5	1x16005 2x16005 I:16004	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO5:0=OFF		ENTER NEW STATE (0 or 1)		
DO6	1x16006 2x16006 I:16005	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO6:0=OFF		ENTER NEW STATE (0 or 1)		
DO7	1x16007 2x16007 I:16006	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO7:0=OFF		ENTER NEW STATE (0 or 1)		
DO8	1x16008 2x16008 I:16007	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO8:0=OFF		ENTER NEW STATE (0 or 1)		
DO9	1x16009 2x16009 I:16008	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO9:0=OFF		ENTER NEW STATE (0 or 1)		
DO10	1x16010 2x16010 I:16009	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO10:0=OFF		ENTER NEW STATE (0 or 1)		
DO11	1x16011 2x16011 I:16010	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO11:0=OFF		ENTER NEW STATE (0 or 1)		
DO12	1x16012 2x16012 I:16011	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO12:0=OFF		ENTER NEW STATE (0 or 1)		
DO13	1x16013 2x16013 I:16012	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO13:0=OFF		ENTER NEW STATE (0 or 1)		

DO14	1x16014 2x16014 I:16013	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO14:0=OFF		ENTER NEW STATE (0 or 1)		
DO15	1x16015 2x16015 I:16014	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO15:0=OFF		ENTER NEW STATE (0 or 1)		
DO16	1x16016 2x16016 I:16015	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO16:0=OFF		ENTER NEW STATE (0 or 1)		
DO17	1x16017 2x16017 I:16016	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO17:0=OFF		ENTER NEW STATE (0 or 1)		
DO18	1x16018 2x16018 I:16017	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO18:0=OFF		ENTER NEW STATE (0 or 1)		
DO19	1x16019 2x16019 I:16018	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO19:0=OFF		ENTER NEW STATE (0 or 1)		
DO20	1x16020 2x16020 I:16019	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO20:0=OFF		ENTER NEW STATE (0 or 1)		
DO21	1x16021 2x16021 I:16020	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO21:0=OFF		ENTER NEW STATE (0 or 1)		
DO22	1x16022 2x16022 I:16021	0,0x00 B:00		0	BIT R/W	NO
		Actual state of DO22:0=OFF		ENTER NEW STATE (0 or 1)		
DO23	1x16023 2x16023 I:16022	????		0	BIT R/W	NO
		Actual state of DO23:0=OFF		ENTER NEW STATE (0 or 1)		
DO24	1x16024 2x16024 I:16023	????		0	BIT R/W	NO
		Actual state of DO24:0=OFF		ENTER NEW STATE (0 or 1)		

DO25	1x16025 2x16025 I:16024	????		0	BIT R/W	NO
		Actual state of DO25:0=OFF		ENTER NEW STATE (0 or 1)		
DO26	1x16026 2x16026 I:16025	????		0	BIT R/W	NO
		Actual state of DO26:0=OFF		ENTER NEW STATE (0 or 1)		
DO27	1x16027 2x16027 I:16026	????		0	BIT R/W	NO
		Actual state of DO27:0=OFF		ENTER NEW STATE (0 or 1)		
DO28	1x16028 2x16028 I:16027	????		0	BIT R/W	NO
		Actual state of DO28:0=OFF		ENTER NEW STATE (0 or 1)		
DO29	1x16029 2x16029 I:16028	????		0	BIT R/W	NO
		Actual state of DO29:0=OFF		ENTER NEW STATE (0 or 1)		
DO30	1x16030 2x16030 I:16029	????		0	BIT R/W	NO
		Actual state of DO30:0=OFF		ENTER NEW STATE (0 or 1)		

Register NAME Command NAME	MODBUS Register ASCII Command	Register VALUE ASCII Command	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
DIGITAL INPUTS: DIGITAL INPUT HAS CHANGED IT'S STATE						
DI HAS CHANGED DI1	1x20001 2x20001 I:20000	0,0x00 B:00			BIT R/O	
If the digital input has changed this bit inverts its last state						
DI HAS CHANGED DI2	1x20002 2x20002 I:20001	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI3	1x20003 2x20003 I:20002	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI4	1x20004 2x20004 I:20003	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI5	1x20005 2x20005 I:20004	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI6	1x20006 2x20006 I:20005	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI7	1x20007 2x20007 I:20006	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI8	1x20008 2x20008 I:20007	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI9	1x20009 2x20009 I:20008	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI10	1x20010 2x20010 I:20009	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI11	1x20011 2x20011 I:20010	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI12	1x20012 2x20012 I:20011	0,0x00 B:00			BIT R/O	

DI HAS CHANGED DI13	1x20013 2x20013 I:20012	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI14	1x20014 2x20014 I:20013	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI15	1x20015 2x20015 I:20014	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI16	1x20016 2x20016 I:20015	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI17	1x20017 2x20017 I:20016	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI18	1x20018 2x20018 I:20017	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI19	1x20019 2x20019 I:20018	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI20	1x20020 2x20020 I:20019	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI21	1x20021 2x20021 I:20020	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI22	1x20022 2x20022 I:20021	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI23	1x20023 2x20023 I:20022	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI24	1x20024 2x20024 I:20023	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI25	1x20025 2x20025 I:20024	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI26	1x20026 2x20026 I:20025	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI27	1x20027 2x20027 I:20026	0,0x00 B:00			BIT R/O	

DI HAS CHANGED DI28	1x20028 2x20028 I:20027	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI29	1x20029 2x20029 I:20028	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI30	1x20030 2x20030 I:20029	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI31	1x20031 2x20031 I:20030	0,0x00 B:00			BIT R/O	
DI HAS CHANGED DI32	1x20032 2x20032 I:20031	0,0x00 B:00			BIT R/O	
DIGITAL INPUTS: SHORT KEYPRESS EVENT ON DIGITAL INPUT DETECTED						
SHORT KEYPRESS ON DI1	1x20033 2x20033 I:20032	0,0x00 B:00			BIT R/O	
If a short keypress event was detected on the digital input this bit inverts its last state						
SHORT KEYPRESS ON DI2	1x20034 2x20034 I:20033	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI3	1x20035 2x20035 I:20034	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI4	1x20036 2x20036 I:20035	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI5	1x20037 2x20037 I:20036	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI6	1x20038 2x20038 I:20037	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI7	1x20039 2x20039 I:20038	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI8	1x20040 2x20040 I:20039	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI9	1x20041 2x20041 I:20040	0,0x00 B:00			BIT R/O	

SHORT KEYPRESS ON DI10	1x20042 2x20042 I:20041	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI11	1x20043 2x20043 I:20042	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI12	1x20044 2x20044 I:20043	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI13	1x20045 2x20045 I:20044	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI14	1x20046 2x20046 I:20045	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI15	1x20047 2x20047 I:20046	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI16	1x20048 2x20048 I:20047	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI17	1x20049 2x20049 I:20048	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI18	1x20050 2x20050 I:20049	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI19	1x20051 2x20051 I:20050	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI20	1x20052 2x20052 I:20051	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI21	1x20053 2x20053 I:20052	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI22	1x20054 2x20054 I:20053	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI23	1x20055 2x20055 I:20054	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI24	1x20056 2x20056 I:20055	0,0x00 B:00			BIT R/O	

SHORT KEYPRESS ON DI25	1x20057 2x20057 I:20056	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI26	1x20058 2x20058 I:20057	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI27	1x20059 2x20059 I:20058	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI28	1x20060 2x20060 I:20059	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI29	1x20061 2x20061 I:20060	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI30	1x20062 2x20062 I:20061	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI31	1x20063 2x20063 I:20062	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI32	1x20064 2x20064 I:20063	0,0x00 B:00			BIT R/O	
DIGITAL INPUTS: LONG KEYPRESS START EVENT ON DIGITAL INPUT DETECTED						
LONG KEYPRESS START ON DI1	1x20065 2x20065 I:20064	0,0x00 B:00			BIT R/O	
If a long keypress start event was detected on the digital input this bit inverts its last state						
LONG KEYPRESS START ON DI2	1x20066 2x20066 I:20065	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI3	1x20067 2x20067 I:20066	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI4	1x20068 2x20068 I:20067	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI5	1x20069 2x20069 I:20068	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI6	1x20070 2x20070 I:20069	0,0x00 B:00			BIT R/O	

LONG KEYPRESS START ON DI7	1x20071 2x20071 I:20070	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI8	1x20072 2x20072 I:20071	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI9	1x20073 2x20073 I:20072	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI10	1x20074 2x20074 I:20073	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI11	1x20075 2x20075 I:20074	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI12	1x20076 2x20076 I:20075	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI13	1x20077 2x20077 I:20076	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI14	1x20078 2x20078 I:20077	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI15	1x20079 2x20079 I:20078	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI16	1x20080 2x20080 I:20079	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI17	1x20081 2x20081 I:20080	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI18	1x20082 2x20082 I:20081	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI19	1x20083 2x20083 I:20082	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI20	1x20084 2x20084 I:20083	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI21	1x20085 2x20085 I:20084	0,0x00 B:00			BIT R/O	

LONG KEYPRESS START ON DI22	1x20086 2x20086 I:20085	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI23	1x20087 2x20087 I:20086	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI24	1x20088 2x20088 I:20087	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI25	1x20089 2x20089 I:20088	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI26	1x20090 2x20090 I:20089	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI27	1x20091 2x20091 I:20090	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI28	1x20092 2x20092 I:20091	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI29	1x20093 2x20093 I:20092	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI30	1x20094 2x20094 I:20093	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI31	1x20095 2x20095 I:20094	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI32	1x20096 2x20096 I:20095	0,0x00 B:00			BIT R/O	
DIGITAL INPUTS: LONG KEYPRESS END EVENT ON DIGITAL INPUT DETECTED						
LONG KEYPRESS END ON DI1	1x20097 2x20097 I:20096	0,0x00 B:00			BIT R/O	
If a long keypress end event was detected on the digital input this bit inverts its last state						
LONG KEYPRESS END ON DI2	1x20098 2x20098 I:20097	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI3	1x20099 2x20099 I:20098	0,0x00 B:00			BIT R/O	

LONG KEYPRESS END ON DI4	1x20100 2x20100 I:20099	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI5	1x20101 2x20101 I:20100	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI6	1x20102 2x20102 I:20101	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI7	1x20103 2x20103 I:20102	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI8	1x20104 2x20104 I:20103	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI9	1x20105 2x20105 I:20104	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI10	1x20106 2x20106 I:20105	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI11	1x20107 2x20107 I:20106	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI12	1x20108 2x20108 I:20107	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI13	1x20109 2x20109 I:20108	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI14	1x20110 2x20110 I:20109	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI15	1x20111 2x20111 I:20110	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI16	1x20112 2x20112 I:20111	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI17	1x20113 2x20113 I:20112	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI18	1x20114 2x20114 I:20113	0,0x00 B:00			BIT R/O	

LONG KEYPRESS END ON DI19	1x20115 2x20115 I:20114	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI20	1x20116 2x20116 I:20115	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI21	1x20117 2x20117 I:20116	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI22	1x20118 2x20118 I:20117	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI23	1x20119 2x20119 I:20118	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI24	1x20120 2x20120 I:20119	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI25	1x20121 2x20121 I:20120	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI26	1x20122 2x20122 I:20121	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI27	1x20123 2x20123 I:20122	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI28	1x20124 2x20124 I:20123	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI29	1x20125 2x20125 I:20124	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI30	1x20126 2x20126 I:20125	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI31	1x20127 2x20127 I:20126	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI32	1x20128 2x20128 I:20127	0,0x00 B:00			BIT R/O	
DIGITAL INPUTS: RISING EDGE ON DIGITAL INPUT DETECTED						

RISING EDGE ON DI1	1x20129 2x20129 I:20128	0,0x00 B:00			BIT R/O	
If a rising edge was detected on the digital input this bit inverts its last state						
RISING EDGE ON DI2	1x20130 2x20130 I:20129	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI3	1x20131 2x20131 I:20130	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI4	1x20132 2x20132 I:20131	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI5	1x20133 2x20133 I:20132	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI6	1x20134 2x20134 I:20133	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI7	1x20135 2x20135 I:20134	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI8	1x20136 2x20136 I:20135	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI9	1x20137 2x20137 I:20136	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI10	1x20138 2x20138 I:20137	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI11	1x20139 2x20139 I:20138	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI12	1x20140 2x20140 I:20139	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI13	1x20141 2x20141 I:20140	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI14	1x20142 2x20142 I:20141	0,0x00 B:00			BIT R/O	

RISING EDGE ON DI15	1x20143 2x20143 I:20142	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI16	1x20144 2x20144 I:20143	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI17	1x20145 2x20145 I:20144	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI18	1x20146 2x20146 I:20145	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI19	1x20147 2x20147 I:20146	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI20	1x20148 2x20148 I:20147	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI21	1x20149 2x20149 I:20148	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI22	1x20150 2x20150 I:20149	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI23	1x20151 2x20151 I:20150	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI24	1x20152 2x20152 I:20151	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI25	1x20153 2x20153 I:20152	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI26	1x20154 2x20154 I:20153	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI27	1x20155 2x20155 I:20154	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI28	1x20156 2x20156 I:20155	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI29	1x20157 2x20157 I:20156	0,0x00 B:00			BIT R/O	

RISING EDGE ON DI30	1x20158 2x20158 I:20157	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI31	1x20159 2x20159 I:20158	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI32	1x20160 2x20160 I:20159	0,0x00 B:00			BIT R/O	
DIGITAL INPUTS: FALLING EDGE ON DIGITAL INPUT DETECTED						
FALLING EDGE ON DI1	1x20161 2x20161 I:20160	0,0x00 B:00			BIT R/O	
If a falling edge was detected on the digital input this bit inverts its last state						
FALLING EDGE ON DI2	1x20162 2x20162 I:20161	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI3	1x20163 2x20163 I:20162	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI4	1x20164 2x20164 I:20163	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI5	1x20165 2x20165 I:20164	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI6	1x20166 2x20166 I:20165	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI7	1x20167 2x20167 I:20166	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI8	1x20168 2x20168 I:20167	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI9	1x20169 2x20169 I:20168	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI10	1x20170 2x20170 I:20169	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI11	1x20171 2x20171 I:20170	0,0x00 B:00			BIT R/O	

FALLING EDGE ON DI12	1x20172 2x20172 I:20171	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI13	1x20173 2x20173 I:20172	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI14	1x20174 2x20174 I:20173	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI15	1x20175 2x20175 I:20174	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI16	1x20176 2x20176 I:20175	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI17	1x20177 2x20177 I:20176	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI18	1x20178 2x20178 I:20177	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI19	1x20179 2x20179 I:20178	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI20	1x20180 2x20180 I:20179	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI21	1x20181 2x20181 I:20180	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI22	1x20182 2x20182 I:20181	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI23	1x20183 2x20183 I:20182	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI24	1x20184 2x20184 I:20183	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI25	1x20185 2x20185 I:20184	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI26	1x20186 2x20186 I:20185	0,0x00 B:00			BIT R/O	

FALLING EDGE ON DI27	1x20187 2x20187 I:20186	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI28	1x20188 2x20188 I:20187	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI29	1x20189 2x20189 I:20188	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI30	1x20190 2x20190 I:20189	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI31	1x20191 2x20191 I:20190	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI32	1x20192 2x20192 I:20191	0,0x00 B:00			BIT R/O	

Register NAME Command NAME	MODBUS Register ASCII Command	Register VALUE ASCII Command	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
STATUS DIGITAL INPUTS						
DI1	3x00001 4x00001 I:0	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI1:0=OFF				
Current state of the digital input DIx =0:DI is OFF, =1:DI is ON						
DI2	3x00002 4x00002 I:1	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI2:0=OFF				
DI3	3x00003 4x00003 I:2	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI3:0=OFF				
DI4	3x00004 4x00004 I:3	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI4:0=OFF				
DI5	3x00005 4x00005 I:4	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI5:0=OFF				
DI6	3x00006 4x00006 I:5	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI6:0=OFF				
DI7	3x00007 4x00007 I:6	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI7:0=OFF				
DI8	3x00008 4x00008 I:7	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI8:0=OFF				
DI9	3x00009 4x00009 I:8	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI9:0=OFF				

DI10	3x00010 4x00010 I:9	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI10:0=OFF				
DI11	3x00011 4x00011 I:10	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI11:0=OFF				
DI12	3x00012 4x00012 I:11	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI12:0=OFF				
DI13	3x00013 4x00013 I:12	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI13:0=OFF				
DI14	3x00014 4x00014 I:13	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI14:0=OFF				
DI15	3x00015 4x00015 I:14	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI15:0=OFF				
DI16	3x00016 4x00016 I:15	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI16:0=OFF				
DI17	3x00017 4x00017 I:16	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI17:0=OFF				
DI18	3x00018 4x00018 I:17	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI18:0=OFF				
DI19	3x00019 4x00019 I:18	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI19:0=OFF				
DI20	3x00020 4x00020 I:19	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI20:0=OFF				

DI21	3x00021 4x00021 I:20	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI21:0=OFF				
DI22	3x00022 4x00022 I:21	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI22:0=OFF				
DI23	3x00023 4x00023 I:22	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI23:0=OFF				
DI24	3x00024 4x00024 I:23	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI24:0=OFF				
DI25	3x00025 4x00025 I:24	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI25:0=OFF				
DI26	3x00026 4x00026 I:25	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI26:0=OFF				
DI27	3x00027 4x00027 I:26	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI27:0=OFF				
DI28	3x00028 4x00028 I:27	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI28:0=OFF				
DI29	3x00029 4x00029 I:28	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI29:0=OFF				
DI30	3x00030 4x00030 I:29	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI30:0=OFF				
DI31	3x00031 4x00031 I:30	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI31:0=OFF				

DI32	3x00032 4x00032 I:31	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI32:0=OFF				
STATUS DIGITAL OUTPUTS						
DO1	3x00033 4x00033 I:32	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual state of DO1:0=OFF		ENTER NEW STATE (0 or 1)		
Current state of the digital output DOx =0:DO is OFF, =1:DO is ON						
Writing on this register changes the state of the digital output						
DO2	3x00034 4x00034 I:33	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO2:0=OFF		ENTER NEW STATE (0 or 1)		
DO3	3x00035 4x00035 I:34	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO3:0=OFF		ENTER NEW STATE (0 or 1)		
DO4	3x00036 4x00036 I:35	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO4:0=OFF		ENTER NEW STATE (0 or 1)		
DO5	3x00037 4x00037 I:36	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO5:0=OFF		ENTER NEW STATE (0 or 1)		
DO6	3x00038 4x00038 I:37	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO6:0=OFF		ENTER NEW STATE (0 or 1)		
DO7	3x00039 4x00039 I:38	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO7:0=OFF		ENTER NEW STATE (0 or 1)		
DO8	3x00040 4x00040 I:39	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO8:0=OFF		ENTER NEW STATE (0 or 1)		
DO9	3x00041 4x00041 I:40	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO9:0=OFF		ENTER NEW STATE (0 or 1)		

DO10	3x00042 4x00042 I:41	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO10:0=OFF		ENTER NEW STATE (0 or 1)		
DO11	3x00043 4x00043 I:42	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO11:0=OFF		ENTER NEW STATE (0 or 1)		
DO12	3x00044 4x00044 I:43	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO12:0=OFF		ENTER NEW STATE (0 or 1)		
DO13	3x00045 4x00045 I:44	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO13:0=OFF		ENTER NEW STATE (0 or 1)		
DO14	3x00046 4x00046 I:45	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO14:0=OFF		ENTER NEW STATE (0 or 1)		
DO15	3x00047 4x00047 I:46	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO15:0=OFF		ENTER NEW STATE (0 or 1)		
DO16	3x00048 4x00048 I:47	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO16:0=OFF		ENTER NEW STATE (0 or 1)		
DO17	3x00049 4x00049 I:48	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO17:0=OFF		ENTER NEW STATE (0 or 1)		
DO18	3x00050 4x00050 I:49	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO18:0=OFF		ENTER NEW STATE (0 or 1)		
DO19	3x00051 4x00051 I:50	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO19:0=OFF		ENTER NEW STATE (0 or 1)		
DO20	3x00052 4x00052 I:51	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO20:0=OFF		ENTER NEW STATE (0 or 1)		

DO21	3x00053 4x00053 I:52	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO21:0=OFF		ENTER NEW STATE (0 or 1)		
DO22	3x00054 4x00054 I:53	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO22:0=OFF		ENTER NEW STATE (0 or 1)		
DO23	3x00055 4x00055 I:54	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO23:0=OFF		ENTER NEW STATE (0 or 1)		
DO24	3x00056 4x00056 I:55	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO24:0=OFF		ENTER NEW STATE (0 or 1)		
DO25	3x00057 4x00057 I:56	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO25:0=OFF		ENTER NEW STATE (0 or 1)		
DO26	3x00058 4x00058 I:57	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO26:0=OFF		ENTER NEW STATE (0 or 1)		
DO27	3x00059 4x00059 I:58	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO27:0=OFF		ENTER NEW STATE (0 or 1)		
DO28	3x00060 4x00060 I:59	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO28:0=OFF		ENTER NEW STATE (0 or 1)		
DO29	3x00061 4x00061 I:60	0,0x0000 B:00 00		0	UINT16 R/W	NO
		Actual state of DO29:0=OFF		ENTER NEW STATE (0 or 1)		
DO30	3x00062 4x00062 I:61	1,0x0001 B:00 01		0	UINT16 R/W	NO
		Actual state of DO30:1=ON		ENTER NEW STATE (0 or 1)		
DIGITAL OUTPUTS: ENABLE OPEN WIRE DETECTION ON						
ENABLE OPEN WIRE DETECTION ON DO1	3x00063 4x00063 I:62	0,0x0000 B:00 00		1	UINT16 R/W	NO

		Actual setup of open wire detection for state ON of DO1:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
Enables/disabled detection of an open wire in DO state ON for the digital output DOx =0:Open wire detection is OFF, =1:Open wire detection is ON					
Writing on this register changes the state of the open wire detection for this output					
ENABLE OPEN WIRE DETECTION ON DO2	3x00064 4x00064 I:63	0,0x0000 B:00 00	1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO2:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO3	3x00065 4x00065 I:64	0,0x0000 B:00 00	1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO3:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO4	3x00066 4x00066 I:65	0,0x0000 B:00 00	1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO4:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO5	3x00067 4x00067 I:66	0,0x0000 B:00 00	1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO5:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO6	3x00068 4x00068 I:67	0,0x0000 B:00 00	1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO6:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO7	3x00069 4x00069 I:68	0,0x0000 B:00 00	1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO7:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO8	3x00070 4x00070 I:69	0,0x0000 B:00 00	1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO8:0=OFF	ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO9	3x00071 4x00071 I:70	0,0x0000 B:00 00	1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO9:0=OFF	ENTER NEW SETUP MODE (0 or 1)		

ENABLE OPEN WIRE DETECTION ON DO10	3x00072 4x00072 I:71	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO10:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO11	3x00073 4x00073 I:72	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO11:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO12	3x00074 4x00074 I:73	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO12:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO13	3x00075 4x00075 I:74	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO13:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO14	3x00076 4x00076 I:75	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO14:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO15	3x00077 4x00077 I:76	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO15:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO16	3x00078 4x00078 I:77	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO16:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO17	3x00079 4x00079 I:78	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO17:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO18	3x00080 4x00080 I:79	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO18:0=OFF		ENTER NEW SETUP MODE (0 or 1)		

ENABLE OPEN WIRE DETECTION ON DO19	3x00081 4x00081 I:80	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO19:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO20	3x00082 4x00082 I:81	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO20:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO21	3x00083 4x00083 I:82	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO21:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO22	3x00084 4x00084 I:83	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO22:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO23	3x00085 4x00085 I:84	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO23:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO24	3x00086 4x00086 I:85	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO24:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO25	3x00087 4x00087 I:86	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO25:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO26	3x00088 4x00088 I:87	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO26:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION ON DO27	3x00089 4x00089 I:88	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO27:0=OFF		ENTER NEW SETUP MODE (0 or 1)		

ENABLE OPEN WIRE DETECTION ON DO28	3x00090 4x00090 I:89	0,0x0000 B:00 00		1		UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO28:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO29	3x00091 4x00091 I:90	0,0x0000 B:00 00		1		UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO29:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION ON DO30	3x00092 4x00092 I:91	0,0x0000 B:00 00		1		UINT16 R/W	NO
		Actual setup of open wire detection for state ON of DO30:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
DIGITAL OUTPUTS: ENABLE OPEN WIRE DETECTION OFF							
ENABLE OPEN WIRE DETECTION OFF DO1	3x00093 4x00093 I:92	0,0x0000 B:00 00		1		UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO1:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
Enables/disabled detection of an open wire in DO state OFF for the digital output DOx =0:Open wire detection is OFF, =1:Open wire detection is ON							
Writing on this register changes the state of the open wire detection for this output							
ENABLE OPEN WIRE DETECTION OFF DO2	3x00094 4x00094 I:93	0,0x0000 B:00 00		1		UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO2:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO3	3x00095 4x00095 I:94	0,0x0000 B:00 00		1		UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO3:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO4	3x00096 4x00096 I:95	0,0x0000 B:00 00		1		UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO4:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE OPEN WIRE DETECTION OFF DO5	3x00097 4x00097 I:96	0,0x0000 B:00 00		1		UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO5:0=OFF		ENTER NEW SETUP MODE (0 or 1)			

ENABLE OPEN WIRE DETECTION OFF DO6	3x00098 4x00098 I:97	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO6:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO7	3x00099 4x00099 I:98	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO7:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO8	3x00100 4x00100 I:99	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO8:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO9	3x00101 4x00101 I:100	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO9:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO10	3x00102 4x00102 I:101	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO10:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO11	3x00103 4x00103 I:102	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO11:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO12	3x00104 4x00104 I:103	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO12:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO13	3x00105 4x00105 I:104	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO13:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO14	3x00106 4x00106 I:105	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO14:0=OFF		ENTER NEW SETUP MODE (0 or 1)		

ENABLE OPEN WIRE DETECTION OFF DO15	3x00107 4x00107 I:106	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO15:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO16	3x00108 4x00108 I:107	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO16:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO17	3x00109 4x00109 I:108	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO17:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO18	3x00110 4x00110 I:109	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO18:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO19	3x00111 4x00111 I:110	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO19:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO20	3x00112 4x00112 I:111	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO20:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO21	3x00113 4x00113 I:112	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO21:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO22	3x00114 4x00114 I:113	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO22:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO23	3x00115 4x00115 I:114	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO23:0=OFF		ENTER NEW SETUP MODE (0 or 1)		

ENABLE OPEN WIRE DETECTION OFF DO24	3x00116 4x00116 I:115	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO24:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO25	3x00117 4x00117 I:116	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO25:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO26	3x00118 4x00118 I:117	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO26:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO27	3x00119 4x00119 I:118	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO27:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO28	3x00120 4x00120 I:119	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO28:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO29	3x00121 4x00121 I:120	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO29:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE OPEN WIRE DETECTION OFF DO30	3x00122 4x00122 I:121	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO30:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
DIGITAL OUTPUTS: ENABLE SHORT TO VDD DETECTION						
ENABLE SHORT TO VDD DETECTION DO1	3x00123 4x00123 I:122	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO1:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
Enables/disabled detection of a shortcut to VDD in DO state OFF for the digital output DOx =0:Shortcut to VDD detection is OFF, =1:Shortcut to VDD detection is ON						
Writing on this register changes the state of the shortcut detection for this output						

ENABLE SHORT TO VDD DETECTION DO2	3x00124 4x00124 I:123	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO2:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO3	3x00125 4x00125 I:124	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO3:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO4	3x00126 4x00126 I:125	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO4:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO5	3x00127 4x00127 I:126	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO5:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO6	3x00128 4x00128 I:127	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO6:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO7	3x00129 4x00129 I:128	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO7:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO8	3x00130 4x00130 I:129	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO8:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO9	3x00131 4x00131 I:130	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO9:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO10	3x00132 4x00132 I:131	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO10:0=OFF		ENTER NEW SETUP MODE (0 or 1)		

ENABLE SHORT TO VDD DETECTION DO11	3x00133 4x00133 I:132	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO11:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO12	3x00134 4x00134 I:133	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO12:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO13	3x00135 4x00135 I:134	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO13:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO14	3x00136 4x00136 I:135	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO14:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO15	3x00137 4x00137 I:136	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO15:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO16	3x00138 4x00138 I:137	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO16:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO17	3x00139 4x00139 I:138	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO17:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO18	3x00140 4x00140 I:139	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO18:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO19	3x00141 4x00141 I:140	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO19:0=OFF		ENTER NEW SETUP MODE (0 or 1)		

ENABLE SHORT TO VDD DETECTION DO20	3x00142 4x00142 I:141	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO20:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO21	3x00143 4x00143 I:142	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO21:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO22	3x00144 4x00144 I:143	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO22:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO23	3x00145 4x00145 I:144	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO23:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO24	3x00146 4x00146 I:145	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO24:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO25	3x00147 4x00147 I:146	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO25:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO26	3x00148 4x00148 I:147	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO26:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO27	3x00149 4x00149 I:148	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO27:0=OFF		ENTER NEW SETUP MODE (0 or 1)		
ENABLE SHORT TO VDD DETECTION DO28	3x00150 4x00150 I:149	0,0x0000 B:00 00		1	UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO28:0=OFF		ENTER NEW SETUP MODE (0 or 1)		

ENABLE SHORT TO VDD DETECTION DO29	3x00151 4x00151 I:150	0,0x0000 B:00 00		1		UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO29:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
ENABLE SHORT TO VDD DETECTION DO30	3x00152 4x00152 I:151	0,0x0000 B:00 00		1		UINT16 R/W	NO
		Actual setup of open wire detection for state OFF of DO30:0=OFF		ENTER NEW SETUP MODE (0 or 1)			
DIGITAL OUTPUTS: OPEN WIRE DETECTION STATUS WHILE ON							
OPEN WIRE FAULT WHILE ON DO1	3x00153 4x00153 I:152	0,0x0000 B:00 00				UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO1:0=OK					
The current detection state of an open wire in the output state ON for the digital output DOx =0:No fault, =1:Fault-open wire detected							
OPEN WIRE FAULT WHILE ON DO2	3x00154 4x00154 I:153	0,0x0000 B:00 00				UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO2:0=OK					
OPEN WIRE FAULT WHILE ON DO3	3x00155 4x00155 I:154	0,0x0000 B:00 00				UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO3:0=OK					
OPEN WIRE FAULT WHILE ON DO4	3x00156 4x00156 I:155	0,0x0000 B:00 00				UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO4:0=OK					
OPEN WIRE FAULT WHILE ON DO5	3x00157 4x00157 I:156	0,0x0000 B:00 00				UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO5:0=OK					
OPEN WIRE FAULT WHILE ON DO6	3x00158 4x00158 I:157	0,0x0000 B:00 00				UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO6:0=OK					
OPEN WIRE FAULT WHILE ON DO7	3x00159 4x00159 I:158	0,0x0000 B:00 00				UINT16 R/O	

		Actual detection state of an open wire fault in state ON for DO7:0=OK			
OPEN WIRE FAULT WHILE ON DO8	3x00160 4x00160 I:159	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO8:0=OK			
OPEN WIRE FAULT WHILE ON DO9	3x00161 4x00161 I:160	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO9:0=OK			
OPEN WIRE FAULT WHILE ON DO10	3x00162 4x00162 I:161	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO10:0=OK			
OPEN WIRE FAULT WHILE ON DO11	3x00163 4x00163 I:162	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO11:0=OK			
OPEN WIRE FAULT WHILE ON DO12	3x00164 4x00164 I:163	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO12:0=OK			
OPEN WIRE FAULT WHILE ON DO13	3x00165 4x00165 I:164	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO13:0=OK			
OPEN WIRE FAULT WHILE ON DO14	3x00166 4x00166 I:165	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO14:0=OK			
OPEN WIRE FAULT WHILE ON DO15	3x00167 4x00167 I:166	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO15:0=OK			
OPEN WIRE FAULT WHILE ON DO16	3x00168 4x00168 I:167	0,0x0000 B:00 00		UINT16 R/O	

		Actual detection state of an open wire fault in state ON for DO16:0=OK			
OPEN WIRE FAULT WHILE ON DO17	3x00169 4x00169 I:168	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO17:0=OK			
OPEN WIRE FAULT WHILE ON DO18	3x00170 4x00170 I:169	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO18:0=OK			
OPEN WIRE FAULT WHILE ON DO19	3x00171 4x00171 I:170	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO19:0=OK			
OPEN WIRE FAULT WHILE ON DO20	3x00172 4x00172 I:171	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO20:0=OK			
OPEN WIRE FAULT WHILE ON DO21	3x00173 4x00173 I:172	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO21:0=OK			
OPEN WIRE FAULT WHILE ON DO22	3x00174 4x00174 I:173	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO22:0=OK			
OPEN WIRE FAULT WHILE ON DO23	3x00175 4x00175 I:174	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO23:0=OK			
OPEN WIRE FAULT WHILE ON DO24	3x00176 4x00176 I:175	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of an open wire fault in state ON for DO24:0=OK			
OPEN WIRE FAULT WHILE ON DO25	3x00177 4x00177 I:176	0,0x0000 B:00 00		UINT16 R/O	

		Actual detection state of an open wire fault in state ON for DO25:0=OK			
OPEN WIRE FAULT WHILE ON DO26	3x00178 4x00178 I:177	0,0x0000 B:00 00			UINT16 R/O
		Actual detection state of an open wire fault in state ON for DO26:0=OK			
OPEN WIRE FAULT WHILE ON DO27	3x00179 4x00179 I:178	0,0x0000 B:00 00			UINT16 R/O
		Actual detection state of an open wire fault in state ON for DO27:0=OK			
OPEN WIRE FAULT WHILE ON DO28	3x00180 4x00180 I:179	0,0x0000 B:00 00			UINT16 R/O
		Actual detection state of an open wire fault in state ON for DO28:0=OK			
OPEN WIRE FAULT WHILE ON DO29	3x00181 4x00181 I:180	0,0x0000 B:00 00			UINT16 R/O
		Actual detection state of an open wire fault in state ON for DO29:0=OK			
OPEN WIRE FAULT WHILE ON DO30	3x00182 4x00182 I:181	0,0x0000 B:00 00			UINT16 R/O
		Actual detection state of an open wire fault in state ON for DO30:0=OK			
DIGITAL OUTPUTS: OPEN WIRE DETECTION STATUS WHILE OFF					
OPEN WIRE FAULT WHILE OFF DO1	3x00183 4x00183 I:182	0,0x0000 B:00 00			UINT16 R/O
		Actual detection state of an open wire fault in state OFF for DO1:0=OK			
The current detection state of an open wire in the output state OFF for the digital output DOx =0:No fault, =1:Fault-open wire detected					
OPEN WIRE FAULT WHILE OFF DO2	3x00184 4x00184 I:183	0,0x0000 B:00 00			UINT16 R/O
		Actual detection state of an open wire fault in state OFF for DO2:0=OK			
OPEN WIRE FAULT WHILE OFF DO3	3x00185 4x00185 I:184	0,0x0000 B:00 00			UINT16 R/O
		Actual detection state of an open wire fault in state OFF for DO3:0=OK			

OPEN WIRE FAULT WHILE OFF DO4	3x00186 4x00186 I:185	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO4:0=OK				
OPEN WIRE FAULT WHILE OFF DO5	3x00187 4x00187 I:186	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO5:0=OK				
OPEN WIRE FAULT WHILE OFF DO6	3x00188 4x00188 I:187	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO6:0=OK				
OPEN WIRE FAULT WHILE OFF DO7	3x00189 4x00189 I:188	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO7:0=OK				
OPEN WIRE FAULT WHILE OFF DO8	3x00190 4x00190 I:189	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO8:0=OK				
OPEN WIRE FAULT WHILE OFF DO9	3x00191 4x00191 I:190	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO9:0=OK				
OPEN WIRE FAULT WHILE OFF DO10	3x00192 4x00192 I:191	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO10:0=OK				
OPEN WIRE FAULT WHILE OFF DO11	3x00193 4x00193 I:192	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO11:0=OK				
OPEN WIRE FAULT WHILE OFF DO12	3x00194 4x00194 I:193	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO12:0=OK				

OPEN WIRE FAULT WHILE OFF DO13	3x00195 4x00195 I:194	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO13:0=OK				
OPEN WIRE FAULT WHILE OFF DO14	3x00196 4x00196 I:195	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO14:0=OK				
OPEN WIRE FAULT WHILE OFF DO15	3x00197 4x00197 I:196	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO15:0=OK				
OPEN WIRE FAULT WHILE OFF DO16	3x00198 4x00198 I:197	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO16:0=OK				
OPEN WIRE FAULT WHILE OFF DO17	3x00199 4x00199 I:198	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO17:0=OK				
OPEN WIRE FAULT WHILE OFF DO18	3x00200 4x00200 I:199	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO18:0=OK				
OPEN WIRE FAULT WHILE OFF DO19	3x00201 4x00201 I:200	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO19:0=OK				
OPEN WIRE FAULT WHILE OFF DO20	3x00202 4x00202 I:201	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO20:0=OK				
OPEN WIRE FAULT WHILE OFF DO21	3x00203 4x00203 I:202	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO21:0=OK				

OPEN WIRE FAULT WHILE OFF DO22	3x00204 4x00204 I:203	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO22:0=OK				
OPEN WIRE FAULT WHILE OFF DO23	3x00205 4x00205 I:204	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO23:0=OK				
OPEN WIRE FAULT WHILE OFF DO24	3x00206 4x00206 I:205	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO24:0=OK				
OPEN WIRE FAULT WHILE OFF DO25	3x00207 4x00207 I:206	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO25:0=OK				
OPEN WIRE FAULT WHILE OFF DO26	3x00208 4x00208 I:207	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO26:0=OK				
OPEN WIRE FAULT WHILE OFF DO27	3x00209 4x00209 I:208	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO27:0=OK				
OPEN WIRE FAULT WHILE OFF DO28	3x00210 4x00210 I:209	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO28:0=OK				
OPEN WIRE FAULT WHILE OFF DO29	3x00211 4x00211 I:210	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO29:0=OK				
OPEN WIRE FAULT WHILE OFF DO30	3x00212 4x00212 I:211	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of an open wire fault in state OFF for DO30:0=OK				

DIGITAL OUTPUTS: SHORTCUT DETECTION STATUS TO VDD WHILE OFF

OPEN WIRE SHORTCUT TO VDD DO1	3x00213 4x00213 I:212	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO1:0=OK				
The current detection state of a shortcut to VDD in the output state OFF for the digital output DOx =0:No fault, =1:Fault-shortcut to VDD detected						
OPEN WIRE SHORTCUT TO VDD DO2	3x00214 4x00214 I:213	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO2:0=OK				
OPEN WIRE SHORTCUT TO VDD DO3	3x00215 4x00215 I:214	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO3:0=OK				
OPEN WIRE SHORTCUT TO VDD DO4	3x00216 4x00216 I:215	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO4:0=OK				
OPEN WIRE SHORTCUT TO VDD DO5	3x00217 4x00217 I:216	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO5:0=OK				
OPEN WIRE SHORTCUT TO VDD DO6	3x00218 4x00218 I:217	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO6:0=OK				
OPEN WIRE SHORTCUT TO VDD DO7	3x00219 4x00219 I:218	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO7:0=OK				

OPEN WIRE SHORTCUT TO VDD DO8	3x00220 4x00220 I:219	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO8:0=OK				
OPEN WIRE SHORTCUT TO VDD DO9	3x00221 4x00221 I:220	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO9:0=OK				
OPEN WIRE SHORTCUT TO VDD DO10	3x00222 4x00222 I:221	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO10:0=OK				
OPEN WIRE SHORTCUT TO VDD DO11	3x00223 4x00223 I:222	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO11:0=OK				
OPEN WIRE SHORTCUT TO VDD DO12	3x00224 4x00224 I:223	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO12:0=OK				
OPEN WIRE SHORTCUT TO VDD DO13	3x00225 4x00225 I:224	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO13:0=OK				
OPEN WIRE SHORTCUT TO VDD DO14	3x00226 4x00226 I:225	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO14:0=OK				
OPEN WIRE SHORTCUT TO VDD DO15	3x00227 4x00227 I:226	0,0x0000 B:00 00			UINT16 R/O	

		Actual detection state of a shortcut to VDD in state OFF for VDD DO15:0=OK			
OPEN WIRE SHORTCUT TO VDD DO16	3x00228 4x00228 I:227	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO16:0=OK			
OPEN WIRE SHORTCUT TO VDD DO17	3x00229 4x00229 I:228	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO17:0=OK			
OPEN WIRE SHORTCUT TO VDD DO18	3x00230 4x00230 I:229	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO18:0=OK			
OPEN WIRE SHORTCUT TO VDD DO19	3x00231 4x00231 I:230	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO19:0=OK			
OPEN WIRE SHORTCUT TO VDD DO20	3x00232 4x00232 I:231	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO20:0=OK			
OPEN WIRE SHORTCUT TO VDD DO21	3x00233 4x00233 I:232	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO21:0=OK			
OPEN WIRE SHORTCUT TO VDD DO22	3x00234 4x00234 I:233	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO22:0=OK			

OPEN WIRE SHORTCUT TO VDD DO23	3x00235 4x00235 I:234	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO23:0=OK				
OPEN WIRE SHORTCUT TO VDD DO24	3x00236 4x00236 I:235	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO24:0=OK				
OPEN WIRE SHORTCUT TO VDD DO25	3x00237 4x00237 I:236	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO25:0=OK				
OPEN WIRE SHORTCUT TO VDD DO26	3x00238 4x00238 I:237	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO26:0=OK				
OPEN WIRE SHORTCUT TO VDD DO27	3x00239 4x00239 I:238	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO27:0=OK				
OPEN WIRE SHORTCUT TO VDD DO28	3x00240 4x00240 I:239	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO28:0=OK				
OPEN WIRE SHORTCUT TO VDD DO29	3x00241 4x00241 I:240	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a shortcut to VDD in state OFF for VDD DO29:0=OK				
OPEN WIRE SHORTCUT TO VDD DO30	3x00242 4x00242 I:241	0,0x0000 B:00 00			UINT16 R/O	

		Actual detection state of a shortcut to VDD in state OFF for VDD DO30:0=OK			
DIGITAL OUTPUTS: THERMAL OVERLOAD DETECTION STATUS					
THERMAL OVERLOAD DETECTION STATUS DO1	3x00243 4x00243 I:242	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of a thermal overload for DO1:0=OK			
The current detection state of a thermal overload for the digital output DOx =0:No fault, =1:Fault-thermal overload detected					
THERMAL OVERLOAD DETECTION STATUS DO2	3x00244 4x00244 I:243	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of a thermal overload for DO2:0=OK			
THERMAL OVERLOAD DETECTION STATUS DO3	3x00245 4x00245 I:244	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of a thermal overload for DO3:0=OK			
THERMAL OVERLOAD DETECTION STATUS DO4	3x00246 4x00246 I:245	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of a thermal overload for DO4:0=OK			
THERMAL OVERLOAD DETECTION STATUS DO5	3x00247 4x00247 I:246	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of a thermal overload for DO5:0=OK			
THERMAL OVERLOAD DETECTION STATUS DO6	3x00248 4x00248 I:247	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of a thermal overload for DO6:0=OK			
THERMAL OVERLOAD DETECTION STATUS DO7	3x00249 4x00249 I:248	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of a thermal overload for DO7:0=OK			
THERMAL OVERLOAD DETECTION STATUS DO8	3x00250 4x00250 I:249	0,0x0000 B:00 00		UINT16 R/O	
		Actual detection state of a thermal overload for DO8:0=OK			

THERMAL OVERLOAD DETECTION STATUS DO9	3x00251 4x00251 I:250	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a thermal overload for DO9:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO10	3x00252 4x00252 I:251	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a thermal overload for DO10:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO11	3x00253 4x00253 I:252	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a thermal overload for DO11:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO12	3x00254 4x00254 I:253	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a thermal overload for DO12:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO13	3x00255 4x00255 I:254	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a thermal overload for DO13:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO14	3x00256 4x00256 I:255	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a thermal overload for DO14:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO15	3x00257 4x00257 I:256	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a thermal overload for DO15:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO16	3x00258 4x00258 I:257	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a thermal overload for DO16:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO17	3x00259 4x00259 I:258	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a thermal overload for DO17:0=OK				

THERMAL OVERLOAD DETECTION STATUS DO18	3x00260 4x00260 I:259	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a thermal overload for DO18:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO19	3x00261 4x00261 I:260	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a thermal overload for DO19:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO20	3x00262 4x00262 I:261	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a thermal overload for DO20:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO21	3x00263 4x00263 I:262	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a thermal overload for DO21:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO22	3x00264 4x00264 I:263	0,0x0000 B:00 00			UINT16 R/O	
		Actual detection state of a thermal overload for DO22:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO23	3x00265 4x00265 I:264	????			UINT16 R/O	
		Actual detection state of a thermal overload for DO23:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO24	3x00266 4x00266 I:265	????			UINT16 R/O	
		Actual detection state of a thermal overload for DO24:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO25	3x00267 4x00267 I:266	????			UINT16 R/O	
		Actual detection state of a thermal overload for DO25:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO26	3x00268 4x00268 I:267	????			UINT16 R/O	
		Actual detection state of a thermal overload for DO26:0=OK				

THERMAL OVERLOAD DETECTION STATUS DO27	3x00269 4x00269 I:268	????			UINT16 R/O	
		Actual detection state of a thermal overload for DO27:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO28	3x00270 4x00270 I:269	????			UINT16 R/O	
		Actual detection state of a thermal overload for DO28:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO29	3x00271 4x00271 I:270	????			UINT16 R/O	
		Actual detection state of a thermal overload for DO29:0=OK				
THERMAL OVERLOAD DETECTION STATUS DO30	3x00272 4x00272 I:271	????			UINT16 R/O	
		Actual detection state of a thermal overload for DO30:0=OK				
DIGITAL OUTPUTS: CURRENT LIMIT DETECTION STATUS WHILE ON						
CURRENT LIMIT DETECTION STATUS WHILE ON DO1	3x00273 4x00273 I:272	????			UINT16 R/O	
		Actual detection state of a current limit while ON for DO1:0=OK				
The current detection state of a current limit while output is ON for the digital output DOx =0:No fault, =1:Fault-current limit error						
CURRENT LIMIT DETECTION STATUS WHILE ON DO2	3x00274 4x00274 I:273	????			UINT16 R/O	
		Actual detection state of a current limit while ON for DO2:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO3	3x00275 4x00275 I:274	????			UINT16 R/O	
		Actual detection state of a current limit while ON for DO3:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO4	3x00276 4x00276 I:275	????			UINT16 R/O	
		Actual detection state of a current limit while ON for DO4:0=OK				
CURRENT LIMIT DETECTION STATUS WHILE ON DO5	3x00277 4x00277 I:276	????			UINT16 R/O	

		Actual detection state of a current limit while ON for DO5:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO6	3x00278 4x00278 I:277	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO6:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO7	3x00279 4x00279 I:278	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO7:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO8	3x00280 4x00280 I:279	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO8:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO9	3x00281 4x00281 I:280	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO9:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO10	3x00282 4x00282 I:281	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO10:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO11	3x00283 4x00283 I:282	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO11:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO12	3x00284 4x00284 I:283	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO12:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO13	3x00285 4x00285 I:284	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO13:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO14	3x00286 4x00286 I:285	????		UINT16 R/O	

		Actual detection state of a current limit while ON for DO14:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO15	3x00287 4x00287 I:286	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO15:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO16	3x00288 4x00288 I:287	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO16:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO17	3x00289 4x00289 I:288	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO17:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO18	3x00290 4x00290 I:289	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO18:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO19	3x00291 4x00291 I:290	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO19:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO20	3x00292 4x00292 I:291	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO20:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO21	3x00293 4x00293 I:292	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO21:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO22	3x00294 4x00294 I:293	????		UINT16 R/O	
		Actual detection state of a current limit while ON for DO22:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO23	3x00295 4x00295 I:294	????		UINT16 R/O	

		Actual detection state of a current limit while ON for DO23:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO24	3x00296 4x00296 I:295	????			UINT16 R/O
		Actual detection state of a current limit while ON for DO24:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO25	3x00297 4x00297 I:296	????			UINT16 R/O
		Actual detection state of a current limit while ON for DO25:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO26	3x00298 4x00298 I:297	????			UINT16 R/O
		Actual detection state of a current limit while ON for DO26:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO27	3x00299 4x00299 I:298	????			UINT16 R/O
		Actual detection state of a current limit while ON for DO27:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO28	3x00300 4x00300 I:299	????			UINT16 R/O
		Actual detection state of a current limit while ON for DO28:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO29	3x00301 4x00301 I:300	????			UINT16 R/O
		Actual detection state of a current limit while ON for DO29:0=OK			
CURRENT LIMIT DETECTION STATUS WHILE ON DO30	3x00302 4x00302 I:301	????			UINT16 R/O
		Actual detection state of a current limit while ON for DO30:0=OK			
DIGITAL OUTPUTS: GLOBAL ERRORS					
CHIP #1:DO1-DO8					
GLOBAL ERRORS BIT 0	3x00303 4x00303 I:302	????			UINT16 R/O
		BIT 0:Internal under voltage detected:0=OK			
GLOBAL ERRORS BIT 1	3x00304 4x00304 I:303	????			UINT16 R/O

		BIT 1:VA under voltage detected (<2.3V):0=OK				
GLOBAL ERRORS BIT 2	3x00305 4x00305 I:304	????			UINT16 R/O	
		BIT 2:VDD not good detected (<17V):0=OK				
GLOBAL ERRORS BIT 3	3x00306 4x00306 I:305	????			UINT16 R/O	
		BIT 3:VDD warning detected (<12V):0=OK				
GLOBAL ERRORS BIT 4	3x00307 4x00307 I:306	????			UINT16 R/O	
		BIT 4:VDD under voltage detected (<8V):0=OK				
GLOBAL ERRORS BIT 5	3x00308 4x00308 I:307	????			UINT16 R/O	
		BIT 5:Thermal shutdown:0=OK				
GLOBAL ERRORS BIT 6	3x00309 4x00309 I:308	????			UINT16 R/O	
		BIT 6:Synchronisation error detected:0=OK				
GLOBAL ERRORS BIT 7	3x00310 4x00310 I:309	????			UINT16 R/O	
		BIT 7:Watchdog error detected:0=OK				
The global error state for the output group. Each bit stands for a different error =0:No fault, =1:Fault						
DIGITAL OUTPUTS: GLOBAL ERRORS						
CHIP #2:DO9-DO15						
GLOBAL ERRORS BIT 0	3x00311 4x00311 I:310	????			UINT16 R/O	
		BIT 0:Internal under voltage detected:0=OK				
GLOBAL ERRORS BIT 1	3x00312 4x00312 I:311	????			UINT16 R/O	
		BIT 1:VA under voltage detected (<2.3V):0=OK				
GLOBAL ERRORS BIT 2	3x00313 4x00313 I:312	????			UINT16 R/O	
		BIT 2:VDD not good detected (<17V):0=OK				
GLOBAL ERRORS BIT 3	3x00314 4x00314 I:313	????			UINT16 R/O	
		BIT 3:VDD warning detected (<12V):0=OK				

GLOBAL ERRORS BIT 4	3x00315 4x00315 I:314	????			UINT16 R/O	
		BIT 4:VDD under voltage detected (<8V):0=OK				
GLOBAL ERRORS BIT 5	3x00316 4x00316 I:315	????			UINT16 R/O	
		BIT 5:Thermal shutdown:0=OK				
GLOBAL ERRORS BIT 6	3x00317 4x00317 I:316	????			UINT16 R/O	
		BIT 6:Synchronisation error detected:0=OK				
GLOBAL ERRORS BIT 7	3x00318 4x00318 I:317	????			UINT16 R/O	
		BIT 7:Watchdog error detected:0=OK				
The global error state for the output group. Each bit stands for a different error =0:No fault, =1:Fault						
DIGITAL OUTPUTS: GLOBAL ERRORS						
CHIP #3:DO16-DO23						
GLOBAL ERRORS BIT 0	3x00319 4x00319 I:318	????			UINT16 R/O	
		BIT 0:Internal under voltage detected:0=OK				
GLOBAL ERRORS BIT 1	3x00320 4x00320 I:319	????			UINT16 R/O	
		BIT 1:VA under voltage detected (<2.3V):0=OK				
GLOBAL ERRORS BIT 2	3x00321 4x00321 I:320	????			UINT16 R/O	
		BIT 2:VDD not good detected (<17V):0=OK				
GLOBAL ERRORS BIT 3	3x00322 4x00322 I:321	????			UINT16 R/O	
		BIT 3:VDD warning detected (<12V):0=OK				
GLOBAL ERRORS BIT 4	3x00323 4x00323 I:322	????			UINT16 R/O	
		BIT 4:VDD under voltage detected (<8V):0=OK				
GLOBAL ERRORS BIT 5	3x00324 4x00324 I:323	????			UINT16 R/O	
		BIT 5:Thermal shutdown:0=OK				

GLOBAL ERRORS BIT 6	3x00325 4x00325 I:324	????			UINT16 R/O	
		BIT 6:Synchronisation error detected:0=OK				
GLOBAL ERRORS BIT 7	3x00326 4x00326 I:325	????			UINT16 R/O	
		BIT 7:Watchdog error detected:0=OK				
The global error state for the output group. Each bit stands for a different error =0:No fault, =1:Fault						
DIGITAL OUTPUTS: GLOBAL ERRORS						
CHIP #4:DO24-DO30						
GLOBAL ERRORS BIT 0	3x00327 4x00327 I:326	????			UINT16 R/O	
		BIT 0:Internal under voltage detected:0=OK				
GLOBAL ERRORS BIT 1	3x00328 4x00328 I:327	????			UINT16 R/O	
		BIT 1:VA under voltage detected (<2.3V):0=OK				
GLOBAL ERRORS BIT 2	3x00329 4x00329 I:328	????			UINT16 R/O	
		BIT 2:VDD not good detected (<17V):0=OK				
GLOBAL ERRORS BIT 3	3x00330 4x00330 I:329	????			UINT16 R/O	
		BIT 3:VDD warning detected (<12V):0=OK				
GLOBAL ERRORS BIT 4	3x00331 4x00331 I:330	????			UINT16 R/O	
		BIT 4:VDD under voltage detected (<8V):0=OK				
GLOBAL ERRORS BIT 5	3x00332 4x00332 I:331	????			UINT16 R/O	
		BIT 5:Thermal shutdown:0=OK				
GLOBAL ERRORS BIT 6	3x00333 4x00333 I:332	????			UINT16 R/O	
		BIT 6:Synchronisation error detected:0=OK				
GLOBAL ERRORS BIT 7	3x00334 4x00334 I:333	????			UINT16 R/O	
		BIT 7:Watchdog error detected:0=OK				
The global error state for the output group. Each bit stands for a different error =0:No fault, =1:Fault						

DIGITAL OUTPUTS: INTERRUPT STATUS**CHIP #1:DO1-DO8**

INTERRUPT STATUS BIT 0	3x00335 4x00335 I:334	????			UINT16 R/O	
		BIT 0:Overload detected:0=OK				
INTERRUPT STATUS BIT 1	3x00336 4x00336 I:335	????			UINT16 R/O	
		BIT 1:Current limit detected:0=OK				
INTERRUPT STATUS BIT 2	3x00337 4x00337 I:336	????			UINT16 R/O	
		BIT 2:Open wire while OFF detected:0=OK				
INTERRUPT STATUS BIT 3	3x00338 4x00338 I:337	????			UINT16 R/O	
		BIT 3:Open wire while ON detected:0=OK				
INTERRUPT STATUS BIT 4	3x00339 4x00339 I:338	????			UINT16 R/O	
		BIT 4:Short to VDD while ON detected:0=OK				
INTERRUPT STATUS BIT 5	3x00340 4x00340 I:339	????			UINT16 R/O	
		BIT 5:Thermal error detected-shutdown:0=OK				
INTERRUPT STATUS BIT 6	3x00341 4x00341 I:340	????			UINT16 R/O	
		BIT 6:Supply error detected:0=OK				
INTERRUPT STATUS BIT 7	3x00342 4x00342 I:341	????			UINT16 R/O	
		BIT 7:Communication error detected:0=OK				

The global interrupt error state for the output group. Each bit stands for a different error
 =0:No fault, =1:Fault

DIGITAL OUTPUTS: INTERRUPT STATUS**CHIP #2:DO9-DO15**

INTERRUPT STATUS BIT 0	3x00343 4x00343 I:342	????			UINT16 R/O	
		BIT 0:Overload detected:0=OK				
INTERRUPT STATUS BIT 1	3x00344 4x00344 I:343	????			UINT16 R/O	
		BIT 1:Current limit detected:0=OK				

INTERRUPT STATUS BIT 2	3x00345 4x00345 I:344	????			UINT16 R/O	
		BIT 2:Open wire while OFF detected:0=OK				
INTERRUPT STATUS BIT 3	3x00346 4x00346 I:345	????			UINT16 R/O	
		BIT 3:Open wire while ON detected:0=OK				
INTERRUPT STATUS BIT 4	3x00347 4x00347 I:346	????			UINT16 R/O	
		BIT 4:Short to VDD while ON detected:0=OK				
INTERRUPT STATUS BIT 5	3x00348 4x00348 I:347	????			UINT16 R/O	
		BIT 5:Thermal error detected-shutdown:0=OK				
INTERRUPT STATUS BIT 6	3x00349 4x00349 I:348	????			UINT16 R/O	
		BIT 6:Supply error detected:0=OK				
INTERRUPT STATUS BIT 7	3x00350 4x00350 I:349	????			UINT16 R/O	
		BIT 7:Communication error detected:0=OK				

The global interrupt error state for the output group. Each bit stands for a different error

=0:No fault, =1:Fault

DIGITAL OUTPUTS: INTERRUPT STATUS

CHIP #3:DO16-DO23

INTERRUPT STATUS BIT 0	3x00351 4x00351 I:350	????			UINT16 R/O	
		BIT 0:Overload detected:0=OK				
INTERRUPT STATUS BIT 1	3x00352 4x00352 I:351	????			UINT16 R/O	
		BIT 1:Current limit detected:0=OK				
INTERRUPT STATUS BIT 2	3x00353 4x00353 I:352	????			UINT16 R/O	
		BIT 2:Open wire while OFF detected:0=OK				
INTERRUPT STATUS BIT 3	3x00354 4x00354 I:353	????			UINT16 R/O	
		BIT 3:Open wire while ON detected:0=OK				

INTERRUPT STATUS BIT 4	3x00355 4x00355 I:354	????			UINT16 R/O	
		BIT 4:Short to VDD while ON detected:0=OK				
INTERRUPT STATUS BIT 5	3x00356 4x00356 I:355	????			UINT16 R/O	
		BIT 5:Thermal error detected-shutdown:0=OK				
INTERRUPT STATUS BIT 6	3x00357 4x00357 I:356	????			UINT16 R/O	
		BIT 6:Supply error detected:0=OK				
INTERRUPT STATUS BIT 7	3x00358 4x00358 I:357	????			UINT16 R/O	
		BIT 7:Communication error detected:0=OK				

The global interrupt error state for the output group. Each bit stands for a different error
=0:No fault, =1:Fault

DIGITAL OUTPUTS: INTERRUPT STATUS**CHIP #4:DO24-DO30**

INTERRUPT STATUS BIT 0	3x00359 4x00359 I:358	????			UINT16 R/O	
		BIT 0:Overload detected:0=OK				
INTERRUPT STATUS BIT 1	3x00360 4x00360 I:359	????			UINT16 R/O	
		BIT 1:Current limit detected:0=OK				
INTERRUPT STATUS BIT 2	3x00361 4x00361 I:360	????			UINT16 R/O	
		BIT 2:Open wire while OFF detected:0=OK				
INTERRUPT STATUS BIT 3	3x00362 4x00362 I:361	????			UINT16 R/O	
		BIT 3:Open wire while ON detected:0=OK				
INTERRUPT STATUS BIT 4	3x00363 4x00363 I:362	????			UINT16 R/O	
		BIT 4:Short to VDD while ON detected:0=OK				
INTERRUPT STATUS BIT 5	3x00364 4x00364 I:363	????			UINT16 R/O	
		BIT 5:Thermal error detected-shutdown:0=OK				

INTERRUPT STATUS BIT 6	3x00365 4x00365 I:364	????			UINT16 R/O	
		BIT 6:Supply error detected:0=OK				
INTERRUPT STATUS BIT 7	3x00366 4x00366 I:365	????			UINT16 R/O	
		BIT 7:Communication error detected:0=OK				
The global interrupt error state for the output group. Each bit stands for a different error =0:No fault, =1:Fault						
SPI COMMUNICATION DIGITAL OUTPUTS						
SPI COMMUNICATION CHIP #1: DO1-DO8	3x00367 4x00367 I:366	????			UINT16 R/O	
		Actual SPI communication state:0=NO FAULT				
The current monitoring state of the SPI communication for the digital output group =0:No fault, =1:Fault						
SPI COMMUNICATION CHIP #2: DO9-DO15	3x00368 4x00368 I:367	????			UINT16 R/O	
		Actual SPI communication state:0=NO FAULT				
The current monitoring state of the SPI communication for the digital output group =0:No fault, =1:Fault						
SPI COMMUNICATION CHIP #3: DO16-DO23	3x00369 4x00369 I:368	????			UINT16 R/O	
		Actual SPI communication state:0=NO FAULT				
The current monitoring state of the SPI communication for the digital output group =0:No fault, =1:Fault						
SPI COMMUNICATION CHIP #4: DO24-DO30	3x00370 4x00370 I:369	????			UINT16 R/O	
		Actual SPI communication state:0=NO FAULT				
DIGITAL INPUTS: RESET						
RESET COUNTERS	3x10000 4x10000 I:9999	????		1:PERFORM RESET	UINT16 R/W	NO
If this register is written to 1, all internal edge counters and event counters are set to 0. 0 is always returned when reading.						
HAS DIS CHANGED	3x10001 4x10001 I:10000	????			UINT16 R/O	
		0 event(s)				
As soon as the module registrates an event on one of the available digital inputs, this global event counter is incremented by 1. Possible events are: Detection of a short keypress Detection of the start of a long keypress Detection of the end of a long keypress						

STATUS OF ALL DIS DI1..DI16	3x10002 4x10002 I:10001	????			UINT16 R/O	
		Actual state of DI1:0=OFF				
		Actual state of DI2:0=OFF				
		Actual state of DI3:0=OFF				
		Actual state of DI4:0=OFF				
		Actual state of DI5:0=OFF				
		Actual state of DI6:0=OFF				
		Actual state of DI7:0=OFF				
		Actual state of DI8:0=OFF				
		Actual state of DI9:0=OFF				
		Actual state of DI10:0=OFF				
		Actual state of DI11:0=OFF				
		Actual state of DI12:0=OFF				
		Actual state of DI13:0=OFF				
		Actual state of DI14:0=OFF				
		Actual state of DI15:0=OFF				
		Actual state of DI16:0=OFF				
Actual state of all digital inputs DI1..DI12 Bit 0: =0:DI1 is OFF, =1:DI1 is ON Bit 1: =0:DI2 is OFF, =1:DI2 is ON ... Bit 14: =0:DI15 is OFF, =1:DI15 is ON Bit 15: =0:DI16 is OFF, =1:DI16 is ON						
STATUS OF ALL DIS DI17..DI32	3x10003 4x10003 I:10002	????			UINT16 R/O	
		Actual state of DI17:0=OFF				
		Actual state of DI18:0=OFF				
		Actual state of DI19:0=OFF				
		Actual state of DI20:0=OFF				
		Actual state of DI21:0=OFF				
		Actual state of DI22:0=OFF				
		Actual state of DI23:0=OFF				
		Actual state of DI24:0=OFF				
		Actual state of DI25:0=OFF				
		Actual state of DI26:0=OFF				
		Actual state of DI27:0=OFF				
		Actual state of DI28:0=OFF				
		Actual state of DI29:0=OFF				
		Actual state of DI30:0=OFF				
		Actual state of DI31:0=OFF				
		Actual state of DI32:0=OFF				

Actual state of all digital inputs DI1..DI12 Bit 0: =0:DI17 is OFF, =1:DI17 is ON Bit 1: =0:DI18 is OFF, =1:DI18 is ON ... Bit 14: =0:DI31 is OFF, =1:DI31 is ON Bit 15: =0:DI32 is OFF, =1:DI32 is ON						
STATUS OF DIGITAL OUTPUTS						
STATUS OF ALL DOS DO1-DO16	3x10004 4x10004 l:10003	????		0xFFFF	UINT16 R/W	NO
		Actual state of DO1:0=OFF	1			
		Actual state of DO2:0=OFF	1			
		Actual state of DO3:0=OFF	1			
		Actual state of DO4:0=OFF	1			
		Actual state of DO5:0=OFF	1			
		Actual state of DO6:0=OFF	1			
		Actual state of DO7:0=OFF	1			
		Actual state of DO8:0=OFF	1			
		Actual state of DO9:0=OFF	1			
		Actual state of DO10:0=OFF	1			
		Actual state of DO11:0=OFF	1			
		Actual state of DO12:0=OFF	1			
		Actual state of DO13:0=OFF	1			
		Actual state of DO14:0=OFF	1			
		Actual state of DO15:0=OFF	1			
		Actual state of DO16:0=OFF	1			
Actual state of all digital outputs Bit 0: =0:DO1 is OFF, =1:DO1 is ON Bit 1: =0:DO2 is OFF, =1:DO2 is ON ... Bit 14: =0:DO15 is OFF, =1:DO15 is ON Bit 15: =0:DO16 is OFF, =1:DO16 is ON						
Write on this register sets all digital outputs to a new state						
STATUS OF ALL DOS DO17-DO30	3x10005 4x10005 l:10004	????		0x3FFF	UINT16 R/W	NO
		Actual state of DO17:0=OFF	1			
		Actual state of DO18:0=OFF	1			
		Actual state of DO19:0=OFF	1			
		Actual state of DO20:0=OFF	1			
		Actual state of DO21:0=OFF	1			
		Actual state of DO22:0=OFF	1			
		Actual state of DO23:0=OFF	1			
		Actual state of DO24:0=OFF	1			
		Actual state of DO25:0=OFF	1			
		Actual state of DO26:0=OFF	1			

		Actual state of DO27:0=OFF	1		
		Actual state of DO28:0=OFF	1		
		Actual state of DO29:0=OFF	1		
		Actual state of DO30:0=OFF	1		
Actual state of all digital outputs Bit 0: =0:DO17 is OFF, =1:DO17 is ON Bit 1: =0:DO28 is OFF, =1:DO18 is ON ... Bit 12: =0:DO29 is OFF, =1:DO29 is ON Bit 13: =0:DO30 is OFF, =1:DO30 is ON					
Write on this register sets all digital outputs to a new state					
DIGITAL OUTPUTS:ENABLE OPEN WIRE DETECTION WHILE ON					
ENABLE OPEN WIRE DETECTION WHILE ON DO1-DO16	3x10006 4x10006 1:10005	????		0xFFFF	UINT16 R/W NO
		Actual setup of open wire detection while ON for DO1:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO2:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO3:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO4:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO5:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO6:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO7:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO8:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO9:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO10:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO11:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO12:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO13:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO14:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO15:0=DISABLED	1		

		Actual setup of open wire detection while ON for DO16:0=DISABLED	1		
Actual setup state for open wire detection while ON for digital output DOx Bit 0: =0:Open wire detection for DO1 is DISABLED, =1:Open wire detection for DO1 is ENABLED Bit 1: =0:Open wire detection for DO2 is DISABLED, =1:Open wire detection for DO2 is ENABLED ... Bit 14: =0:Open wire detection for DO15 is DISABLED, =1:Open wire detection for DO15 is ENABLED Bit 15: =0:Open wire detection for DO16 is DISABLED, =1:Open wire detection for DO16 is ENABLED					
Write on this register sets for all digital outputs a new setup state					
ENABLE OPEN WIRE DETECTION WHILE ON DO17-DO30	3x10007 4x10007 l:10006	????		0x3FFF	UINT16 R/W
		Actual setup of open wire detection while ON for DO17:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO18:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO19:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO20:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO21:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO22:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO23:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO24:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO25:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO26:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO27:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO28:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO29:0=DISABLED	1		
		Actual setup of open wire detection while ON for DO30:0=DISABLED	1		

Actual setup state for open wire detection while ON for digital output DOx
 Bit 0: =0:Open wire detection for DO17 is DISABLED, =1:Open wire detection for DO17 is ENABLED
 Bit 1: =0:Open wire detection for DO18 is DISABLED, =1:Open wire detection for DO18 is ENABLED
 ...
 Bit 12: =0:Open wire detection for DO29 is DISABLED, =1:Open wire detection for DO29 is ENABLED
 Bit 13: =0:Open wire detection for DO30 is DISABLED, =1:Open wire detection for DO30 is ENABLED

Write on this register sets for all digital outputs a new setup state

DIGITAL OUTPUTS:ENABLE OPEN WIRE DETECTION WHILE OFF

ENABLE OPEN WIRE DETECTION WHILE OFF DO1-DO16	3x10008 4x10008 1:10007	????		0xFFFF	UINT16 R/W	NO
		Actual setup of open wire detection while OFF for DO1:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO2:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO3:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO4:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO5:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO6:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO7:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO8:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO9:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO10:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO11:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO12:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO13:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO14:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO15:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO16:0=DISABLED	1			

Actual setup state for open wire detection while OFF for digital output DOx Bit 0: =0:Open wire detection for DO1 is DISABLED, =1:Open wire detection for DO1 is ENABLED Bit 1: =0:Open wire detection for DO2 is DISABLED, =1:Open wire detection for DO2 is ENABLED ... Bit 14: =0:Open wire detection for DO15 is DISABLED, =1:Open wire detection for DO15 is ENABLED Bit 15: =0:Open wire detection for DO16 is DISABLED, =1:Open wire detection for DO16 is ENABLED Write on this register sets for all digital outputs a new setup state						
ENABLE OPEN WIRE DETECTION WHILE OFF DO17-DO30	3x10009 4x10009 1:10008	????		0x3FFF	UINT16 R/W	NO
		Actual setup of open wire detection while OFF for DO17:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO18:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO19:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO20:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO21:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO22:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO23:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO24:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO25:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO26:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO27:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO28:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO29:0=DISABLED	1			
		Actual setup of open wire detection while OFF for DO30:0=DISABLED	1			
Actual setup state for open wire detection while OFF for digital output DOx Bit 0: =0:Open wire detection for DO17 is DISABLED, =1:Open wire detection for DO17 is ENABLED Bit 1: =0:Open wire detection for DO18 is DISABLED, =1:Open wire detection for DO18 is ENABLED ... Bit 12: =0:Open wire detection for DO29 is DISABLED, =1:Open wire detection for DO29 is ENABLED Bit 13: =0:Open wire detection for DO30 is DISABLED, =1:Open wire detection for DO30 is ENABLED Write on this register sets for all digital outputs a new setup state						
DIGITAL OUTPUTS:ENABLE SHORTCUT TO VDD DETECTION WHILE OFF						

ENABLE SHORTCUT TO VDD DETECTION WHILE OFF DO1-DO16	3x10010 4x10010 I:10009	????		0xFFFF	UINT16 R/W	NO
		Actual setup of shortcut detection to VDD while OFF for DO1:0=DISABLED	1			
		Actual setup of shortcut detection to VDD while OFF for DO2:0=DISABLED	1			
		Actual setup of shortcut detection to VDD while OFF for DO3:0=DISABLED	1			
		Actual setup of shortcut detection to VDD while OFF for DO4:0=DISABLED	1			
		Actual setup of shortcut detection to VDD while OFF for DO5:0=DISABLED	1			
		Actual setup of shortcut detection to VDD while OFF for DO6:0=DISABLED	1			
		Actual setup of shortcut detection to VDD while OFF for DO7:0=DISABLED	1			
		Actual setup of shortcut detection to VDD while OFF for DO8:0=DISABLED	1			
		Actual setup of shortcut detection to VDD while OFF for DO9:0=DISABLED	1			
		Actual setup of shortcut detection to VDD while OFF for DO10:0=DISABLED	1			
		Actual setup of shortcut detection to VDD while OFF for DO11:0=DISABLED	1			
		Actual setup of shortcut detection to VDD while OFF for DO12:0=DISABLED	1			
		Actual setup of shortcut detection to VDD while OFF for DO13:0=DISABLED	1			
		Actual setup of shortcut detection to VDD while OFF for DO14:0=DISABLED	1			
		Actual setup of shortcut detection to VDD while OFF for DO15:0=DISABLED	1			
		Actual setup of shortcut detection to VDD while OFF for DO16:0=DISABLED	1			
Actual setup state for shortcut to VDD detection while OFF for digital output DOx Bit 0: =0:Shortcut to VDD detection for DO1 is DISABLED, =1:Shortcut to VDD detection for DO1 is ENABLED Bit 1: =0:Shortcut to VDD detection for DO2 is DISABLED, =1:Shortcut to VDD detection for DO2 is ENABLED ... Bit 14: =0:Shortcut to VDD detection for DO15 is DISABLED, =1:Shortcut to VDD detection for DO15 is ENABLED Bit 15: =0:Shortcut to VDD detection for DO16 is DISABLED, =1:Shortcut to VDD detection for DO16 is ENABLED Write on this register sets for all digital outputs a new setup state						
ENABLE SHORTCUT TO VDD DETECTION WHILE OFF DO17-DO30	3x10011 4x10011 I:10010	????		0x3FFF	UINT16 R/W	NO

		Actual setup of shortcut detection to VDD while OFF for DO17:0=DISABLED	1		
		Actual setup of shortcut detection to VDD while OFF for DO18:0=DISABLED	1		
		Actual setup of shortcut detection to VDD while OFF for DO19:0=DISABLED	1		
		Actual setup of shortcut detection to VDD while OFF for DO20:0=DISABLED	1		
		Actual setup of shortcut detection to VDD while OFF for DO21:0=DISABLED	1		
		Actual setup of shortcut detection to VDD while OFF for DO22:0=DISABLED	1		
		Actual setup of shortcut detection to VDD while OFF for DO23:0=DISABLED	1		
		Actual setup of shortcut detection to VDD while OFF for DO24:0=DISABLED	1		
		Actual setup of shortcut detection to VDD while OFF for DO25:0=DISABLED	1		
		Actual setup of shortcut detection to VDD while OFF for DO26:0=DISABLED	1		
		Actual setup of shortcut detection to VDD while OFF for DO27:0=DISABLED	1		
		Actual setup of shortcut detection to VDD while OFF for DO28:0=DISABLED	1		
		Actual setup of shortcut detection to VDD while OFF for DO29:0=DISABLED	1		
		Actual setup of shortcut detection to VDD while OFF for DO30:0=DISABLED	1		
Actual setup state for shortcut to VDD detection while OFF for digital output DOx Bit 17: =0:Shortcut to VDD detection for DO17 is DISABLED, =1:Shortcut to VDD detection for DO17 is ENABLED Bit 18: =0:Shortcut to VDD detection for DO18 is DISABLED, =1:Shortcut to VDD detection for DO18 is ENABLED ... Bit 12: =0:Shortcut to VDD detection for DO29 is DISABLED, =1:Shortcut to VDD detection for DO29 is ENABLED Bit 13: =0:Shortcut to VDD detection for DO30 is DISABLED, =1:Shortcut to VDD detection for DO30 is ENABLED Write on this register sets for all digital outputs a new setup state					
DIGITAL OUTPUTS:OPEN WIRE WHILE ON DETECTION STATE					
OPEN WIRE DETECTION STATE WHILE ON DO1-DO16	3x10012 4x10012 1:10011	????		UINT16 R/O	
		Actual state of open wire detection while ON for DO1:0=OFF			
		Actual state of open wire detection while ON for DO2:0=OFF			
		Actual state of open wire detection while ON for DO3:0=OFF			

		Actual state of open wire detection while ON for DO4:0=OFF			
		Actual state of open wire detection while ON for DO5:0=OFF			
		Actual state of open wire detection while ON for DO6:0=OFF			
		Actual state of open wire detection while ON for DO7:0=OFF			
		Actual state of open wire detection while ON for DO8:0=OFF			
		Actual state of open wire detection while ON for DO9:0=OFF			
		Actual state of open wire detection while ON for DO10:0=OFF			
		Actual state of open wire detection while ON for DO11:0=OFF			
		Actual state of open wire detection while ON for DO12:0=OFF			
		Actual state of open wire detection while ON for DO13:0=OFF			
		Actual state of open wire detection while ON for DO14:0=OFF			
		Actual state of open wire detection while ON for DO15:0=OFF			
		Actual state of open wire detection while ON for DO16:0=OFF			

Actual diagnostic state for open wire detection while ON for digital output DOx

Bit 0: =0:Output DO1 is OK, =1:Fault-Open wire detected on DO1

Bit 1: =0:Output DO2 is OK, =1:Fault-Open wire detected on DO2

...

Bit 14: =0:Output DO15 is OK, =1:Fault-Open wire detected on DO15

Bit 15: =0:Output DO16 is OK, =1:Fault-Open wire detected on DO16

OPEN WIRE DETECTION STATE WHILE ON DO17-DO30	3x10013 4x10013 1:10012	????			UINT16 R/O
		Actual state of open wire detection while ON for DO17:0=OFF			
		Actual state of open wire detection while ON for DO18:0=OFF			
		Actual state of open wire detection while ON for DO19:0=OFF			
		Actual state of open wire detection while ON for DO20:0=OFF			
		Actual state of open wire detection while ON for DO21:0=OFF			

		Actual state of open wire detection while ON for DO22:0=OFF			
		Actual state of open wire detection while ON for DO23:0=OFF			
		Actual state of open wire detection while ON for DO24:0=OFF			
		Actual state of open wire detection while ON for DO25:0=OFF			
		Actual state of open wire detection while ON for DO26:0=OFF			
		Actual state of open wire detection while ON for DO27:0=OFF			
		Actual state of open wire detection while ON for DO28:0=OFF			
		Actual state of open wire detection while ON for DO29:0=OFF			
		Actual state of open wire detection while ON for DO30:0=OFF			

Actual diagnostic state for open wire detection while ON for digital output DOx

Bit 0: =0:Output DO17 is OK, =1:Fault-Open wire detected on DO17

Bit 1: =0:Output DO18 is OK, =1:Fault-Open wire detected on DO18

...

Bit 12: =0:Output DO29 is OK, =1:Fault-Open wire detected on DO29

Bit 13: =0:Output DO30 is OK, =1:Fault-Open wire detected on DO30

DIGITAL OUTPUTS:OPEN WIRE WHILE OFF DETECTION STATE

OPEN WIRE DETECTION STATE WHILE OFF DO1-DO16	3x10014 4x10014 1:10013	????			UINT16 R/O
		Actual state of open wire detection while OFF for DO1:0=OFF			
		Actual state of open wire detection while OFF for DO2:0=OFF			
		Actual state of open wire detection while OFF for DO3:0=OFF			
		Actual state of open wire detection while OFF for DO4:0=OFF			
		Actual state of open wire detection while OFF for DO5:0=OFF			
		Actual state of open wire detection while OFF for DO6:0=OFF			
		Actual state of open wire detection while OFF for DO7:0=OFF			
		Actual state of open wire detection while OFF for DO8:0=OFF			
		Actual state of open wire detection while OFF for DO9:0=OFF			

		Actual state of open wire detection while OFF for DO10:0=OFF			
		Actual state of open wire detection while OFF for DO11:0=OFF			
		Actual state of open wire detection while OFF for DO12:0=OFF			
		Actual state of open wire detection while OFF for DO13:0=OFF			
		Actual state of open wire detection while OFF for DO14:0=OFF			
		Actual state of open wire detection while OFF for DO15:0=OFF			
		Actual state of open wire detection while OFF for DO16:0=OFF			
Actual diagnostic state for open wire detection while OFF for digital output DOx Bit 0: =0:Output DO1 is OK, =1:Fault-Open wire detected on DO1 Bit 1: =0:Output DO2 is OK, =1:Fault-Open wire detected on DO2 ... Bit 14: =0:Output DO15 is OK, =1:Fault-Open wire detected on DO15 Bit 15: =0:Output DO16 is OK, =1:Fault-Open wire detected on DO16					
OPEN WIRE DETECTION STATE WHILE OFF DO17-DO30	3x10015 4x10015 l:10014	????		UINT16 R/O	
		Actual state of open wire detection while OFF for DO17:0=OFF			
		Actual state of open wire detection while OFF for DO18:0=OFF			
		Actual state of open wire detection while OFF for DO19:0=OFF			
		Actual state of open wire detection while OFF for DO20:0=OFF			
		Actual state of open wire detection while OFF for DO21:0=OFF			
		Actual state of open wire detection while OFF for DO22:0=OFF			
		Actual state of open wire detection while OFF for DO23:0=OFF			
		Actual state of open wire detection while OFF for DO24:0=OFF			
		Actual state of open wire detection while OFF for DO25:0=OFF			
		Actual state of open wire detection while OFF for DO26:0=OFF			
		Actual state of open wire detection while OFF for DO27:0=OFF			

		Actual state of open wire detection while OFF for DO28:0=OFF			
		Actual state of open wire detection while OFF for DO29:0=OFF			
		Actual state of open wire detection while OFF for DO30:0=OFF			
Actual diagnostic state for open wire detection while OFF for digital output DOx Bit 0: =0:Output DO17 is OK, =1:Fault-Open wire detected on DO17 Bit 1: =0:Output DO18 is OK, =1:Fault-Open wire detected on DO18 ... Bit 12: =0:Output DO29 is OK, =1:Fault-Open wire detected on DO29 Bit 13: =0:Output DO30 is OK, =1:Fault-Open wire detected on DO30					
DIGITAL OUTPUTS:SHORTCUT TO VDD WHILE OFF DETECTION STATE					
SHORTCUT TO VDD WHILE OFF DETECTION STATE DO1-DO16	3x10016 4x10016 1:10015	????		UINT16 R/O	
		Actual state of shortcut to VDD detection while OFF for DO1:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO2:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO3:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO4:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO5:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO6:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO7:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO8:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO9:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO10:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO11:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO12:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO13:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO14:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO15:0=OFF			

		Actual state of shortcut to VDD detection while OFF for DO16:0=OFF			
Actual diagnostic state for shortcut to VDD detection while OFF for digital output DOx Bit 0: =0:Output DO1 is OK, =1:Fault-shortcut detected on DO1 Bit 1: =0:Output DO2 is OK, =1:Fault-shortcut detected on DO2 ... Bit 14: =0:Output DO15 is OK, =1:Fault-shortcut detected on DO15 Bit 15: =0:Output DO16 is OK, =1:Fault-shortcut detected on DO16					
SHORTCUT TO VDD WHILE OFF DETECTION STATE DO17-DO30	3x10017 4x10017 1:10016	????			UINT16 R/O
		Actual state of shortcut to VDD detection while OFF for DO17:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO18:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO19:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO20:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO21:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO22:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO23:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO24:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO25:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO26:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO27:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO28:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO29:0=OFF			
		Actual state of shortcut to VDD detection while OFF for DO30:0=OFF			
Actual diagnostic state for shortcut to VDD detection while OFF for digital output DOx Bit 0: =0:Output DO17 is OK, =1:Fault-shortcut detected on DO17 Bit 1: =0:Output DO18 is OK, =1:Fault-shortcut detected on DO18 ... Bit 12: =0:Output DO29 is OK, =1:Fault-shortcut detected on DO29 Bit 13: =0:Output DO30 is OK, =1:Fault-shortcut detected on DO30					
DIGITAL OUTPUTS:THERMAL OVERLOAD DETECTION STATE					

THERMAL OVERLOAD DETECTION STATE DO1-DO16	3x10018 4x10018 I:10017	????			UINT16 R/O	
		Actual thermal overload detection state for DO1:0=OFF				
		Actual thermal overload detection state for DO2:0=OFF				
		Actual thermal overload detection state for DO3:0=OFF				
		Actual thermal overload detection state for DO4:0=OFF				
		Actual thermal overload detection state for DO5:0=OFF				
		Actual thermal overload detection state for DO6:0=OFF				
		Actual thermal overload detection state for DO7:0=OFF				
		Actual thermal overload detection state for DO8:0=OFF				
		Actual thermal overload detection state for DO9:0=OFF				
		Actual thermal overload detection state for DO10:0=OFF				
		Actual thermal overload detection state for DO11:0=OFF				
		Actual thermal overload detection state for DO12:0=OFF				
		Actual thermal overload detection state for DO13:0=OFF				
		Actual thermal overload detection state for DO14:0=OFF				
		Actual thermal overload detection state for DO15:0=OFF				
		Actual thermal overload detection state for DO16:0=OFF				
Actual thermal overload detection state for digital output DOx Bit 0: =0:Output DO1 is OK, =1:Fault-Thermal overload on DO1 Bit 1: =0:Output DO2 is OK, =1:Fault-Thermal overload on DO2 ... Bit 14: =0:Output DO15 is OK, =1:Fault-Thermal overload on DO15 Bit 15: =0:Output DO16 is OK, =1:Fault-Thermal overload on DO16						
THERMAL OVERLOAD DETECTION STATE DO17-DO30	3x10019 4x10019 I:10018	????			UINT16 R/O	
		Actual thermal overload detection state for DO17:0=OFF				

		Actual thermal overload detection state for DO18:0=OFF			
		Actual thermal overload detection state for DO19:0=OFF			
		Actual thermal overload detection state for DO20:0=OFF			
		Actual thermal overload detection state for DO21:0=OFF			
		Actual thermal overload detection state for DO22:0=OFF			
		Actual thermal overload detection state for DO23:0=OFF			
		Actual thermal overload detection state for DO24:0=OFF			
		Actual thermal overload detection state for DO25:0=OFF			
		Actual thermal overload detection state for DO26:0=OFF			
		Actual thermal overload detection state for DO27:0=OFF			
		Actual thermal overload detection state for DO28:0=OFF			
		Actual thermal overload detection state for DO29:0=OFF			
		Actual thermal overload detection state for DO30:0=OFF			

Actual thermal overload detection state for digital output DOx

Bit 0: =0:Output DO17 is OK, =1:Fault-Thermal overload on DO17

Bit 1: =0:Output DO18 is OK, =1:Fault-Thermal overload on DO18

...

Bit 12: =0:Output DO29 is OK, =1:Fault-Thermal overload on DO29

Bit 13: =0:Output DO30 is OK, =1:Fault-Thermal overload on DO30

DIGITAL OUTPUTS:CURRENT LIMIT DETECTION STATE

CURRENT LIMIT DETECTION STATE DO1-DO16	3x10020 4x10020 1:10019	????			UINT16 R/O	
		Actual current limit detection state for DO1:0=OFF				
		Actual current limit detection state for DO2:0=OFF				
		Actual current limit detection state for DO3:0=OFF				
		Actual current limit detection state for DO4:0=OFF				
		Actual current limit detection state for DO5:0=OFF				

		Actual current limit detection state for DO6:0=OFF			
		Actual current limit detection state for DO7:0=OFF			
		Actual current limit detection state for DO8:0=OFF			
		Actual current limit detection state for DO9:0=OFF			
		Actual current limit detection state for DO10:0=OFF			
		Actual current limit detection state for DO11:0=OFF			
		Actual current limit detection state for DO12:0=OFF			
		Actual current limit detection state for DO13:0=OFF			
		Actual current limit detection state for DO14:0=OFF			
		Actual current limit detection state for DO15:0=OFF			
		Actual current limit detection state for DO16:0=OFF			
Actual current limit detection state for digital output DOx Bit 0: =0:Output DO1 is OK, =1:Fault-Current limit on DO1 Bit 1: =0:Output DO2 is OK, =1:Fault-Current limit on DO2 ... Bit 14: =0:Output DO15 is OK, =1:Fault-Current limit on DO15 Bit 15: =0:Output DO16 is OK, =1:Fault-Current limit on DO16					
CURRENT LIMIT DETECTION STATE DO17-DO30	3x10021 4x10021 1:10020	????		UINT16 R/O	
		Actual current limit detection state for DO17:0=OFF			
		Actual current limit detection state for DO18:0=OFF			
		Actual current limit detection state for DO19:0=OFF			
		Actual current limit detection state for DO20:0=OFF			
		Actual current limit detection state for DO21:0=OFF			
		Actual current limit detection state for DO22:0=OFF			
		Actual current limit detection state for DO23:0=OFF			

		Actual current limit detection state for DO24:0=OFF			
		Actual current limit detection state for DO25:0=OFF			
		Actual current limit detection state for DO26:0=OFF			
		Actual current limit detection state for DO27:0=OFF			
		Actual current limit detection state for DO28:0=OFF			
		Actual current limit detection state for DO29:0=OFF			
		Actual current limit detection state for DO30:0=OFF			
Actual current limit detection state for digital output DOx Bit 0: =0:Output DO17 is OK, =1:Fault-Current limit on DO17 Bit 1: =0:Output DO18 is OK, =1:Fault-Current limit on DO18 ... Bit 12: =0:Output DO29 is OK, =1:Fault-Current limit on DO29 Bit 13: =0:Output DO30 is OK, =1:Fault-Current limit on DO30					
DIGITAL OUTPUTS: GLOBAL ERRORS					
CHIP #1:DO1-DO8					
CHIP #2:DO9-DO15					
GLOBAL ERRORS FOR CHIP #1+#2	3x10022 4x10022 1:10021	????		UINT16 R/O	
		BIT 0:CHIP#1:Internal under voltage detected:0=OK			
		BIT 1:CHIP#1:VA under voltage detected (<2.3V):0=OK			
		BIT 2:CHIP#1:VDD not good detected (<17V):0=OK			
		BIT 3:CHIP#1:VDD warning detected (<12V):0=OK			
		BIT 4:CHIP#1:VDD under voltage detected (<8V):0=OK			
		BIT 5:CHIP#1:Thermal shutdown:0=OK			
		BIT 6:CHIP#1:Synchronisation error detected:0=OK			
		BIT 7:CHIP#1:Watchdog error detected:0=OK			
		BIT 8:CHIP#2:Internal under voltage detected:0=OK			
		BIT 9:CHIP#2:VA under voltage detected (<2.3V):0=OK			
		BIT 10:CHIP#2:VDD not good detected (<17V):0=OK			
		BIT 11:CHIP#2:VDD warning detected (<12V):0=OK			
		BIT 12:CHIP#2:VDD under voltage detected (<8V):0=OK			
		BIT 13:CHIP#2:Thermal shutdown:0=OK			
		BIT 14:CHIP#2:Synchronisation error detected:0=OK			
		BIT 15:CHIP#2:Watchdog error detected:0=OK			
The global error state for the output group. Each bit stands for a different error =0:No fault, =1:Fault					
CHIP #3:DO16-DO23					
CHIP #4:DO24-DO30					

GLOBAL ERRORS FOR CHIP #3+#4	3x10023 4x10023 I:10022	????			UINT16 R/O	
		BIT 0:CHIP#3:Internal under voltage detected:0=OK				
		BIT 1:CHIP#3:VA under voltage detected (<2.3V):0=OK				
		BIT 2:CHIP#3:VDD not good detected (<17V):0=OK				
		BIT 3:CHIP#3:VDD warning detected (<12V):0=OK				
		BIT 4:CHIP#3:VDD under voltage detected (<8V):0=OK				
		BIT 5:CHIP#3:Thermal shutdown:0=OK				
		BIT 6:CHIP#3:Synchronisation error detected:0=OK				
		BIT 7:CHIP#3:Watchdog error detected:0=OK				
		BIT 8:CHIP#4:Internal under voltage detected:0=OK				
		BIT 9:CHIP#4:VA under voltage detected (<2.3V):0=OK				
		BIT 10:CHIP#4:VDD not good detected (<17V):0=OK				
		BIT 11:CHIP#4:VDD warning detected (<12V):0=OK				
		BIT 12:CHIP#4:VDD under voltage detected (<8V):0=OK				
		BIT 13:CHIP#4:Thermal shutdown:0=OK				
		BIT 14:CHIP#4:Synchronisation error detected:0=OK				
		BIT 15:CHIP#4:Watchdog error detected:0=OK				

The global error state for the output group. Each bit stands for a different error
=0:No fault, =1:Fault

DIGITAL OUTPUTS: INTERRUPT STATUS**CHIP #1:DO1-DO8****CHIP #2:DO9-DO15**

INTERRUPT STATUS FOR CHIP#1+#2	3x10024 4x10024 I:10023	????			UINT16 R/O	
		BIT 0:CHIP#1:Overload detected:0=OK				
		BIT 1:CHIP#1:Current limit detected:0=OK				
		BIT 2:CHIP#1:Open wire while OFF detected:0=OK				
		BIT 3:CHIP#1:Open wire while ON detected:0=OK				
		BIT 4:CHIP#1:Shortcut to VDD detected:0=OK				
		BIT 5:CHIP#1:Thermal shutdown:0=OK				
		BIT 6:CHIP#1:Supply error detected:0=OK				
		BIT 7:CHIP#1:Communication error detected:0=OK				
		BIT 8:CHIP#2:Overload detected:0=OK				
		BIT 9:CHIP#2:Current limit detected:0=OK				
		BIT 10:CHIP#2:Open wire while OFF detected:0=OK				
		BIT 11:CHIP#2:Open wire while ON detected:0=OK				
		BIT 12:CHIP#2:Shortcut to VDD detected:0=OK				
		BIT 13:CHIP#2:Thermal shutdown:0=OK				
		BIT 14:CHIP#2:Supply error detected:0=OK				
		BIT 15:CHIP#2:Communication error detected:0=OK				

The interrupt state for the output group. Each bit stands for a different error
=0:No fault, =1:Fault

CHIP #3:DO16-DO23

CHIP #4:DO24-DO30						
INTERRUPT STATUS FOR CHIP#3+#4	3x10025 4x10025 I:10024	????			UINT16 R/O	
		BIT 0:CHIP#3:Overload detected:0=OK				
		BIT 1:CHIP#3:Current limit detected:0=OK				
		BIT 2:CHIP#3:Open wire while OFF detected:0=OK				
		BIT 3:CHIP#3:Open wire while ON detected:0=OK				
		BIT 4:CHIP#3:Shortcut to VDD detected:0=OK				
		BIT 5:CHIP#3:Thermal shutdown:0=OK				
		BIT 6:CHIP#3:Supply error detected:0=OK				
		BIT 7:CHIP#3:Communication error detected:0=OK				
		BIT 8:CHIP#4:Overload detected:0=OK				
		BIT 9:CHIP#4:Current limit detected:0=OK				
		BIT 10:CHIP#4:Open wire while OFF detected:0=OK				
		BIT 11:CHIP#4:Open wire while ON detected:0=OK				
		BIT 12:CHIP#4:Shortcut to VDD detected:0=OK				
		BIT 13:CHIP#4:Thermal shutdown:0=OK				
		BIT 14:CHIP#4:Supply error detected:0=OK				
		BIT 15:CHIP#4:Communication error detected:0=OK				
The interrupt state for the output group. Each bit stands for a different error =0:No fault, =1:Fault						
SPI COMMUNICATION DIGITAL OUTPUTS						
CHIP #1:DO1-DO8						
CHIP #2:DO9-DO15						
CHIP #3:DO16-DO23						
CHIP #4:DO24-DO30						
SPI COMMUNICATION DIGITAL OUTPUTS	3x10026 4x10026 I:10025	????			UINT16 R/O	
		Actual SPI communcation state of CHIP#1:0=OK				
		Actual SPI communcation state of CHIP#2:0=OK				
		Actual SPI communcation state of CHIP#3:0=OK				
		Actual SPI communcation state of CHIP#4:0=OK				
The current monitoring state of the SPI communication for the digital output group =0:No fault, =1:Fault						
Current SPI communication state of all digital output groups Bit x: =0:CHIP x has no fault, =1:CHIP x SPI Fault						
DIGITAL OUTPUTS: NUMBER OF CHIPSET						
NUMBER OF DIGITAL OUTPUT CHIPS	3x10099 4x10099 I:10098	????			UINT16 R/O	
		Actual number of installed DO CHIPS:0				
The actual number of used output chips						
DIGITAL OUTPUTS: CHIPSET TYPE						

DIGITAL OUTPUTS CHIPSET TYPE	3x10100 4x10100 I:10099	????			UINT16 R/O	
		Actual chipset for DOs:0=NCV7608				
The current chipset for the digital outputs: =0: NCV7608 =1: MAX14915						
STATUS OF DIGITAL OUTPUTS						
REAL STATUS OF ALL DOS DO1-DO16	3x10501 4x10501 I:10500	????			UINT16 R/O	
		Real state of DO1:0=OFF				
		Real state of DO2:0=OFF				
		Real state of DO3:0=OFF				
		Real state of DO4:0=OFF				
		Real state of DO5:0=OFF				
		Real state of DO6:0=OFF				
		Real state of DO7:0=OFF				
		Real state of DO8:0=OFF				
		Real state of DO9:0=OFF				
		Real state of DO10:0=OFF				
		Real state of DO11:0=OFF				
		Real state of DO12:0=OFF				
		Real state of DO13:0=OFF				
		Real state of DO14:0=OFF				
		Real state of DO15:0=OFF				
		Real state of DO16:0=OFF				
Actual state of all digital outputs in the DO chips Bit 0: =0:DO1 is OFF, =1:DO1 is ON Bit 1: =0:DO2 is OFF, =1:DO2 is ON ... Bit 14: =0:DO15 is OFF, =1:DO15 is ON Bit 15: =0:DO16 is OFF, =1:DO16 is ON						
Write on this register sets all digital outputs to a new state						
REAL STATUS OF ALL DOS DO17-DO30	3x10502 4x10502 I:10501	????			UINT16 R/O	
		Real state of DO17:0=OFF				
		Real state of DO18:0=OFF				
		Real state of DO19:0=OFF				
		Real state of DO20:0=OFF				
		Real state of DO21:0=OFF				
		Real state of DO22:0=OFF				
		Real state of DO23:0=OFF				
		Real state of DO24:0=OFF				
		Real state of DO25:0=OFF				

		Real state of DO26:0=OFF			
		Real state of DO27:0=OFF			
		Real state of DO28:0=OFF			
		Real state of DO29:0=OFF			
		Real state of DO30:0=OFF			
Actual state of all digital outputs in the DO chips Bit 0: =0:DO17 is OFF, =1:DO17 is ON Bit 1: =0:DO28 is OFF, =1:DO18 is ON ... Bit 12: =0:DO29 is OFF, =1:DO29 is ON Bit 13: =0:DO30 is OFF, =1:DO30 is ON					
Write on this register sets all digital outputs to a new state					
STATUS REAL DIGITAL INPUTS					
DI1	3x15001 4x15001 I:15000	????		UINT16 R/O	
		Actual state of DI1:0=OFF			
Current state of the digital input DIx with the internal software filter to suppress glitches or spike on thie line =0:DI is OFF, =1:DI is ON					
DI2	3x15002 4x15002 I:15001	????		UINT16 R/O	
		Actual state of DI2:0=OFF			
DI3	3x15003 4x15003 I:15002	????		UINT16 R/O	
		Actual state of DI3:0=OFF			
DI4	3x15004 4x15004 I:15003	????		UINT16 R/O	
		Actual state of DI4:0=OFF			
DI5	3x15005 4x15005 I:15004	????		UINT16 R/O	
		Actual state of DI5:0=OFF			
DI6	3x15006 4x15006 I:15005	????		UINT16 R/O	
		Actual state of DI6:0=OFF			
DI7	3x15007 4x15007 I:15006	????		UINT16 R/O	
		Actual state of DI7:0=OFF			
DI8	3x15008 4x15008 I:15007	????		UINT16 R/O	

		Actual state of DI8:0=OFF				
DI9	3x15009 4x15009 I:15008	????			UINT16 R/O	
		Actual state of DI9:0=OFF				
DI10	3x15010 4x15010 I:15009	????			UINT16 R/O	
		Actual state of DI10:0=OFF				
DI11	3x15011 4x15011 I:15010	????			UINT16 R/O	
		Actual state of DI11:0=OFF				
DI12	3x15012 4x15012 I:15011	????			UINT16 R/O	
		Actual state of DI12:0=OFF				
DI13	3x15013 4x15013 I:15012	????			UINT16 R/O	
		Actual state of DI13:0=OFF				
DI14	3x15014 4x15014 I:15013	????			UINT16 R/O	
		Actual state of DI14:0=OFF				
DI15	3x15015 4x15015 I:15014	????			UINT16 R/O	
		Actual state of DI15:0=OFF				
DI16	3x15016 4x15016 I:15015	????			UINT16 R/O	
		Actual state of DI16:0=OFF				
DI17	3x15017 4x15017 I:15016	????			UINT16 R/O	
		Actual state of DI17:0=OFF				
DI18	3x15018 4x15018 I:15017	????			UINT16 R/O	
		Actual state of DI18:0=OFF				
DI19	3x15019 4x15019 I:15018	????			UINT16 R/O	
		Actual state of DI19:0=OFF				

DI20	3x15020 4x15020 I:15019	????			UINT16 R/O	
		Actual state of DI20:0=OFF				
DI21	3x15021 4x15021 I:15020	????			UINT16 R/O	
		Actual state of DI21:0=OFF				
DI22	3x15022 4x15022 I:15021	????			UINT16 R/O	
		Actual state of DI22:0=OFF				
D23	3x15023 4x15023 I:15022	????			UINT16 R/O	
		Actual state of D23:0=OFF				
DI24	3x15024 4x15024 I:15023	????			UINT16 R/O	
		Actual state of DI24:0=OFF				
DI25	3x15025 4x15025 I:15024	????			UINT16 R/O	
		Actual state of DI25:0=OFF				
DI26	3x15026 4x15026 I:15025	????			UINT16 R/O	
		Actual state of DI26:0=OFF				
DI27	3x15027 4x15027 I:15026	????			UINT16 R/O	
		Actual state of DI27:0=OFF				
DI28	3x15028 4x15028 I:15027	????			UINT16 R/O	
		Actual state of DI28:0=OFF				
DI29	3x15029 4x15029 I:15028	????			UINT16 R/O	
		Actual state of DI29:0=OFF				
DI30	3x15030 4x15030 I:15029	????			UINT16 R/O	
		Actual state of DI30:0=OFF				

DI31	3x15031 4x15031 I:15030	????			UINT16 R/O	
		Actual state of DI31:0=OFF				
DI32	3x15032 4x15032 I:15031	????			UINT16 R/O	
		Actual state of DI32:0=OFF				
STATUS DIGITAL INPUTS						
UNFILTERED DI1	3x15033 4x15033 I:15032	????			UINT16 R/O	
		Actual state of UNFILTERED DI1:0=OFF				
Current state of the real digital input DIx without the internal software filter to suppress glitches or spike on this line =0:DI is OFF, =1:DI is ON						
UNFILTERED DI2	3x15034 4x15034 I:15033	????			UINT16 R/O	
		Actual state of UNFILTERED DI2:0=OFF				
UNFILTERED DI3	3x15035 4x15035 I:15034	????			UINT16 R/O	
		Actual state of UNFILTERED DI3:0=OFF				
UNFILTERED DI4	3x15036 4x15036 I:15035	????			UINT16 R/O	
		Actual state of UNFILTERED DI4:0=OFF				
UNFILTERED DI5	3x15037 4x15037 I:15036	????			UINT16 R/O	
		Actual state of UNFILTERED DI5:0=OFF				
UNFILTERED DI6	3x15038 4x15038 I:15037	????			UINT16 R/O	
		Actual state of UNFILTERED DI6:0=OFF				
UNFILTERED DI7	3x15039 4x15039 I:15038	????			UINT16 R/O	
		Actual state of UNFILTERED DI7:0=OFF				
UNFILTERED DI8	3x15040 4x15040 I:15039	????			UINT16 R/O	
		Actual state of UNFILTERED DI8:0=OFF				
UNFILTERED DI9	3x15041 4x15041 I:15040	????			UINT16 R/O	

		Actual state of UNFILTERED DI9:0=OFF				
UNFILTERED DI10	3x15042 4x15042 I:15041	????			UINT16 R/O	
		Actual state of UNFILTERED DI10:0=OFF				
UNFILTERED DI11	3x15043 4x15043 I:15042	????			UINT16 R/O	
		Actual state of UNFILTERED DI11:0=OFF				
UNFILTERED DI12	3x15044 4x15044 I:15043	????			UINT16 R/O	
		Actual state of UNFILTERED DI12:0=OFF				
UNFILTERED DI13	3x15045 4x15045 I:15044	????			UINT16 R/O	
		Actual state of UNFILTERED DI13:0=OFF				
UNFILTERED DI14	3x15046 4x15046 I:15045	????			UINT16 R/O	
		Actual state of UNFILTERED DI14:0=OFF				
UNFILTERED DI15	3x15047 4x15047 I:15046	????			UINT16 R/O	
		Actual state of UNFILTERED DI15:0=OFF				
UNFILTERED DI16	3x15048 4x15048 I:15047	????			UINT16 R/O	
		Actual state of UNFILTERED DI16:0=OFF				
UNFILTERED DI17	3x15049 4x15049 I:15048	????			UINT16 R/O	
		Actual state of UNFILTERED DI17:0=OFF				
UNFILTERED DI18	3x15050 4x15050 I:15049	????			UINT16 R/O	
		Actual state of UNFILTERED DI18:0=OFF				
UNFILTERED DI19	3x15051 4x15051 I:15050	????			UINT16 R/O	
		Actual state of UNFILTERED DI19:0=OFF				
UNFILTERED DI20	3x15052 4x15052 I:15051	????			UINT16 R/O	
		Actual state of UNFILTERED DI20:0=OFF				

UNFILTERED DI21	3x15053 4x15053 I:15052	????			UINT16 R/O	
		Actual state of UNFILTERED DI21:0=OFF				
UNFILTERED DI22	3x15054 4x15054 I:15053	????			UINT16 R/O	
		Actual state of UNFILTERED DI22:0=OFF				
UNFILTERED DI23	3x15055 4x15055 I:15054	????			UINT16 R/O	
		Actual state of UNFILTERED DI23:0=OFF				
UNFILTERED DI24	3x15056 4x15056 I:15055	????			UINT16 R/O	
		Actual state of UNFILTERED DI24:0=OFF				
UNFILTERED DI25	3x15057 4x15057 I:15056	????			UINT16 R/O	
		Actual state of UNFILTERED DI25:0=OFF				
UNFILTERED DI26	3x15058 4x15058 I:15057	????			UINT16 R/O	
		Actual state of UNFILTERED DI26:0=OFF				
UNFILTERED DI27	3x15059 4x15059 I:15058	????			UINT16 R/O	
		Actual state of UNFILTERED DI27:0=OFF				
UNFILTERED DI28	3x15060 4x15060 I:15059	????			UINT16 R/O	
		Actual state of UNFILTERED DI28:0=OFF				
UNFILTERED DI29	3x15061 4x15061 I:15060	????			UINT16 R/O	
		Actual state of UNFILTERED DI29:0=OFF				
UNFILTERED DI30	3x15062 4x15062 I:15061	????			UINT16 R/O	
		Actual state of UNFILTERED DI30:0=OFF				
UNFILTERED DI31	3x15063 4x15063 I:15062	????			UINT16 R/O	
		Actual state of UNFILTERED DI31:0=OFF				

UNFILTERED DI32	3x15064 4x15064 I:15063	????			UINT16 R/O		
		Actual state of UNFILTERED DI32:0=OFF					
STATUS DIGITAL OUTPUTS							
DO1	3x16001 4x16001 I:16000	????		1	UINT16 R/W	NO	
		Actual state of DO1:0=OFF		ENTER NEW STATE (0 or 1)			
Current state of the digital output DOx =0:DO is OFF, =1:DO is ON							
Writing on this register changes the state of the digital output							
DO2	3x16002 4x16002 I:16001	????		0	UINT16 R/W	NO	
		Actual state of DO2:0=OFF		ENTER NEW STATE (0 or 1)			
DO3	3x16003 4x16003 I:16002	????		0	UINT16 R/W	NO	
		Actual state of DO3:0=OFF		ENTER NEW STATE (0 or 1)			
DO4	3x16004 4x16004 I:16003	????		0	UINT16 R/W	NO	
		Actual state of DO4:0=OFF		ENTER NEW STATE (0 or 1)			
DO5	3x16005 4x16005 I:16004	????		0	UINT16 R/W	NO	
		Actual state of DO5:0=OFF		ENTER NEW STATE (0 or 1)			
DO6	3x16006 4x16006 I:16005	????		0	UINT16 R/W	NO	
		Actual state of DO6:0=OFF		ENTER NEW STATE (0 or 1)			
DO7	3x16007 4x16007 I:16006	????		0	UINT16 R/W	NO	
		Actual state of DO7:0=OFF		ENTER NEW STATE (0 or 1)			
DO8	3x16008 4x16008 I:16007	????		0	UINT16 R/W	NO	
		Actual state of DO8:0=OFF		ENTER NEW STATE (0 or 1)			
DO9	3x16009 4x16009 I:16008	????		0	UINT16 R/W	NO	
		Actual state of DO9:0=OFF		ENTER NEW STATE (0 or 1)			

DO10	3x16010 4x16010 I:16009	????		0	UINT16 R/W	NO
		Actual state of DO10:0=OFF		ENTER NEW STATE (0 or 1)		
DO11	3x16011 4x16011 I:16010	????		0	UINT16 R/W	NO
		Actual state of DO11:0=OFF		ENTER NEW STATE (0 or 1)		
DO12	3x16012 4x16012 I:16011	????		0	UINT16 R/W	NO
		Actual state of DO12:0=OFF		ENTER NEW STATE (0 or 1)		
DO13	3x16013 4x16013 I:16012	????		0	UINT16 R/W	NO
		Actual state of DO13:0=OFF		ENTER NEW STATE (0 or 1)		
DO14	3x16014 4x16014 I:16013	????		0	UINT16 R/W	NO
		Actual state of DO14:0=OFF		ENTER NEW STATE (0 or 1)		
DO15	3x16015 4x16015 I:16014	????		0	UINT16 R/W	NO
		Actual state of DO15:0=OFF		ENTER NEW STATE (0 or 1)		
DO16	3x16016 4x16016 I:16015	????		0	UINT16 R/W	NO
		Actual state of DO16:0=OFF		ENTER NEW STATE (0 or 1)		
DO17	3x16017 4x16017 I:16016	????		0	UINT16 R/W	NO
		Actual state of DO17:0=OFF		ENTER NEW STATE (0 or 1)		
DO18	3x16018 4x16018 I:16017	????		0	UINT16 R/W	NO
		Actual state of DO18:0=OFF		ENTER NEW STATE (0 or 1)		
DO19	3x16019 4x16019 I:16018	????		0	UINT16 R/W	NO
		Actual state of DO19:0=OFF		ENTER NEW STATE (0 or 1)		
DO20	3x16020 4x16020 I:16019	????		0	UINT16 R/W	NO
		Actual state of DO20:0=OFF		ENTER NEW STATE (0 or 1)		

DO21	3x16021 4x16021 I:16020	????		0	UINT16 R/W	NO
		Actual state of DO21:0=OFF		ENTER NEW STATE (0 or 1)		
DO22	3x16022 4x16022 I:16021	????		0	UINT16 R/W	NO
		Actual state of DO22:0=OFF		ENTER NEW STATE (0 or 1)		
DO23	3x16023 4x16023 I:16022	????		0	UINT16 R/W	NO
		Actual state of DO23:0=OFF		ENTER NEW STATE (0 or 1)		
DO24	3x16024 4x16024 I:16023	????		0	UINT16 R/W	NO
		Actual state of DO24:0=OFF		ENTER NEW STATE (0 or 1)		
DO25	3x16025 4x16025 I:16024	????		0	UINT16 R/W	NO
		Actual state of DO25:0=OFF		ENTER NEW STATE (0 or 1)		
DO26	3x16026 4x16026 I:16025	????		0	UINT16 R/W	NO
		Actual state of DO26:0=OFF		ENTER NEW STATE (0 or 1)		
DO27	3x16027 4x16027 I:16026	????		0	UINT16 R/W	NO
		Actual state of DO27:0=OFF		ENTER NEW STATE (0 or 1)		
DO28	3x16028 4x16028 I:16027	????		0	UINT16 R/W	NO
		Actual state of DO28:0=OFF		ENTER NEW STATE (0 or 1)		
DO29	3x16029 4x16029 I:16028	????		0	UINT16 R/W	NO
		Actual state of DO29:0=OFF		ENTER NEW STATE (0 or 1)		
DO30	3x16030 4x16030 I:16029	????		0	UINT16 R/W	NO
		Actual state of DO30:0=OFF		ENTER NEW STATE (0 or 1)		

Register NAME Command NAME	MODBUS Register ASCII Command	Register VALUE ASCII Command	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
PULSE TIME FOR DIGITAL OUTPUTS						
PULSE TIME DO1	3x20001 4x20001 I:20000	0,0x0000 B:00 00	200	20,0	UINT16 R/W	YES
Generate a pulse on digital output x in 100ms units (0,1 to 6553,5 Seconds selectable) If you write onto this register, the digital output will be switched on for the desired time in 100ms units.						
PULSE TIME DO2	3x20002 4x20002 I:20001	0,0x0000 B:00 00	300	30,0	UINT16 R/W	NO
PULSE TIME DO3	3x20003 4x20003 I:20002	0,0x0000 B:00 00	400	40,0	UINT16 R/W	NO
PULSE TIME DO4	3x20004 4x20004 I:20003	0,0x0000 B:00 00	500	50,0	UINT16 R/W	NO
PULSE TIME DO5	3x20005 4x20005 I:20004	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO6	3x20006 4x20006 I:20005	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO7	3x20007 4x20007 I:20006	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO8	3x20008 4x20008 I:20007	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO9	3x20009 4x20009 I:20008	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO10	3x20010 4x20010 I:20009	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO11	3x20011 4x20011 I:20010	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO12	3x20012 4x20012 I:20011	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO

PULSE TIME DO13	3x20013 4x20013 I:20012	0,0x0000 B:00 00	400	40,0	UINT16 R/W	NO
PULSE TIME DO14	3x20014 4x20014 I:20013	0,0x0000 B:00 00	500	50,0	UINT16 R/W	NO
PULSE TIME DO15	3x20015 4x20015 I:20014	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO16	3x20016 4x20016 I:20015	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO17	3x20017 4x20017 I:20016	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO18	3x20018 4x20018 I:20017	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO19	3x20019 4x20019 I:20018	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO20	3x20020 4x20020 I:20019	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO21	3x20021 4x20021 I:20020	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO22	3x20022 4x20022 I:20021	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO23	3x20023 4x20023 I:20022	0,0x0000 B:00 00	400	40,0	UINT16 R/W	NO
PULSE TIME DO24	3x20024 4x20024 I:20023	0,0x0000 B:00 00	500	50,0	UINT16 R/W	NO
PULSE TIME DO25	3x20025 4x20025 I:20024	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO26	3x20026 4x20026 I:20025	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO27	3x20027 4x20027 I:20026	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO

PULSE TIME DO28	3x20028 4x20028 I:20027	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO29	3x20029 4x20029 I:20028	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE TIME DO30	3x20030 4x20030 I:20029	0,0x0000 B:00 00	20	2,0	UINT16 R/W	NO
PULSE STATUS FOR DIGITAL OUTPUTS						
PULSE TIMER DO1	3x21001 4x21001 I:21000	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
Remaining time of the pulse on digital output x in Milliseconds.						
PULSE TIMER DO2	3x21003 4x21003 I:21002	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO3	3x21005 4x21005 I:21004	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO4	3x21007 4x21007 I:21006	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO5	3x21009 4x21009 I:21008	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO6	3x21011 4x21011 I:21010	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO7	3x21013 4x21013 I:21012	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO8	3x21015 4x21015 I:21014	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				

PULSE TIMER DO9	3x21017 4x21017 I:21016	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO10	3x21019 4x21019 I:21018	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO11	3x21021 4x21021 I:21020	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO12	3x21023 4x21023 I:21022	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO13	3x21025 4x21025 I:21024	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO14	3x21027 4x21027 I:21026	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO15	3x21029 4x21029 I:21028	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO16	3x21031 4x21031 I:21030	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO17	3x21033 4x21033 I:21032	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO18	3x21035 4x21035 I:21034	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO19	3x21037 4x21037 I:21036	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				

PULSE TIMER DO20	3x21039 4x21039 I:21038	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO21	3x21041 4x21041 I:21040	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO22	3x21043 4x21043 I:21042	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO23	3x21045 4x21045 I:21044	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO24	3x21047 4x21047 I:21046	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO25	3x21049 4x21049 I:21048	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO26	3x21051 4x21051 I:21050	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO27	3x21053 4x21053 I:21052	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO28	3x21055 4x21055 I:21054	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO29	3x21057 4x21057 I:21056	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				
PULSE TIMER DO30	3x21059 4x21059 I:21058	0,0x00000000 B:00 00 00 00			UINT32 R/O	
		0,0 seconds				

PULSE STATUS FOR DIGITAL OUTPUTS

PULSE TIMER DO1	3x21061 4x21061 I:21060	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
Remaining time of the pulse on digital output x in Milliseconds.						
PULSE TIMER DO2	3x21063 4x21063 I:21062	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO3	3x21065 4x21065 I:21064	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO4	3x21067 4x21067 I:21066	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO5	3x21069 4x21069 I:21068	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO6	3x21071 4x21071 I:21070	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO7	3x21073 4x21073 I:21072	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO8	3x21075 4x21075 I:21074	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO9	3x21077 4x21077 I:21076	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO10	3x21079 4x21079 I:21078	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				

PULSE TIMER DO11	3x21081 4x21081 I:21080	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO12	3x21083 4x21083 I:21082	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO13	3x21085 4x21085 I:21084	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO14	3x21087 4x21087 I:21086	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO15	3x21089 4x21089 I:21088	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO16	3x21091 4x21091 I:21090	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO17	3x21093 4x21093 I:21092	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO18	3x21095 4x21095 I:21094	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO19	3x21097 4x21097 I:21096	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO20	3x21099 4x21099 I:21098	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO21	3x21101 4x21101 I:21100	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				

PULSE TIMER DO22	3x21103 4x21103 I:21102	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO23	3x21105 4x21105 I:21104	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO24	3x21107 4x21107 I:21106	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO25	3x21109 4x21109 I:21108	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO26	3x21111 4x21111 I:21110	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO27	3x21113 4x21113 I:21112	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO28	3x21115 4x21115 I:21114	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO29	3x21117 4x21117 I:21116	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				
PULSE TIMER DO30	3x21119 4x21119 I:21118	0,0x00000000 B:00 00 00 00			UINT32R R/O	
		0,0 seconds				

Register NAME Command NAME	MODBUS Register ASCII Command	Register VALUE ASCII Command	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
DIGITAL INPUTS						
STATUS DI1 A	3x05001 4x05001 I:5000	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
Status for the digital input Dlx Bit 0-4: Lower 5 bits of CHANGE COUNTER Bit 5-9: Lower 5 bits of RISING EDGE COUNTER Bit 10-14: Lower 5 bits of FALLING EDGE COUNTER Bit 15: Current Status of Dlx =0: Dlx si OFF, =1: Dlx is ON						
STATUS DI1 B	3x05002 4x05002 I:5001	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
Status for the digital input Dlx Bit 0-4: Lower 5 bits of SHORT KEYPRESS EVENTS Bit 5-9: Lower 5 bits of LONG KEYPRESS START EVENTS Bit 10-14: Lower 5 bits of LONG KEYPRESS END EVENTS Bit 15: Current Status of Dlx =0: Dlx si OFF, =1: Dlx is ON						
STATUS DI2 A	3x05003 4x05003 I:5002	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI2 B	3x05004 4x05004 I:5003	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI3 A	3x05005 4x05005 I:5004	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI3 B	3x05006 4x05006 I:5005	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI4 A	3x05007 4x05007 I:5006	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				

STATUS DI4 B	3x05008 4x05008 I:5007	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI5 A	3x05009 4x05009 I:5008	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI5 B	3x05010 4x05010 I:5009	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI6 A	3x05011 4x05011 I:5010	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI6 B	3x05012 4x05012 I:5011	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI7 A	3x05013 4x05013 I:5012	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI7 B	3x05014 4x05014 I:5013	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI8 A	3x05015 4x05015 I:5014	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI8 B	3x05016 4x05016 I:5015	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI9 A	3x05017 4x05017 I:5016	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI9 B	3x05018 4x05018 I:5017	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				

STATUS DI10 A	3x05019 4x05019 I:5018	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI10 B	3x05020 4x05020 I:5019	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI11 A	3x05021 4x05021 I:5020	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI11 B	3x05022 4x05022 I:5021	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI12 A	3x05023 4x05023 I:5022	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI12 B	3x05024 4x05024 I:5023	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI13 A	3x05025 4x05025 I:5024	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI13 B	3x05026 4x05026 I:5025	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI14 A	3x05027 4x05027 I:5026	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI14 B	3x05028 4x05028 I:5027	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI15 A	3x05029 4x05029 I:5028	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				

STATUS DI15 B	3x05030 4x05030 I:5029	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI16 A	3x05031 4x05031 I:5030	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI16 B	3x05032 4x05032 I:5031	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI17 A	3x05033 4x05033 I:5032	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI17 B	3x05034 4x05034 I:5033	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI18 A	3x05035 4x05035 I:5034	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI18 B	3x05036 4x05036 I:5035	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI19 A	3x05037 4x05037 I:5036	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI19 B	3x05038 4x05038 I:5037	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI20 A	3x05039 4x05039 I:5038	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI20 B	3x05040 4x05040 I:5039	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				

STATUS DI21 A	3x05041 4x05041 I:5040	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI21 B	3x05042 4x05042 I:5041	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI22 A	3x05043 4x05043 I:5042	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI22 B	3x05044 4x05044 I:5043	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI23 A	3x05045 4x05045 I:5044	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI23 B	3x05046 4x05046 I:5045	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI24 A	3x05047 4x05047 I:5046	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI24 B	3x05048 4x05048 I:5047	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI25 A	3x05049 4x05049 I:5048	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI25 B	3x05050 4x05050 I:5049	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI26 A	3x05051 4x05051 I:5050	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				

STATUS DI26 B	3x05052 4x05052 I:5051	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI27 A	3x05053 4x05053 I:5052	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI27 B	3x05054 4x05054 I:5053	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI28 A	3x05055 4x05055 I:5054	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI28 B	3x05056 4x05056 I:5055	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI29 A	3x05057 4x05057 I:5056	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI29 B	3x05058 4x05058 I:5057	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI30 A	3x05059 4x05059 I:5058	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI30 B	3x05060 4x05060 I:5059	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS DI31 A	3x05061 4x05061 I:5060	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI31 B	3x05062 4x05062 I:5061	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				

STATUS DI32 A	3x05063 4x05063 I:5062	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,CC:0,REC:0,FEC:0				
STATUS DI32 B	3x05064 4x05064 I:5063	0,0x0000 B:00 00			UINT16 R/O	
		DI:0,SKE:0,LKSE:0,LKEE:0				
STATUS						
FILTER PATTERN DI1	3x05065 4x05065 I:5064	0,0x00000000 B:00 00 00 00			UINT32 R/O	
The internal pattern for corresponding digital input for AC/DC filtering. The internal used state is created out of this internal pattern via oversampling.						
FILTER PATTERN DI2	3x05067 4x05067 I:5066	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI3	3x05069 4x05069 I:5068	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI4	3x05071 4x05071 I:5070	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI5	3x05073 4x05073 I:5072	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI6	3x05075 4x05075 I:5074	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI7	3x05077 4x05077 I:5076	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI8	3x05079 4x05079 I:5078	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI9	3x05081 4x05081 I:5080	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI10	3x05083 4x05083 I:5082	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI11	3x05085 4x05085 I:5084	0,0x00000000 B:00 00 00 00			UINT32 R/O	

FILTER PATTERN DI12	3x05087 4x05087 I:5086	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI13	3x05089 4x05089 I:5088	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI14	3x05091 4x05091 I:5090	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI15	3x05093 4x05093 I:5092	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI16	3x05095 4x05095 I:5094	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI17	3x05097 4x05097 I:5096	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI18	3x05099 4x05099 I:5098	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI19	3x05101 4x05101 I:5100	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI20	3x05103 4x05103 I:5102	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI21	3x05105 4x05105 I:5104	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI22	3x05107 4x05107 I:5106	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI23	3x05109 4x05109 I:5108	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI24	3x05111 4x05111 I:5110	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI25	3x05113 4x05113 I:5112	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI26	3x05115 4x05115 I:5114	0,0x00000000 B:00 00 00 00			UINT32 R/O	

FILTER PATTERN DI27	3x05117 4x05117 I:5116	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI28	3x05119 4x05119 I:5118	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI29	3x05121 4x05121 I:5120	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI30	3x05123 4x05123 I:5122	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI31	3x05125 4x05125 I:5124	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI32	3x05127 4x05127 I:5126	0,0x00000000 B:00 00 00 00			UINT32 R/O	
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI1						
RISE DI1	3x07001 4x07001 I:7000	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
Counter for rising edges on the digital input DIx. If the module detects a rising edge on the digital input, this counter is incremented by 1. After power on or a soft reset this counter is set always to 0. With the function RESET COUNTER this counter is also set to 0.						
FALL DI1	3x07002 4x07002 I:7001	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
Counter for falling edges on the digital input DIx. If the module detects a falling edge on the digital input, this counter is incremented by 1. After power on or a soft reset this counter is set always to 0. With the function RESET COUNTER this counter is also set to 0.						
CHANGE DI1	3x07003 4x07003 I:7002	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
Counter for events on the digital input DIx. If the module detects an event on the digital input, this counter is incremented by 1. After power on or a soft reset this counter is set always to 0. With the function RESET COUNTER this counter is also set to 0. The following events are available: Detection of a short keypress Detection of the start of a long keypress Detection of the end of a long keypress						
SHORT KEYPRESS DI1	3x07004 4x07004 I:7003	0,0x0000 B:00 00			UINT16 R/O	

		0 event(s)			
Counter for short keypress events on the digital input DIx. If the module detects a short keypress on the digital input, this counter is incremented by 1. After power on or a soft reset this counter is set always to 0. With the function RESET COUNTER this counter is also set to 0.					
LONG KEYPRESS START DI1	3x07005 4x07005 I:7004	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
Counter for start events of long keypress actions on the digital input DIx. If the module detects the start of a long keypress action on the digital input, this counter is incremented by 1. After power on or a soft reset this counter is set always to 0. With the function RESET COUNTER this counter is also set to 0.					
LONG KEYPRESS END DI1	3x07006 4x07006 I:7005	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
Counter for end events of long keypress actions on the digital input DIx. If the module detects the end of a long keypress action on the digital input, this counter is incremented by 1. After power on or a soft reset this counter is set always to 0. With the function RESET COUNTER this counter is also set to 0.					
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI2					
RISE DI2	3x07011 4x07011 I:7010	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
FALL DI2	3x07012 4x07012 I:7011	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
CHANGE DI2	3x07013 4x07013 I:7012	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
SHORT KEYPRESS DI2	3x07014 4x07014 I:7013	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
LONG KEYPRESS START DI2	3x07015 4x07015 I:7014	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
LONG KEYPRESS END DI2	3x07016 4x07016 I:7015	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI3					

RISE DI3	3x07021 4x07021 I:7020	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI3	3x07022 4x07022 I:7021	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI3	3x07023 4x07023 I:7022	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI3	3x07024 4x07024 I:7023	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI3	3x07025 4x07025 I:7024	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI3	3x07026 4x07026 I:7025	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI4						
RISE DI4	3x07031 4x07031 I:7030	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI4	3x07032 4x07032 I:7031	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI4	3x07033 4x07033 I:7032	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI4	3x07034 4x07034 I:7033	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI4	3x07035 4x07035 I:7034	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				

LONG KEYPRESS END DI4	3x07036 4x07036 I:7035	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI5						
RISE DI5	3x07041 4x07041 I:7040	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI5	3x07042 4x07042 I:7041	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI5	3x07043 4x07043 I:7042	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI5	3x07044 4x07044 I:7043	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI5	3x07045 4x07045 I:7044	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI5	3x07046 4x07046 I:7045	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI6						
RISE DI6	3x07051 4x07051 I:7050	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI6	3x07052 4x07052 I:7051	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI6	3x07053 4x07053 I:7052	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI6	3x07054 4x07054 I:7053	0,0x0000 B:00 00			UINT16 R/O	

		0 event(s)				
LONG KEYPRESS START DI6	3x07055 4x07055 I:7054	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI6	3x07056 4x07056 I:7055	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI7						
RISE DI7	3x07061 4x07061 I:7060	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI7	3x07062 4x07062 I:7061	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI7	3x07063 4x07063 I:7062	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI7	3x07064 4x07064 I:7063	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI7	3x07065 4x07065 I:7064	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI7	3x07066 4x07066 I:7065	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI8						
RISE DI8	3x07071 4x07071 I:7070	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI8	3x07072 4x07072 I:7071	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				

CHANGE DI8	3x07073 4x07073 I:7072	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI8	3x07074 4x07074 I:7073	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI8	3x07075 4x07075 I:7074	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI8	3x07076 4x07076 I:7075	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI9						
RISE DI9	3x07081 4x07081 I:7080	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI9	3x07082 4x07082 I:7081	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI9	3x07083 4x07083 I:7082	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI9	3x07084 4x07084 I:7083	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI9	3x07085 4x07085 I:7084	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI9	3x07086 4x07086 I:7085	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI10						
RISE DI10	3x07091 4x07091 I:7090	0,0x0000 B:00 00			UINT16 R/O	

		0 event(s)				
FALL DI10	3x07092 4x07092 I:7091	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI10	3x07093 4x07093 I:7092	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI10	3x07094 4x07094 I:7093	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI10	3x07095 4x07095 I:7094	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI10	3x07096 4x07096 I:7095	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI11						
RISE DI11	3x07101 4x07101 I:7100	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI11	3x07102 4x07102 I:7101	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI11	3x07103 4x07103 I:7102	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI11	3x07104 4x07104 I:7103	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI11	3x07105 4x07105 I:7104	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI11	3x07106 4x07106 I:7105	0,0x0000 B:00 00			UINT16 R/O	

		0 event(s)			
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI12					
RISE DI12	3x07111 4x07111 I:7110	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
FALL DI12	3x07112 4x07112 I:7111	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
CHANGE DI12	3x07113 4x07113 I:7112	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
SHORT KEYPRESS DI12	3x07114 4x07114 I:7113	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
LONG KEYPRESS START DI12	3x07115 4x07115 I:7114	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
LONG KEYPRESS END DI12	3x07116 4x07116 I:7115	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI13					
RISE DI13	3x07121 4x07121 I:7120	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
FALL DI13	3x07122 4x07122 I:7121	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
CHANGE DI13	3x07123 4x07123 I:7122	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			
SHORT KEYPRESS DI13	3x07124 4x07124 I:7123	0,0x0000 B:00 00			UINT16 R/O
		0 event(s)			

LONG KEYPRESS START DI13	3x07125 4x07125 I:7124	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI13	3x07126 4x07126 I:7125	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI14						
RISE DI14	3x07131 4x07131 I:7130	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI14	3x07132 4x07132 I:7131	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI14	3x07133 4x07133 I:7132	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI14	3x07134 4x07134 I:7133	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI14	3x07135 4x07135 I:7134	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI14	3x07136 4x07136 I:7135	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI15						
RISE DI15	3x07141 4x07141 I:7140	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI15	3x07142 4x07142 I:7141	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI15	3x07143 4x07143 I:7142	0,0x0000 B:00 00			UINT16 R/O	

		0 event(s)				
SHORT KEYPRESS DI15	3x07144 4x07144 I:7143	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI15	3x07145 4x07145 I:7144	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI15	3x07146 4x07146 I:7145	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI16						
RISE DI16	3x07151 4x07151 I:7150	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI16	3x07152 4x07152 I:7151	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI16	3x07153 4x07153 I:7152	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI16	3x07154 4x07154 I:7153	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI16	3x07155 4x07155 I:7154	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI16	3x07156 4x07156 I:7155	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI17						
RISE DI17	3x07161 4x07161 I:7160	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				

FALL DI17	3x07162 4x07162 I:7161	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI17	3x07163 4x07163 I:7162	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI17	3x07164 4x07164 I:7163	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI17	3x07165 4x07165 I:7164	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI17	3x07166 4x07166 I:7165	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI18						
RISE DI18	3x07171 4x07171 I:7170	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI18	3x07172 4x07172 I:7171	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI18	3x07173 4x07173 I:7172	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI18	3x07174 4x07174 I:7173	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI18	3x07175 4x07175 I:7174	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI18	3x07176 4x07176 I:7175	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				

DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI19						
RISE DI19	3x07181 4x07181 I:7180	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI19	3x07182 4x07182 I:7181	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI19	3x07183 4x07183 I:7182	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI19	3x07184 4x07184 I:7183	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI19	3x07185 4x07185 I:7184	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI19	3x07186 4x07186 I:7185	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI20						
RISE DI20	3x07191 4x07191 I:7190	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI20	3x07192 4x07192 I:7191	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI20	3x07193 4x07193 I:7192	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI20	3x07194 4x07194 I:7193	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI20	3x07195 4x07195 I:7194	0,0x0000 B:00 00			UINT16 R/O	

		0 event(s)				
LONG KEYPRESS END DI20	3x07196 4x07196 I:7195	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI21						
RISE DI21	3x07201 4x07201 I:7200	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI21	3x07202 4x07202 I:7201	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI21	3x07203 4x07203 I:7202	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI21	3x07204 4x07204 I:7203	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI21	3x07205 4x07205 I:7204	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI21	3x07206 4x07206 I:7205	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI22						
RISE DI22	3x07211 4x07211 I:7210	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI22	3x07212 4x07212 I:7211	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI22	3x07213 4x07213 I:7212	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				

SHORT KEYPRESS DI22	3x07214 4x07214 I:7213	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI22	3x07215 4x07215 I:7214	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI22	3x07216 4x07216 I:7215	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI23						
RISE DI23	3x07221 4x07221 I:7220	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI23	3x07222 4x07222 I:7221	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI23	3x07223 4x07223 I:7222	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI23	3x07224 4x07224 I:7223	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI23	3x07225 4x07225 I:7224	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI23	3x07226 4x07226 I:7225	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI24						
RISE DI24	3x07231 4x07231 I:7230	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI24	3x07232 4x07232 I:7231	0,0x0000 B:00 00			UINT16 R/O	

		0 event(s)				
CHANGE DI24	3x07233 4x07233 I:7232	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI24	3x07234 4x07234 I:7233	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI24	3x07235 4x07235 I:7234	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI24	3x07236 4x07236 I:7235	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI25						
RISE DI25	3x07241 4x07241 I:7240	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI25	3x07242 4x07242 I:7241	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI25	3x07243 4x07243 I:7242	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI25	3x07244 4x07244 I:7243	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI25	3x07245 4x07245 I:7244	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI25	3x07246 4x07246 I:7245	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI26						

RISE DI26	3x07251 4x07251 I:7250	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI26	3x07252 4x07252 I:7251	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI26	3x07253 4x07253 I:7252	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI26	3x07254 4x07254 I:7253	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI26	3x07255 4x07255 I:7254	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI26	3x07256 4x07256 I:7255	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI27						
RISE DI27	3x07261 4x07261 I:7260	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI27	3x07262 4x07262 I:7261	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI27	3x07263 4x07263 I:7262	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI27	3x07264 4x07264 I:7263	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI27	3x07265 4x07265 I:7264	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				

LONG KEYPRESS END DI27	3x07266 4x07266 I:7265	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI28						
RISE DI28	3x07271 4x07271 I:7270	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI28	3x07272 4x07272 I:7271	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI28	3x07273 4x07273 I:7272	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI28	3x07274 4x07274 I:7273	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI28	3x07275 4x07275 I:7274	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI28	3x07276 4x07276 I:7275	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI29						
RISE DI29	3x07281 4x07281 I:7280	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI29	3x07282 4x07282 I:7281	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI29	3x07283 4x07283 I:7282	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI29	3x07284 4x07284 I:7283	0,0x0000 B:00 00			UINT16 R/O	

		0 event(s)				
LONG KEYPRESS START DI29	3x07285 4x07285 I:7284	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI29	3x07286 4x07286 I:7285	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI30						
RISE DI30	3x07291 4x07291 I:7290	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI30	3x07292 4x07292 I:7291	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI30	3x07293 4x07293 I:7292	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI30	3x07294 4x07294 I:7293	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI30	3x07295 4x07295 I:7294	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI30	3x07296 4x07296 I:7295	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI31						
RISE DI31	3x07301 4x07301 I:7300	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI31	3x07302 4x07302 I:7301	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				

CHANGE DI31	3x07303 4x07303 I:7302	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI31	3x07304 4x07304 I:7303	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI31	3x07305 4x07305 I:7304	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI31	3x07306 4x07306 I:7305	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI132						
RISE DI132	3x07311 4x07311 I:7310	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
FALL DI132	3x07312 4x07312 I:7311	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
CHANGE DI132	3x07313 4x07313 I:7312	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
SHORT KEYPRESS DI132	3x07314 4x07314 I:7313	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS START DI132	3x07315 4x07315 I:7314	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				
LONG KEYPRESS END DI132	3x07316 4x07316 I:7315	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				

Register NAME Command NAME	MODBUS Register ASCII Command	Register VALUE ASCII Command	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
INITIAL & WATCHDOG STATUS FOR ALL DIGITAL OUTPUTS						
FRAM INTIAL & WATCHDOG STATUS OF DO1-DO16	3x59001 4x59001 l:59000	0,0x0000 B:00 00		0xFFFF	UINT16 R/W	NO
		Actual init & watchdog state of DO1:0=OFF	1			
		Actual init & watchdog state of DO2:0=OFF	1			
		Actual init & watchdog state of DO3:0=OFF	1			
		Actual init & watchdog state of DO4:0=OFF	1			
		Actual init & watchdog state of DO5:0=OFF	1			
		Actual init & watchdog state of DO6:0=OFF	1			
		Actual init & watchdog state of DO7:0=OFF	1			
		Actual init & watchdog state of DO8:0=OFF	1			
		Actual init & watchdog state of DO9:0=OFF	1			
		Actual init & watchdog state of DO10:0=OFF	1			
		Actual init & watchdog state of DO11:0=OFF	1			
		Actual init & watchdog state of DO12:0=OFF	1			
		Actual init & watchdog state of DO13:0=OFF	1			
		Actual init & watchdog state of DO14:0=OFF	1			
		Actual init & watchdog state of DO15:0=OFF	1			
		Actual init & watchdog state of DO16:0=OFF	1			
Current FRAM setting of initial and watchdog state of all digital outputs. This state is used after power on and after a communication watchdog timeout, if a watchdog time is configured Bit 0: =0:DO1 is OFF, =1:DO1 is ON Bit 1: =0:DO2 is OFF, =1:DO2 is ON ... Bit 14: =0:DO15 is OFF, =1:DO15 is ON Bit 15: =0:DO16 is OFF, =1:DO16 is ON Write on this register sets all digital outputs to a new state for module restart and watchdog function. The state is saved in FRAM						
FRAM INTIAL & WATCHDOG STATUS OF DO17-DO30	3x59002 4x59002 l:59001	0,0x0000 B:00 00		0x3FFF	UINT16 R/W	NO
		Actual init & watchdog state of DO17:0=OFF	1			
		Actual init & watchdog state of DO18:0=OFF	1			
		Actual init & watchdog state of DO19:0=OFF	1			
		Actual init & watchdog state of DO20:0=OFF	1			
		Actual init & watchdog state of DO21:0=OFF	1			
		Actual init & watchdog state of DO22:0=OFF	1			
		Actual init & watchdog state of DO23:0=OFF	1			
		Actual init & watchdog state of DO24:0=OFF	1			

	Actual init & watchdog state of DO25:0=OFF	1		
	Actual init & watchdog state of DO26:0=OFF	1		
	Actual init & watchdog state of DO27:0=OFF	1		
	Actual init & watchdog state of DO28:0=OFF	1		
	Actual init & watchdog state of DO29:0=OFF	1		
	Actual init & watchdog state of DO30:0=OFF	1		

Current FRAM setting of initial and watchdog state of all digital outputs. This state is used after power on and after a communication watchdog timeout, if a watchdog time is configured

Bit 0: =0:DO17 is OFF, =1:DO17 is ON

Bit 1: =0:DO18 is OFF, =1:DO18 is ON

...

Bit 12: =0:DO29 is OFF, =1:DO29 is ON

Bit 13: =0:DO30 is OFF, =1:DO30 is ON

Write on this register sets all digital outputs to a new state for module restart and watchdog function. The state is saved in FRAM

DIGITAL OUTPUTS:ENABLE OPEN WIRE DETECTION WHILE ON

INITIAL & WATCHDOG SETUP	3x59003	0,0x0000		0xFFFF	UINT16 R/W	NO
ENABLE OPEN WIRE DETECTION	4x59003	B:00 00				
WHILE ON DO1-DO16	1:59002					
		Initial setup of open wire detection while ON for DO1:0=DISABLED	1			
		Initial setup of open wire detection while ON for DO2:0=DISABLED	1			
		Initial setup of open wire detection while ON for DO3:0=DISABLED	1			
		Initial setup of open wire detection while ON for DO4:0=DISABLED	1			
		Initial setup of open wire detection while ON for DO5:0=DISABLED	1			
		Initial setup of open wire detection while ON for DO6:0=DISABLED	1			
		Initial setup of open wire detection while ON for DO7:0=DISABLED	1			
		Initial setup of open wire detection while ON for DO8:0=DISABLED	1			
		Initial setup of open wire detection while ON for DO9:0=DISABLED	1			
		Initial setup of open wire detection while ON for DO10:0=DISABLED	1			
		Initial setup of open wire detection while ON for DO11:0=DISABLED	1			
		Initial setup of open wire detection while ON for DO12:0=DISABLED	1			
		Initial setup of open wire detection while ON for DO13:0=DISABLED	1			

		Initial setup of open wire detection while ON for DO14:0=DISABLED	1		
		Initial setup of open wire detection while ON for DO15:0=DISABLED	1		
		Initial setup of open wire detection while ON for DO16:0=DISABLED	1		
Current FRAM setting for intial and watchdog state for open wire detection while ON for digital output DOx. This state is used after power on and after a communcation watchdog timeout, if a watchdog time is configured Bit 0: =0:Open wire detection for DO1 is DISABLED, =1:Open wire detection for DO1 is ENABLED Bit 1: =0:Open wire detection for DO2 is DISABLED, =1:Open wire detection for DO2 is ENABLED ... Bit 14: =0:Open wire detection for DO15 is DISABLED, =1:Open wire detection for DO15 is ENABLED Bit 15: =0:Open wire detection for DO16 is DISABLED, =1:Open wire detection for DO16 is ENABLED					
Write on this register sets all digital outputs to a new state for module restart and watchdog function. The state is saved in FRAM					
INITIAL & WATCHDOG SETUP ENABLE OPEN WIRE DETECTION WHILE ON DO17-DO30	3x59004 4x59004 1:59003	0,0x0000 B:00 00		0x3FFF	UINT16 R/W NO
		Initial setup of open wire detection while ON for DO17:0=DISABLED	1		
		Initial setup of open wire detection while ON for DO18:0=DISABLED	1		
		Initial setup of open wire detection while ON for DO19:0=DISABLED	1		
		Initial setup of open wire detection while ON for DO20:0=DISABLED	1		
		Initial setup of open wire detection while ON for DO21:0=DISABLED	1		
		Initial setup of open wire detection while ON for DO22:0=DISABLED	1		
		Initial setup of open wire detection while ON for DO23:0=DISABLED	1		
		Initial setup of open wire detection while ON for DO24:0=DISABLED	1		
		Initial setup of open wire detection while ON for DO25:0=DISABLED	1		
		Initial setup of open wire detection while ON for DO26:0=DISABLED	1		
		Initial setup of open wire detection while ON for DO27:0=DISABLED	1		
		Initial setup of open wire detection while ON for DO28:0=DISABLED	1		
		Initial setup of open wire detection while ON for DO29:0=DISABLED	1		
		Initial setup of open wire detection while ON for DO30:0=DISABLED	1		

Current FRAM setting for intial and watchdog state for open wire detection while ON for digital output DOx. This state is used after power on and after a communcation watchdog timeout, if a watchdog time is configured

Bit 0: =0:Open wire detection for DO17 is DISABLED, =1:Open wire detection for DO17 is ENABLED

Bit 1: =0:Open wire detection for DO18 is DISABLED, =1:Open wire detection for DO18 is ENABLED

...

Bit 12: =0:Open wire detection for DO29 is DISABLED, =1:Open wire detection for DO29 is ENABLED

Bit 13: =0:Open wire detection for DO30 is DISABLED, =1:Open wire detection for DO30 is ENABLED

Write on this register sets all digital outputs to a new state for module restart and watchdog function. The state is saved in FRAM

DIGITAL OUTPUTS:ENABLE OPEN WIRE DETECTION WHILE OFF

INITIAL & WATCHDOG SETUP	3x59005	0,0x0000		0xFFFF	UINT16 R/W	NO
ENABLE OPEN WIRE DETECTION	4x59005	B:00 00				
WHILE OFF DO1-DO16	1:59004					
		Initial setup of open wire detection while OFF for DO1:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO2:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO3:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO4:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO5:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO6:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO7:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO8:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO9:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO10:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO11:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO12:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO13:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO14:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO15:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO16:0=DISABLED	1			

Current FRAM setting for intial and watchdog state for open wire detection while OFF for digital output DOx. This state is used after power on and after a communcation watchdog timeout, if a watchdog time is configured Bit 0: =0:Open wire detection for DO1 is DISABLED, =1:Open wire detection for DO1 is ENABLED Bit 1: =0:Open wire detection for DO2 is DISABLED, =1:Open wire detection for DO2 is ENABLED ... Bit 14: =0:Open wire detection for DO15 is DISABLED, =1:Open wire detection for DO15 is ENABLED Bit 15: =0:Open wire detection for DO16 is DISABLED, =1:Open wire detection for DO16 is ENABLED Write on this register sets all digital outputs to a new state for module restart and watchdog function. The state is saved in FRAM						
INTIAL & WATCHDOG SETUP	3x59006	0,0x0000		0x3FFF	UINT16	NO
ENABLE OPEN WIRE DETECTION	4x59006	B:00 00			R/W	
WHILE OFF DO17-DO30	I:59005					
		Initial setup of open wire detection while OFF for DO17:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO18:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO19:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO20:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO21:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO22:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO23:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO24:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO25:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO26:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO27:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO28:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO29:0=DISABLED	1			
		Initial setup of open wire detection while OFF for DO30:0=DISABLED	1			
Current FRAM setting for intial and watchdog state for open wire detection while OFF for digital output DOx. This state is used after power on and after a communcation watchdog timeout, if a watchdog time is configured Bit 0: =0:Open wire detection for DO17 is DISABLED, =1:Open wire detection for DO17 is ENABLED Bit 1: =0:Open wire detection for DO18 is DISABLED, =1:Open wire detection for DO18 is ENABLED ... Bit 12: =0:Open wire detection for DO29 is DISABLED, =1:Open wire detection for DO29 is ENABLED Bit 13: =0:Open wire detection for DO30 is DISABLED, =1:Open wire detection for DO30 is ENABLED Write on this register sets all digital outputs to a new state for module restart and watchdog function. The state is saved in FRAM						

DIGITAL OUTPUTS:ENABLE SHORTCUT DETECTION WHILE OFF						
INITIAL & WATCHDOG SETUP ENABLE SHORTCUT TO VDD DETECTION WHILE OFF DO1-DO16	3x59007 4x59007 1:59006	0,0x0000 B:00 00		0xFFFF	UINT16 R/W	NO
		Initial setup of shortcut to VDD detection while OFF for DO1:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO2:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO3:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO4:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO5:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO6:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO7:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO8:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO9:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO10:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO11:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO12:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO13:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO14:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO15:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO16:0=DISABLED	1			
Current FRAM setting for intial and watchdog state for shortcut to VDD detection while OFF for digital output DOx. This state is used after power on and after a communcation watchdog timeout, if a watchdog time is configured Bit 0: =0:Shortcut detection for DO1 is DISABLED, =1:Shortcut detection for DO1 is ENABLED Bit 1: =0:Shortcut detection for DO2 is DISABLED, =1:Shortcut detection for DO2 is ENABLED ... Bit 14: =0:Shortcut detection for DO15 is DISABLED, =1:Shortcut detection for DO15 is ENABLED Bit 15: =0:Shortcut detection for DO16 is DISABLED, =1:Shortcut detection for DO16 is ENABLED Write on this register sets all digital outputs to a new state for module restart and watchdog function. The state is saved in FRAM						

INITIAL & WATCHDOG SETUP ENABLE SHORTCUT TO VDD DETECTION WHILE OFF DO17-DO30	3x59008 4x59008 1:59007	0,0x0000 B:00 00		0x3FFF	UINT16 R/W	NO
		Initial setup of shortcut to VDD detection while OFF for DO17:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO18:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO19:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO20:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO21:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO22:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO23:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO24:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO25:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO26:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO27:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO28:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO29:0=DISABLED	1			
		Initial setup of shortcut to VDD detection while OFF for DO30:0=DISABLED	1			
Current FRAM setting for intial and watchdog state for shortcut to VDD detection while OFF for digital output DOx. This state is used after power on and after a communcation watchdog timeout, if a watchdog time is configured Bit 0: =0:Shortcut detection for DO17 is DISABLED, =1:Shortcut detection for DO17 is ENABLED Bit 1: =0:Shortcut detection for DO18 is DISABLED, =1:Shortcut detection for DO18 is ENABLED ... Bit 12: =0:Shortcut detection for DO29 is DISABLED, =1:Shortcut detection for DO29 is ENABLED Bit 13: =0:Shortcut detection for DO30 is DISABLED, =1:Shortcut detection for DO30 is ENABLED Write on this register sets all digital outputs to a new state for module restart and watchdog function. The state is saved in FRAM						

Register NAME Command NAME	MODBUS Register ASCII Command	Register VALUE ASCII Command	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
ASCII COMMANDS						
AIOX CONFIGURATION						
SET IO TYPES	ASCII WRITE COMMAND	#SIOTYPS:<IOTyp1>,<IOTyp2>,<IOTyp3>,<IOTyp4>,<IOTyp5>,<IOTyp6>,<IOTyp7>,<IOTyp8>,<IOTyp9>,<IOTyp10>,<IOTyp11>,<IOTyp12>,<IOTyp13>,<IOTyp14>,<IOTyp15>,<IOTyp16><CR> Result: #OK<CR>			ASCII	YES
	IOTyp1	VO[0-10V]				
	IOTyp2	VO[0-10V]				
	IOTyp3	VO[0-10V]				
	IOTyp4	VO[0-10V]				
	IOTyp5	VO[0-10V]				
	IOTyp6	VO[0-10V]				
	IOTyp7	VO[0-10V]				
	IOTyp8	VO[0-10V]				
	IOTyp9	VO[0-10V]				
	IOTyp10	VO[0-10V]				
	IOTyp11	VO[0-10V]				
	IOTyp12	VO[0-10V]				
	IOTyp13	VO[0-10V]				
	IOTyp14	VO[0-10V]				
	IOTyp15	VO[0-10V]				
	IOTyp16	VO[0-10V]				
	TX	#1,SIOTYPS:VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V]<CR>				
	RX	#1,OK<CR>				
This command defines for all 16 universal IOs a new type of IO: IOTypx stands for the new type: UU: Unused – high impedance VI[0-10V]: VOLTAGE INPUT for 0 to 10V Signals VI[2-10V]: VOLTAGE INPUT for 2 to 10V Signals VO[0-10V]: VOLTAGE OUTPUT for 0 to 10V Signals VO[2-10V]: VOLTAGE OUTPUT for 2 to 10V Signals CI[0-20mA;LP]: CURRENT INPUT for 0 to 20mA Signals – loop powered CI[4-20mA;LP]: CURRENT INPUT for 4 to 20mA Signals – loop powered CI[0-20mA;EP]: CURRENT INPUT for 0 to 20mA Signals – external powered CI[4-20mA;EP]: CURRENT INPUT for 4 to 20mA Signals – external powered CO[0-20mA]: CURRENT OUTPUT for 0 to 20mA Signals CO[4-20mA]: CURRENT OUTPUT for 4 to 20mA Signals RTDI[OHM]: RTD SENSOR INPUT for Ohm measurement between 0 and 1MOhm DI[24V;L]: DIGITAL INPUT for 24Vdc – logic, threshold 12V DI[24V;LP]: DIGITAL INPUT for 24Vdc – loop powered HINT: The last IO type is automatically stored in FRAM and will be used after a system restart.						

SET IO TYPx	ASCII WRITE COMMAND	#SIOTYP<IONR>:<IOTypx> <CR> Result: #OK<CR>	ASCII	YES
	IONR	1		
	IOTypx	VO[0-10V]		
	TX	#1,SIOTYP1:VO[0-10V] <CR>		
	RX	#1,OK<CR>		

This command defines for the universal IO IONR a new type of IO:
IOTypx stands for the new type:
UU: Unused – high impedance
VI[0-10V]: VOLTAGE INPUT for 0 to 10V Signals
VI[2-10V]: VOLTAGE INPUT for 2 to 10V Signals
VO[0-10V]: VOLTAGE OUTPUT for 0 to 10V Signals
VO[2-10V]: VOLTAGE OUTPUT for 2 to 10V Signals
CI[0-20mA;LP]: CURRENT INPUT for 0 to 20mA Signals – loop powered
CI[4-20mA;LP]: CURRENT INPUT for 4 to 20mA Signals – loop powered
CI[0-20mA;EP]: CURRENT INPUT for 0 to 20mA Signals – external powered
CI[4-20mA;EP]: CURRENT INPUT for 4 to 20mA Signals – external powered
CO[0-20mA]: CURRENT OUTPUT for 0 to 20mA Signals
CO[4-20mA]: CURRENT OUTPUT for 4 to 20mA Signals
RTDI[OHM]: RTD SENSOR INPUT for Ohm measurement between 0 and 1MOhm
DI[24V;L]: DIGITAL INPUT for 24Vdc – logic, threshold 12V
DI[24V;LP]: DIGITAL INPUT for 24Vdc – loop powered

HINT: The last IO type is automatically stored in FRAM and will be used after a system restart.

GET IO TYPES	ASCII READ COMMAND	#GIOTYPS<CR> Result: #GIOTYPS:<IOTyp1Txt>,<IOTyp2Txt>,...,<IOTyp16Txt> <CR>	ASCII	
	TX	#1,GIOTYPS<CR>		
	RX	#1,GIOTYPS:VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V],VO[0-10V] <CR>		
		Actual type of IO1:VO[0-10V]		
		Actual type of IO2:VO[0-10V]		
		Actual type of IO3:VO[0-10V]		
		Actual type of IO4:VO[0-10V]		
		Actual type of IO5:VO[0-10V]		
		Actual type of IO6:VO[0-10V]		
		Actual type of IO7:VO[0-10V]		
		Actual type of IO8:VO[0-10V]		
		Actual type of IO9:VO[0-10V]		
		Actual type of IO10:VO[0-10V]		
		Actual type of IO11:VO[0-10V]		
		Actual type of IO12:VO[0-10V]		
		Actual type of IO13:VO[0-10V]		
		Actual type of IO14:VO[0-10V]		
		Actual type of IO15:VO[0-10V]		
		Actual type of IO16:VO[0-10V]		

This command shows for all 16 universal IOs the current selected type of IO: IOTypx stands for the types: UU: Unused – high impedance VI[0-10V]: VOLTAGE INPUT for 0 to 10V Signals VI[2-10V]: VOLTAGE INPUT for 2 to 10V Signals VO[0-10V]: VOLTAGE OUTPUT for 0 to 10V Signals VO[2-10V]: VOLTAGE OUTPUT for 2 to 10V Signals CI[0-20mA;LP]: CURRENT INPUT for 0 to 20mA Signals – loop powered CI[4-20mA;LP]: CURRENT INPUT for 4 to 20mA Signals – loop powered CI[0-20mA;EP]: CURRENT INPUT for 0 to 20mA Signals – external powered CI[4-20mA;EP]: CURRENT INPUT for 4 to 20mA Signals – external powered CO[0-20mA]: CURRENT OUTPUT for 0 to 20mA Signals CO[4-20mA]: CURRENT OUTPUT for 4 to 20mA Signals RTDI[OHM]: RTD SENSOR INPUT for Ohm measurement between 0 and 1MOhm DI[24V;L]: DIGITAL INPUT for 24Vdc – logic, threshold 12V DI[24V;LP]: DIGITAL INPUT for 24Vdc – loop powered				
GET IO TYPx	ASCII READ COMMAND	#GIOTYP<IONR> <CR> Result: #GIOTYP<IONR>:<IOTypxTxt> <CR>	ASCII	
	IONR	1		
	TX	#1,GIOTYP1<CR>		
	RX	#1,GIOTYP1:VO[0-10V] <CR>		
		Actual type of IO1:VO[0-10V]		
This command shows for the universal IO IONR the current selected type: IOTypx stands for the types: UU: Unused – high impedance VI[0-10V]: VOLTAGE INPUT for 0 to 10V Signals VI[2-10V]: VOLTAGE INPUT for 2 to 10V Signals VO[0-10V]: VOLTAGE OUTPUT for 0 to 10V Signals VO[2-10V]: VOLTAGE OUTPUT for 2 to 10V Signals CI[0-20mA;LP]: CURRENT INPUT for 0 to 20mA Signals – loop powered CI[4-20mA;LP]: CURRENT INPUT for 4 to 20mA Signals – loop powered CI[0-20mA;EP]: CURRENT INPUT for 0 to 20mA Signals – external powered CI[4-20mA;EP]: CURRENT INPUT for 4 to 20mA Signals – external powered CO[0-20mA]: CURRENT OUTPUT for 0 to 20mA Signals CO[4-20mA]: CURRENT OUTPUT for 4 to 20mA Signals RTDI[OHM]: RTD SENSOR INPUT for Ohm measurement between 0 and 1MOhm DI[24V;L]: DIGITAL INPUT for 24Vdc – logic, threshold 12V DI[24V;LP]: DIGITAL INPUT for 24Vdc – loop powered				
VOLTAGE INPUTS				
GET VOLTAGE INPUTS IN VOLT	ASCII READ COMMAND	#GVISV<CR> Result: #GVISV:<IOVolt1DbI>,<IOVolt2DbI>,...,<IOVolt16DbI> <CR>	ASCII	
	TX	#1,GVISV<CR>		
	RX	#1,GVISV:999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99<CR>		
		Actual voltage on IO1:999.99V		
		Actual voltage on IO2:999.99V		
		Actual voltage on IO3:999.99V		

This command shows for the VOLTAGE INPUT IO <IONR> the current measurement in Volt. The measurement range is 0.0 to 10.00V. All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.				
GET VOLTAGE INPUTS IN PERCENT	ASCII READ COMMAND	#GVISP<CR> Result: #GVISP:<IOPercent1DbI>,<IOPercent2DbI>,...,<IOPercent16DbI><CR>	ASCII	
	TX	#1,GVISP<CR>		
	RX	#1,GVISP:999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99<CR>		
		Actual percentage on IO1:999.99%		
		Actual percentage on IO2:999.99%		
		Actual percentage on IO3:999.99%		
		Actual percentage on IO4:999.99%		
		Actual percentage on IO5:999.99%		
		Actual percentage on IO6:999.99%		
		Actual percentage on IO7:999.99%		
		Actual percentage on IO8:999.99%		
		Actual percentage on IO9:999.99%		
		Actual percentage on IO10:999.99%		
		Actual percentage on IO11:999.99%		
		Actual percentage on IO12:999.99%		
		Actual percentage on IO13:999.99%		

		Actual percentage on IO14:999.99%		
		Actual percentage on IO15:999.99%		
		Actual percentage on IO16:999.99%		
This command shows for all VOLTAGE INPUT IOs the current measurement in Percent. The measurement range is 0.0V -> 0.0% to 10.00V -> 100.0%. All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.				
GET VOLTAGE INPUT IN PERCENT	ASCII READ COMMAND	#GVIP<IONR> <CR> Result: #GVIP<IONR>:<IOxPercentDbI> <CR>	ASCII	
	IONR	1		
	TX	#1,GVIP1<CR>		
	RX	#1,GVIP1:999.99<CR>		
		Actual percentage on IO1:999.99%		
This command shows for VOLTAGE INPUT IO <IONR> the current measurement in Percent. The measurement range is 0.0V -> 0.0% to 10.00V -> 100.0%. All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.				
VOLTAGE DIGITAL INPUTS				
GET VOLTAGE DIGITAL INPUTS	ASCII READ COMMAND	#GVDIS<CR> Result: #GVDIS:<IODI1Dec>,<IODI2Dec>,...,<IODI16Dec> <CR>	ASCII	
	TX	#1,GVDIS<CR>		
	RX	#1,GVDIS:X,X,X,X,X,X,X,X,X,X,X,X,X,X,X,X<CR>		
		Actual voltage digital input state on IO1:X		
		Actual voltage digital input state on IO2:X		
		Actual voltage digital input state on IO3:X		
		Actual voltage digital input state on IO4:X		
		Actual voltage digital input state on IO5:X		
		Actual voltage digital input state on IO6:X		
		Actual voltage digital input state on IO7:X		
		Actual voltage digital input state on IO8:X		
		Actual voltage digital input state on IO9:X		
		Actual voltage digital input state on IO10:X		
		Actual voltage digital input state on IO11:X		
		Actual voltage digital input state on IO12:X		
		Actual voltage digital input state on IO13:X		
		Actual voltage digital input state on IO14:X		
		Actual voltage digital input state on IO15:X		
		Actual voltage digital input state on IO16:X		
This command shows for all VOLTAGE DIGITAL INPUT IOs the current state. The digital input can have the values 0 and 1. All IOs with a different usage type will return X to indicate, that no measurement is done.				
GET VOLTAGE DIGITAL INPUT	ASCII READ COMMAND	#GVDI<IONR> <CR> Result: #GVDI<IONR>:<IOxDIDec> <CR>	ASCII	
	IONR	1		
	TX	#1,GVDI1<CR>		

	RX	#1,GVDI3:X<CR>		
		Actual voltage digital input state on IO1:X		
This command shows for VOLTAGE DIGITAL INPUT IO <IONR> the current state. The digital input can have the values 0 and 1. All IOs with a different usage type will return X to indicate, that no measurement is done.				
GET VOLTAGE DIGITAL INPUTS CURRENT	ASCII READ COMMAND	#GVDISC<CR> Result: #GVDISC:<IOmA1DbI>,<IOmA2DbI>,...,<IOmA16DbI><CR>	ASCII	
	TX	#1,GVDISC<CR>		
	RX	#1,GVDISC:999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99<CR>		
		Actual input current on IO1:999.99mA		
		Actual input current on IO2:999.99mA		
		Actual input current on IO3:999.99mA		
		Actual input current on IO4:999.99mA		
		Actual input current on IO5:999.99mA		
		Actual input current on IO6:999.99mA		
		Actual input current on IO7:999.99mA		
		Actual input current on IO8:999.99mA		
		Actual input current on IO9:999.99mA		
		Actual input current on IO10:999.99mA		
		Actual input current on IO11:999.99mA		
		Actual input current on IO12:999.99mA		
		Actual input current on IO13:999.99mA		
		Actual input current on IO14:999.99mA		
		Actual input current on IO15:999.99mA		
		Actual input current on IO16:999.99mA		
This command shows for all VOLTAGE DIGITAL INPUT IOs the actual current in mA. The measurement range is 0.0mA to 35mA. All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.				
GET VOLTAGE DIGITAL INPUT CURRENT	ASCII READ COMMAND	#GVDIC<IONR><CR> Result: #GVDIC<IONR>:<IOxmADbI><CR>	ASCII	
	IONR	1		
	TX	#1,GVDIC1<CR>		
	RX	#1,GVDIC1:999.99<CR>		
		Actual input current on IO1:999.99mA		
This command shows for VOLTAGE DIGITAL INPUT IO <IONR> the actual current in mA. The measurement range is 0.0mA to 35mA. All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.				
VOLTAGE OUTPUTS				
SET VOLTAGE OUTPUTS IN VOLT	ASCII WRITE COMMAND	#SVOSV:<IO1VoltDbI>,<IO2VoltDbI>,<IO3VoltDbI>,<IO4VoltDbI>,<IO5VoltDbI>,<IO6VoltDbI>,<IO7VoltDbI>,<IO8VoltDbI>,<IO9VoltDbI>,<IO10VoltDbI>,<IO11VoltDbI>,<IO12VoltDbI>,<IO13VoltDbI>,<IO14VoltDbI>,<IO15VoltDbI>,<IO16VoltDbI><CR> Result: #OK<CR>	ASCII	YES

	IO1Volt	10,000		
	IO2Volt	7,500		
	IO3Volt	5,500		
	IO4Volt	2,500		
	IO5Volt	10,000		
	IO6Volt	7,500		
	IO7Volt	5,500		
	IO8Volt	2,500		
	IO9Volt	10,000		
	IO10Volt	7,500		
	IO11Volt	5,500		
	IO12Volt	2,500		
	IO13Volt	10,000		
	IO14Volt	7,500		
	IO15Volt	5,500		
	IO16Volt	2,500		
	TX	#1,SVOVS:10,7.5,5.5,2.5,10,7.5,5.5,2.5,10,7.5,5.5,2.5,10,7.5,5.5,2.5<CR>		
	RX	#1,OK<CR>		

This command sets for all VOLTAGE OUTPUT IOs the current output voltage in Volt.
The range is 0.0 to 11.00V.

SET VOLTAGE OUTPUTx IN VOLT	ASCII WRITE COMMAND	#SVOV<IONR>:<IOxVoltDbl><CR> Result: #OK<CR>	ASCII	NO
	IONR	1		
	IOxVolt	2,000		
	TX	#1,SVOV1:2<CR>		
	RX	N/A		

This command sets for VOLTAGE OUTPUT IO <IONR> the current output voltage in Volt.
The range is 0.0 to 11.00V.

SET VOLTAGE OUTPUTS IN PERCENT	ASCII WRITE COMMAND	#SVOSP:<IO1PercentDbl>,<IO2PercentDbl>,<IO3PercentDbl>,<IO4PercentDbl>,<IO5PercentDbl>,<IO6PercentDbl>,<IO7PercentDbl>,<IO8PercentDbl>,<IO9PercentDbl>,<IO10PercentDbl>,<IO11PercentDbl>,<IO12PercentDbl>,<IO13PercentDbl>,<IO14PercentDbl>,<IO15PercentDbl>,<IO16PercentDbl><CR> Result: #OK<CR>	ASCII	NO
	IO1Percent	110,000		
	IO2Percent	100,000		
	IO3Percent	75,000		
	IO4Percent	50,000		
	IO5Percent	110,000		
	IO6Percent	100,000		
	IO7Percent	75,000		
	IO8Percent	50,000		
	IO9Percent	110,000		

	IO10Percent	100,000		
	IO11Percent	75,000		
	IO12Percent	50,000		
	IO13Percent	110,000		
	IO14Percent	100,000		
	IO15Percent	75,000		
	IO16Percent	50,000		
	TX	#1,SVOSP:110,100,75,50,110,100,75,50,110,100,75,50,110,100,75,50<CR>		
	RX	N/A		

This command sets for all VOLTAGE OUTPUT IOs the current output voltage in Percent.
The range is 0.0V -> 0.00% to 11.00V -> 110.00%.

SET VOLTAGE OUTPUTx IN PERCENT	ASCII WRITE COMMAND	#SVOP<IONR>:<IOxPercentDbI> <CR> Result: #OK<CR>	ASCII	NO
	IONR	1		
	IOxPercent	2,000		
	TX	#1,SVOP1:2<CR>		
	RX	N/A		

This command sets for VOLTAGE OUTPUT IO <IONR> the current output voltage in Percent.
The range is 0.0V -> 0.00% to 11.00V -> 110.00%.

GET VOLTAGE OUTPUTS IN VOLT	ASCII READ COMMAND	#GVOSV<CR> Result: #GVOSV:<IO1VoltDbI>,<IO2VoltDbI>,...,<IO16VoltDbI> <CR>	ASCII	
	TX	#1,GVOSV<CR>		
	RX	#1,GVOSV:0.00,0.00,0.00,0.00,0.00,0.00,0.00,0.00,0.00,0.00,0.00,0.00,0.00,0.00,0.00,0.00<CR>		
		Actual voltage output on IO1:0.00V		
		Actual voltage output on IO2:0.00V		
		Actual voltage output on IO3:0.00V		
		Actual voltage output on IO4:0.00V		
		Actual voltage output on IO5:0.00V		
		Actual voltage output on IO6:0.00V		
		Actual voltage output on IO7:0.00V		
		Actual voltage output on IO8:0.00V		
		Actual voltage output on IO9:0.00V		
		Actual voltage output on IO10:0.00V		
		Actual voltage output on IO11:0.00V		
		Actual voltage output on IO12:0.00V		
		Actual voltage output on IO13:0.00V		
		Actual voltage output on IO14:0.00V		
		Actual voltage output on IO15:0.00V		
		Actual voltage output on IO16:0.00V		

This command shows for all VOLTAGE OUTPUT IOs the current output voltage in Volt.
The range is 0.0V to 11.00V.
All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.

GET VOLTAGE OUTPUT IN VOLT	ASCII READ COMMAND	#GVOV<IONR> <CR> Result: #GVOV<IONR>:<IOxVoltDbI> <CR>	ASCII	
	IONR	1		
	TX	#1,GVOV1<CR>		
	RX	#1,GVOV3:5.50<CR>		
		Actual voltage output on IO1:5.50V		

This command shows for VOLTAGE OUTPUT IO <IONR> the current output voltage in Volt.

The range is 0.0V to 11.00V.

All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.

GET VOLTAGE OUTPUTS IN PERCENT	ASCII READ COMMAND	#GVOSP<CR> Result: #GVOSP:<IO1PercentDbI>,<IO2PercentDbI>,...,<IO16PercentDbI> <CR>	ASCII	
	TX	#1,GVOSP<CR>		
	RX	#1,GVOSP:100.00,75.00,55.00,25.00,100.00,75.00,55.00,25.00,100.00,75.00,55.00,25.00,100.00,75.00,55.00,25.00<CR>		
		Actual percentage voltage output on IO1:100.00%		
		Actual percentage voltage output on IO2:75.00%		
		Actual percentage voltage output on IO3:55.00%		
		Actual percentage voltage output on IO4:25.00%		
		Actual percentage voltage output on IO5:100.00%		
		Actual percentage voltage output on IO6:75.00%		
		Actual percentage voltage output on IO7:55.00%		
		Actual percentage voltage output on IO8:25.00%		
		Actual percentage voltage output on IO9:100.00%		
		Actual percentage voltage output on IO10:75.00%		
		Actual percentage voltage output on IO11:55.00%		
		Actual percentage voltage output on IO12:25.00%		
		Actual percentage voltage output on IO13:100.00%		
		Actual percentage voltage output on IO14:75.00%		
		Actual percentage voltage output on IO15:55.00%		
		Actual percentage voltage output on IO16:25.00%		

This command shows for all VOLTAGE OUTPUT IOs the current output voltage in Percent.

The range is 0.0V -> 0.00% to 11.00V -> 110.00% (10.00V -> 100.00%).

All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.

GET VOLTAGE OUTPUT IN PERCENT	ASCII READ COMMAND	#GVOP<IONR> <CR> Result: #GVOP<IONR>:<IOxPercentDbI> <CR>	ASCII	
	IONR	1		
	TX	#1,GVOP1<CR>		
	RX	#1,GVOP3:55.00<CR>		
		Actual percentage voltage output on IO1:55.00%		

This command shows for VOLTAGE OUTPUT IO <IONR> the current output voltage in Percent.

The range is 0.0V -> 0.00% to 11.00V -> 110.00% (10.00V -> 100.00%).

All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.

GET VOLTAGE OUTPUTS CURRENT	ASCII READ COMMAND	#GVOSC<CR> Result: #GVOSC:<IOmA1Dbl>,<IOmA2Dbl>,...,<IOmA16Dbl><CR>	ASCII	
	TX	#1,GVOSC<CR>		
	RX	#1,GVOSC:0.00,0.00,0.00,-0.00,-0.00,0.00,0.00,0.00,0.00,0.00,0.00,0.00,0.00,0.00,0.00,0.00<CR>		
		Actual output current on IO1:0.00mA		
		Actual output current on IO2:0.00mA		
		Actual output current on IO3:0.00mA		
		Actual output current on IO4:-0.00mA		
		Actual output current on IO5:-0.00mA		
		Actual output current on IO6:0.00mA		
		Actual output current on IO7:0.00mA		
		Actual output current on IO8:0.00mA		
		Actual output current on IO9:0.00mA		
		Actual output current on IO10:0.00mA		
		Actual output current on IO11:0.00mA		
		Actual output current on IO12:0.00mA		
		Actual output current on IO13:0.00mA		
		Actual output current on IO14:0.00mA		
		Actual output current on IO15:0.00mA		
		Actual output current on IO16:0.00mA		

This command shows for all VOLTAGE OUTPUT IOs the actual current in mA.

The measurement range is 0.0mA to 35mA.

All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.

GET VOLTAGE OUTPUT CURRENT	ASCII READ COMMAND	#GVOC<IONR><CR> Result: #GVOC<IONR>:<IOxmADbl><CR>	ASCII	
	IONR	1		
	TX	#1,GVOC1<CR>		
	RX	#1,GVOC1:0.00<CR>		
		Actual output current on IO1:0.00mA		

This command shows for VOLTAGE OUTPUT IO <IONR> the actual current in mA.

The measurement range is 0.0mA to 35mA.

All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.

CURRENT INPUTS

GET CURRENT INPUTS IN mA	ASCII READ COMMAND	#GCISMA<CR> Result: #GCISMA:<IO1mADbl>,<IO2mADbl>,...,<IO16mADbl><CR>	ASCII	
	TX	#1,GCISMA<CR>		
	RX	#1,GCISMA:999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99<CR>		
		Actual current input on IO1:999.99mA		
		Actual current input on IO2:999.99mA		
		Actual current input on IO3:999.99mA		
		Actual current input on IO4:999.99mA		

		Actual current input on IO5:999.99mA		
		Actual current input on IO6:999.99mA		
		Actual current input on IO7:999.99mA		
		Actual current input on IO8:999.99mA		
		Actual current input on IO9:999.99mA		
		Actual current input on IO10:999.99mA		
		Actual current input on IO11:999.99mA		
		Actual current input on IO12:999.99mA		
		Actual current input on IO13:999.99mA		
		Actual current input on IO14:999.99mA		
		Actual current input on IO15:999.99mA		
		Actual current input on IO16:999.99mA		

This command shows for all CURRENT INPUT IOs the current measured input current in mA.

The range is 0.00 to 25.00mA

All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.

GET CURRENT INPUT IN mA	ASCII READ COMMAND	#GCIMA<IONR><CR> Result: #GCIMA<IONR>:<IOxmADbl><CR>	ASCII	
	IONR	1		
	TX	#1,GCIMA1<CR>		
	RX	#1,GCIMA3:999.99<CR>		
		Actual current input on IO1:999.99mA		

This command shows for CURRENT INPUT IO <IONR> the current measured input current in mA.

The range is 0.00 to 25.00mA

All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.

GET CURRENT INPUTS IN PERCENT	ASCII READ COMMAND	#GCISP<CR> Result: #GCISP:<IO1PercentDbl>,<IO2PercentDbl>,...,<IO16PercentDbl><CR>	ASCII	
	TX	#1,GCISP<CR>		
	RX	#1,GCISP:999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99<CR>		
		Actual percentage for current input on IO1:999.99%		
		Actual percentage for current input on IO2:999.99%		
		Actual percentage for current input on IO3:999.99%		
		Actual percentage for current input on IO4:999.99%		
		Actual percentage for current input on IO5:999.99%		
		Actual percentage for current input on IO6:999.99%		
		Actual percentage for current input on IO7:999.99%		
		Actual percentage for current input on IO8:999.99%		
		Actual percentage for current input on IO9:999.99%		
		Actual percentage for current input on IO10:999.99%		
		Actual percentage for current input on IO11:999.99%		
		Actual percentage for current input on IO12:999.99%		
		Actual percentage for current input on IO13:999.99%		
		Actual percentage for current input on IO14:999.99%		

		Actual percentage for current input on IO15:999.99%		
		Actual percentage for current input on IO16:999.99%		
This command shows for all CURRENT INPUT IOs the current measured input current in Percent. The range is 0.00mA -> 0.00% to 25.00mA -> 125.00% (20mA=100%) All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.				
GET CURRENT INPUT IN PERCENT	ASCII READ COMMAND	#GCIP<IONR><CR> Result: #GCIP<IONR>:<IOxPercentDbl><CR>	ASCII	
	IONR	1		
	TX	#1,GCIP1<CR>		
	RX	#1,GCIP3:999.99<CR>		
		Actual percentage for current input on IO1:999.99%		
This command shows for CURRENT INPUT IO <IONR> the current measured input current in Percent. The range is 0.00mA -> 0.00% to 25.00mA -> 125.00% (20mA=100%) All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.				
CURRENT OUTPUTS				
SET CURRENT OUTPUTS IN mA	ASCII WRITE COMMAND	#SCOSMA:<IO1mADbl>,<IO2mADbl>,<IO3mADbl>,<IO4mADbl>,<IO5mADbl>,<IO6mADbl>,<IO7mADbl>,<IO8mADbl>,<IO9mADbl>,<IO10mADbl>,<IO11mADbl>,<IO12mADbl>,<IO13mADbl>,<IO14mADbl>,<IO15mADbl>,<IO16mADbl><CR> Result: #OK<CR>	ASCII	NO
	IO1mA	2,000		
	IO2mA	4,000		
	IO3mA	6,000		
	IO4mA	25,000		
	IO5mA	,000		
	IO6mA	,000		
	IO7mA	,000		
	IO8mA	,000		
	IO9mA	,000		
	IO10mA	,000		
	IO11mA	,000		
	IO12mA	,000		
	IO13mA	,000		
	IO14mA	,000		
	IO15mA	,000		
	IO16mA	,000		
	TX	#1,SCOSMA:2,4,6,25,0,0,0,0,0,0,0,0,0,0,0,0<CR>		
	RX	N/A		
This command sets for all CURRENT OUTPUT IOs the actual output current in mA. The range is 0.00mA to 25.00mA				
SET CURRENT OUTPUTx IN mA	ASCII WRITE COMMAND	#SCOMA<IONR>:<IOxmADbl><CR> Result: #OK<CR>	ASCII	NO
	IONR	1		
	IOxVolt	2,000		

	TX	#1,SCOMA1:<IOxADbl> <CR>		
	RX	N/A		
This command sets for CURRENT OUTPUT <IONR> IOs the actual output current in mA. The range is 0.00mA to 25.00mA				
SET CURRENT OUTPUTS IN PERCENT	ASCII WRITE COMMAND	#SCOSP:<IO1PercentDbl>,<IO2PercentDbl>,<IO3PercentDbl>,<IO4PercentDbl>,<IO5PercentDbl>,<IO6PercentDbl>,<IO7PercentDbl>,<IO8PercentDbl>,<IO9PercentDbl>,<IO10PercentDbl>,<IO11PercentDbl>,<IO12PercentDbl>,<IO13PercentDbl>,<IO14PercentDbl>,<IO15PercentDbl>,<IO16PercentDbl> <CR> Result: #OK<CR>	ASCII	NO
	IO1Percent	125,000		
	IO2Percent	100,000		
	IO3Percent	75,000		
	IO4Percent	50,000		
	IO5Percent	,000		
	IO6Percent	,000		
	IO7Percent	,000		
	IO8Percent	,000		
	IO9Percent	,000		
	IO10Percent	,000		
	IO11Percent	,000		
	IO12Percent	,000		
	IO13Percent	,000		
	IO14Percent	,000		
	IO15Percent	,000		
	IO16Percent	,000		
	TX	#1,SCOSP:125,100,75,50,0,0,0,0,0,0,0,0,0,0,0,0<CR>		
	RX	N/A		
This command sets for all CURRENT OUTPUT IOs the new output current in Percent. The range is 0.00mA -> 0.00% to 25.00mA -> 125.00% (20mA -> 100.00%)				
SET CURRENT OUTPUTx IN PERCENT	ASCII WRITE COMMAND	#SCOP<IONR>:<IOxPercentDbl> <CR> Result: #OK<CR>	ASCII	NO
	IONR	1		
	IOxPercent	,000		
	TX	#1,SCOP1:0<CR>		
	RX	N/A		
This command sets for CURRENT OUTPUT IO <IONR> the new output current in Percent. The range is 0.00mA -> 0.00% to 25.00mA -> 125.00% (20mA -> 100.00%)				
GET CURRENT OUTPUTS IN mA	ASCII READ COMMAND	#GCOSMA<CR> Result: #GCOSMA:<IO1mADbl>,<IO2mADbl>,...,<IO16mADbl> <CR>	ASCII	
	TX	#1,GCOSMA<CR>		
	RX	#1,GCOSMA:999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99<CR>		
		Actual value of current output on IO1:999.99mA		

		Actual value of current output on IO2:999.99mA		
		Actual value of current output on IO3:999.99mA		
		Actual value of current output on IO4:999.99mA		
		Actual value of current output on IO5:999.99mA		
		Actual value of current output on IO6:999.99mA		
		Actual value of current output on IO7:999.99mA		
		Actual value of current output on IO8:999.99mA		
		Actual value of current output on IO9:999.99mA		
		Actual value of current output on IO10:999.99mA		
		Actual value of current output on IO11:999.99mA		
		Actual value of current output on IO12:999.99mA		
		Actual value of current output on IO13:999.99mA		
		Actual value of current output on IO14:999.99mA		
		Actual value of current output on IO15:999.99mA		
		Actual value of current output on IO16:999.99mA		

This command shows for all CURRENT OUTPUT IOs the actual output current in mA.

The range is 0.00mA to 25.00mA

All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.

GET CURRENT OUTPUT IN mA	ASCII READ COMMAND	#GCOMA<IONR><CR> Result: #GCOMA<IONR>:<IOxmADbl><CR>	ASCII	
	IONR	1		
	TX	#1,GCOMA1<CR>		
	RX	#1,GCOMA3:999.99<CR>		
		Actual value of current output on IO1:999.99mA		

This command shows for CURRENT OUTPUT IO <IONR> the actual output current in mA.

The range is 0.00mA to 25.00mA

All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.

GET CURRENT OUTPUTS IN PERCENT	ASCII READ COMMAND	#GCOSP<CR> Result: #GCOSP:<IO1PercentDbl>,<IO2PercentDbl>,...,<IO16PercentDbl><CR>	ASCII	
	TX	#1,GCOSP<CR>		
	RX	#1,GCOSP:999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99,999.99<CR>		
		Actual percentage of current output on IO1:999.99%		
		Actual percentage of current output on IO2:999.99%		
		Actual percentage of current output on IO3:999.99%		
		Actual percentage of current output on IO4:999.99%		
		Actual percentage of current output on IO5:999.99%		
		Actual percentage of current output on IO6:999.99%		
		Actual percentage of current output on IO7:999.99%		
		Actual percentage of current output on IO8:999.99%		
		Actual percentage of current output on IO9:999.99%		
		Actual percentage of current output on IO10:999.99%		
		Actual percentage of current output on IO11:999.99%		

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	IONR	1		
	TX	#1,GCOV1<CR>		
	RX	#1,GCOV3:999.99<CR>		
		Measured voltage of current output on IO1:999.99V		

This command shows for CURRENT OUTPUT IO <IONR> the actual output voltage in Volt.
The range is 0-10V
All IOs with a different usage type will return 999.99 to indicate, that no measurement is done.

RTD INPUTS OHM

GET RTD INPUTS IN OHM	ASCII READ COMMAND	#GRTDISOHM<CR> Result: #GRTDISOHM:<IO1OhmDbl>,<IO2OhmDbl>,...,<IO16OhmDbl><CR>	ASCII	
	TX	#1,GRTDISOHM<CR>		
	RX	#1,GRTDISOHM:99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999<CR>		
		Actual measured RTD input on IO1:99999999.999Ohm		
		Actual measured RTD input on IO2:99999999.999Ohm		
		Actual measured RTD input on IO3:99999999.999Ohm		
		Actual measured RTD input on IO4:99999999.999Ohm		
		Actual measured RTD input on IO5:99999999.999Ohm		
		Actual measured RTD input on IO6:99999999.999Ohm		
		Actual measured RTD input on IO7:99999999.999Ohm		
		Actual measured RTD input on IO8:99999999.999Ohm		
		Actual measured RTD input on IO9:99999999.999Ohm		
		Actual measured RTD input on IO10:99999999.999Ohm		
		Actual measured RTD input on IO11:99999999.999Ohm		
		Actual measured RTD input on IO12:99999999.999Ohm		
		Actual measured RTD input on IO13:99999999.999Ohm		
		Actual measured RTD input on IO14:99999999.999Ohm		
		Actual measured RTD input on IO15:99999999.999Ohm		
		Actual measured RTD input on IO16:99999999.999Ohm		

This command shows for RTD INPUT IOs the actual measured RTD value in Ohm.
The range is 0.000Ohm to 1000000.00Ohm
All IOs with a different usage type will return 99999999.999 to indicate, that no measurement is done.

GET RTD INPUT IN OHM	ASCII READ COMMAND	#GRTDIOHM<IONR><CR> Result: #GRTDIOHM<IONR>:<IOxOhmDbl><CR>	ASCII	
	IONR	1		
	TX	#1,GRTDIOHM1<CR>		
	RX	#1,GRTDIOHM3:99999999.999<CR>		
		Actual measured RTD input on IO1:99999999.999Ohm		

This command shows for RTD INPUT IO <IONR> the actual measured RTD value in Ohm.
The range is 0.000Ohm to 1000000.00Ohm
All IOs with a different usage type will return 99999999.999 to indicate, that no measurement is done.

GET AVERAGE RTD INPUTS IN OHM	ASCII READ COMMAND	#GAVGRTDISOHM<CR> Result: #GAVGRTDISOHM:<IO1OhmDbl>,<IO2OhmDbl>,...,<IO16OhmDbl><CR>	ASCII	
	TX	#1,GAVGRTDISOHM<CR>		
	RX	#1,GAVGRTDISOHM:99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999,99999999.999<CR>		
		Average measured RTD input on IO1:99999999.999Ohm		
		Average measured RTD input on IO2:99999999.999Ohm		
		Average measured RTD input on IO3:99999999.999Ohm		
		Average measured RTD input on IO4:99999999.999Ohm		
		Average measured RTD input on IO5:99999999.999Ohm		
		Average measured RTD input on IO6:99999999.999Ohm		
		Average measured RTD input on IO7:99999999.999Ohm		
		Average measured RTD input on IO8:99999999.999Ohm		
		Average measured RTD input on IO9:99999999.999Ohm		
		Average measured RTD input on IO10:99999999.999Ohm		
		Average measured RTD input on IO11:99999999.999Ohm		
		Average measured RTD input on IO12:99999999.999Ohm		
		Average measured RTD input on IO13:99999999.999Ohm		
		Average measured RTD input on IO14:99999999.999Ohm		
		Average measured RTD input on IO15:99999999.999Ohm		
		Average measured RTD input on IO16:99999999.999Ohm		

This command shows for RTD INPUT IOs the average measured RTD value in Ohm.

The range is 0.000Ohm to 1000000.00Ohm

All IOs with a different usage type will return 99999999.999 to indicate, that no measurement is done.

GET AVG RTD INPUT IN OHM	ASCII READ COMMAND	#GAVGRTDIOHM<IONR><CR> Result: #GAVGRTDIOHM<IONR>:<IOxOhmDbl><CR>	ASCII	
	IONR	1		
	TX	#1,GAVGRTDIOHM1<CR>		
	RX	#1,GAVGRTDIOHM3:99999999.999<CR>		
		Average measured RTD input on IO1:99999999.999Ohm		

This command shows for RTD INPUT IO <IONR> the average measured RTD value in Ohm.

The range is 0.000Ohm to 1000000.00Ohm

All IOs with a different usage type will return 99999999.999 to indicate, that no measurement is done.

RTD INPUTS PT100 CELSIUS

GET RTD INPUTS AS PT100 CELSIUS	ASCII READ COMMAND	#GRTDISPT100C<CR> Result: #GRTDISPT100C:<RTD1Dbl>,<RTD2Dbl>,...,<RTD16Dbl><CR>	ASCII	
	TX	#1,GRTDISPT100C<CR>		
	RX	#1,GRTDISPT100C:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Actual measured RTD input as PT100 on IO1:9999.990°C		
		Actual measured RTD input as PT100 on IO2:9999.990°C		

		Actual measured RTD input as PT100 on IO3:9999.990°C		
		Actual measured RTD input as PT100 on IO4:9999.990°C		
		Actual measured RTD input as PT100 on IO5:9999.990°C		
		Actual measured RTD input as PT100 on IO6:9999.990°C		
		Actual measured RTD input as PT100 on IO7:9999.990°C		
		Actual measured RTD input as PT100 on IO8:9999.990°C		
		Actual measured RTD input as PT100 on IO9:9999.990°C		
		Actual measured RTD input as PT100 on IO10:9999.990°C		
		Actual measured RTD input as PT100 on IO11:9999.990°C		
		Actual measured RTD input as PT100 on IO12:9999.990°C		
		Actual measured RTD input as PT100 on IO13:9999.990°C		
		Actual measured RTD input as PT100 on IO14:9999.990°C		
		Actual measured RTD input as PT100 on IO15:9999.990°C		
		Actual measured RTD input as PT100 on IO16:9999.990°C		

This command shows for RTD INPUT IOs the actual measured RTD value linearized as PT100 sensor in °Celsius.

-999.990: Temperature is lower than 50°C

+999.990: Temperature is higher than 130°C

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET RTD INPUT AS PT100 CELSIUS	ASCII READ COMMAND	#GRTDIPT100C<IONR><CR> Result: #GRTDIPT100C<IONR>:<IOxDbl><CR>	ASCII	
	IONR	1		
	TX	#1,GRTDIPT100C1<CR>		
	RX	#1,GRTDIPT100C3:9999.990<CR>		
		Actual measured RTD input as PT100 on IO1:9999.990°C		

This command shows for RTD INPUT IO <IONR> the actual measured RTD value linearized as PT100 sensor in °Celsius

-999.990: Temperature is lower than 50°C

+999.990: Temperature is higher than 130°C

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET AVERAGE RTD INPUTS AS PT100 CELSIUS	ASCII READ COMMAND	#GAVGRTDISPT100C<CR> Result: #GAVGRTDISPT100C:<RTD1Dbl>,<RTD2Dbl>,...,<RTD16Dbl><CR>	ASCII	
	TX	#1,GAVGRTDISPT100C<CR>		
	RX	#1,GAVGRTDISPT100C:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Average measured RTD input as PT100 on IO1:9999.990°C		
		Average measured RTD input as PT100 on IO2:9999.990°C		
		Average measured RTD input as PT100 on IO3:9999.990°C		
		Average measured RTD input as PT100 on IO4:9999.990°C		
		Average measured RTD input as PT100 on IO5:9999.990°C		
		Average measured RTD input as PT100 on IO6:9999.990°C		
		Average measured RTD input as PT100 on IO7:9999.990°C		
		Average measured RTD input as PT100 on IO8:9999.990°C		
		Average measured RTD input as PT100 on IO9:9999.990°C		
		Average measured RTD input as PT100 on IO10:9999.990°C		

		Average measured RTD input as PT100 on IO11:9999.990°C		
		Average measured RTD input as PT100 on IO12:9999.990°C		
		Average measured RTD input as PT100 on IO13:9999.990°C		
		Average measured RTD input as PT100 on IO14:9999.990°C		
		Average measured RTD input as PT100 on IO15:9999.990°C		
		Average measured RTD input as PT100 on IO16:9999.990°C		

This command shows for RTD INPUT IOs the average measured RTD value linearized as PT100 sensor in °Celsius.

-999.990: Temperature is lower than 50°C

+999.990: Temperature is higher than 130°C

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET AVG RTD INPUT AS PT100 CELSIUS	ASCII READ COMMAND	#GAVGRTDIPT100C<IONR><CR> Result: #GAVGRTDIPT100C<IONR>:<IOxDbl><CR>	ASCII	
	IONR	1		
	TX	#1,GAVGRTDIPT100C1<CR>		
	RX	#1,GAVGRTDIPT100C1:9999.990<CR>		
		Average measured RTD input as PT100 on IO1:9999.990°C		

This command shows for RTD INPUT IO <IONR> the average measured RTD value linearized as PT100 sensor in °Celsius

-999.990: Temperature is lower than 50°C

+999.990: Temperature is higher than 130°C

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

RTD INPUTS PT1000 CELSIUS

GET RTD INPUTS AS PT1000 CELSIUS	ASCII READ COMMAND	#GRTDISPT1000C<CR> Result: #GRTDISPT1000C:<RTD1Dbl>,<RTD2Dbl>,...,<RTD16Dbl><CR>	ASCII	
	TX	#1,GRTDISPT1000C<CR>		
	RX	#1,GRTDISPT1000C:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Actual measured RTD input as PT1000 on IO1:9999.990°C		
		Actual measured RTD input as PT1000 on IO2:9999.990°C		
		Actual measured RTD input as PT1000 on IO3:9999.990°C		
		Actual measured RTD input as PT1000 on IO4:9999.990°C		
		Actual measured RTD input as PT1000 on IO5:9999.990°C		
		Actual measured RTD input as PT1000 on IO6:9999.990°C		
		Actual measured RTD input as PT1000 on IO7:9999.990°C		
		Actual measured RTD input as PT1000 on IO8:9999.990°C		
		Actual measured RTD input as PT1000 on IO9:9999.990°C		
		Actual measured RTD input as PT1000 on IO10:9999.990°C		
		Actual measured RTD input as PT1000 on IO11:9999.990°C		
		Actual measured RTD input as PT1000 on IO12:9999.990°C		
		Actual measured RTD input as PT1000 on IO13:9999.990°C		
		Actual measured RTD input as PT1000 on IO14:9999.990°C		
		Actual measured RTD input as PT1000 on IO15:9999.990°C		
		Actual measured RTD input as PT1000 on IO16:9999.990°C		

This command shows for RTD INPUT IOs the actual measured RTD value linearized as PT1000 sensor in °Celsius.

-999.990: Temperature is lower than 50°C

+999.990: Temperature is higher than 130°C

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET RTD INPUT AS PT1000 CELSIUS	ASCII READ COMMAND	#GRTDIPT1000C<IONR><CR> Result: #GRTDIPT1000C<IONR>:<IOxDbl><CR>	ASCII	
	IONR	1		
	TX	#1,GRTDIPT1000C1<CR>		
	RX	#1,GRTDIPT1000C3:9999.990<CR>		
		Actual measured RTD input as PT1000 on IO1:9999.990°C		

This command shows for RTD INPUT IO <IONR> the actual measured RTD value linearized as PT1000 sensor in °Celsius

-999.990: Temperature is lower than 50°C

+999.990: Temperature is higher than 130°C

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET AVERAGE RTD INPUTS AS PT1000 CELSIUS	ASCII READ COMMAND	#GAVGRTDISPT1000C<CR> Result: #GAVGRTDISPT1000C:<RTD1Dbl>,<RTD2Dbl>,...,<RTD16Dbl><CR>	ASCII	
	TX	#1,GAVGRTDISPT1000C<CR>		
	RX	#1,GAVGRTDISPT1000C:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Average measured RTD input as PT1000 on IO1:9999.990°C		
		Average measured RTD input as PT1000 on IO2:9999.990°C		
		Average measured RTD input as PT1000 on IO3:9999.990°C		
		Average measured RTD input as PT1000 on IO4:9999.990°C		
		Average measured RTD input as PT1000 on IO5:9999.990°C		
		Average measured RTD input as PT1000 on IO6:9999.990°C		
		Average measured RTD input as PT1000 on IO7:9999.990°C		
		Average measured RTD input as PT1000 on IO8:9999.990°C		
		Average measured RTD input as PT1000 on IO9:9999.990°C		
		Average measured RTD input as PT1000 on IO10:9999.990°C		
		Average measured RTD input as PT1000 on IO11:9999.990°C		
		Average measured RTD input as PT1000 on IO12:9999.990°C		
		Average measured RTD input as PT1000 on IO13:9999.990°C		
		Average measured RTD input as PT1000 on IO14:9999.990°C		
		Average measured RTD input as PT1000 on IO15:9999.990°C		
		Average measured RTD input as PT1000 on IO16:9999.990°C		

This command shows for RTD INPUT IOs the average measured RTD value linearized as PT1000 sensor in °Celsius.

-999.990: Temperature is lower than 50°C

+999.990: Temperature is higher than 130°C

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET AVG RTD INPUT AS PT1000 CELSIUS	ASCII READ COMMAND	#GAVGRTDIPT1000C<IONR><CR> Result: #GAVGRTDIPT1000C<IONR>:<IOxDbl><CR>	ASCII	
	IONR	1		
	TX	#1,GAVGRTDIPT1000C1<CR>		

	RX	#1,GAVGRTDIPT1000C1:9999.990<CR>		
		Average measured RTD input as PT1000 on IO1:9999.990°C		
This command shows for RTD INPUT IO <IONR> the average measured RTD value linearized as PT1000 sensor in °Celsius -999.990: Temperature is lower than 50°C +999.990: Temperature is higher than 130°C All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.				
RTD INPUTS NI1000-DIN43760 CELSIUS				
GET RTD INPUTS AS NI1000 DIN43760 CELSIUS	ASCII READ COMMAND	#GRTDISNI1000DIN43760C<CR> Result: #GRTDISNI1000DIN43760C:<RTD1DbI>,<RTD2DbI>,...,<RTD16DbI><CR>	ASCII	
	TX	#1,GRTDISNI1000DIN43760C<CR>		
	RX	#1,GRTDISNI1000DIN43760C:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Actual measured RTD input as NI1000-DIN43760 on IO1:9999.990°C		
		Actual measured RTD input as NI1000-DIN43760 on IO2:9999.990°C		
		Actual measured RTD input as NI1000-DIN43760 on IO3:9999.990°C		
		Actual measured RTD input as NI1000-DIN43760 on IO4:9999.990°C		
		Actual measured RTD input as NI1000-DIN43760 on IO5:9999.990°C		
		Actual measured RTD input as NI1000-DIN43760 on IO6:9999.990°C		
		Actual measured RTD input as NI1000-DIN43760 on IO7:9999.990°C		
		Actual measured RTD input as NI1000-DIN43760 on IO8:9999.990°C		
		Actual measured RTD input as NI1000-DIN43760 on IO9:9999.990°C		
		Actual measured RTD input as NI1000-DIN43760 on IO10:9999.990°C		
		Actual measured RTD input as NI1000-DIN43760 on IO11:9999.990°C		
		Actual measured RTD input as NI1000-DIN43760 on IO12:9999.990°C		
		Actual measured RTD input as NI1000-DIN43760 on IO13:9999.990°C		
		Actual measured RTD input as NI1000-DIN43760 on IO14:9999.990°C		
		Actual measured RTD input as NI1000-DIN43760 on IO15:9999.990°C		
		Actual measured RTD input as NI1000-DIN43760 on IO16:9999.990°C		
This command shows for RTD INPUT IOs the actual measured RTD value linearized as NI1000 DIN43760 sensor in °Celsius. -999.990: Temperature is lower than 50°C +999.990: Temperature is higher than 130°C All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.				
GET RTD INPUT AS NI1000 DIN43760 CELSIUS	ASCII READ COMMAND	#GRTDINI1000DIN43760C<IONR><CR> Result: #GRTDINI1000DIN43760C<IONR>:<IOxDbI><CR>	ASCII	
	IONR	1		
	TX	#1,GRTDINI1000DIN43760C1<CR>		
	RX	#1,GRTDINI1000DIN43760C3:9999.990<CR>		
		Actual measured RTD input as NI1000-DIN43760 on IO1:9999.990°C		
This command shows for RTD INPUT IO <IONR> the actual measured RTD value linearized as NI1000 DIN43760 sensor in °Celsius -999.990: Temperature is lower than 50°C +999.990: Temperature is higher than 130°C All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.				

GET AVERAGE RTD INPUTS AS NI1000 DIN43760 CELSIUS	ASCII READ COMMAND	#GAVGRTDISNI1000DIN43760C<CR> Result: #GAVGRTDISNI1000DIN43760C:<RTD1Dbl>,<RTD2Dbl>,...,<RTD16Dbl><CR>	ASCII	
	TX	#1,GAVGRTDISNI1000DIN43760C<CR>		
	RX	#1,GAVGRTDISNI1000DIN43760C:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Average measured RTD input as NI1000-DIN43760 on IO1:9999.990°C		
		Average measured RTD input as NI1000-DIN43760 on IO2:9999.990°C		
		Average measured RTD input as NI1000-DIN43760 on IO3:9999.990°C		
		Average measured RTD input as NI1000-DIN43760 on IO4:9999.990°C		
		Average measured RTD input as NI1000-DIN43760 on IO5:9999.990°C		
		Average measured RTD input as NI1000-DIN43760 on IO6:9999.990°C		
		Average measured RTD input as NI1000-DIN43760 on IO7:9999.990°C		
		Average measured RTD input as NI1000-DIN43760 on IO8:9999.990°C		
		Average measured RTD input as NI1000-DIN43760 on IO9:9999.990°C		
		Average measured RTD input as NI1000-DIN43760 on IO10:9999.990°C		
		Average measured RTD input as NI1000-DIN43760 on IO11:9999.990°C		
		Average measured RTD input as NI1000-DIN43760 on IO12:9999.990°C		
		Average measured RTD input as NI1000-DIN43760 on IO13:9999.990°C		
		Average measured RTD input as NI1000-DIN43760 on IO14:9999.990°C		
		Average measured RTD input as NI1000-DIN43760 on IO15:9999.990°C		
		Average measured RTD input as NI1000-DIN43760 on IO16:9999.990°C		

This command shows for RTD INPUT IOs the average measured RTD value linearized as NI1000 DIN43760 sensor in °Celsius.

-999.990: Temperature is lower than 50°C

+999.990: Temperature is higher than 130°C

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET AVG RTD INPUT AS NI1000 DIN43760 CELSIUS	ASCII READ COMMAND	#GAVGRTDINI1000DIN43760C<IONR><CR> Result: #GAVGRTDINI1000DIN43760C<IONR>:<IOxDbl><CR>	ASCII	
	IONR	1		
	TX	#1,GAVGRTDINI1000DIN43760C1<CR>		
	RX	#1,GAVGRTDINI1000DIN43760C1:9999.990<CR>		
		Average measured RTD input as NI1000-DIN43760 on IO1:9999.990°C		

This command shows for RTD INPUT IO <IONR> the average measured RTD value linearized as NI1000 DIN43760 sensor in °Celsius

-999.990: Temperature is lower than 50°C

+999.990: Temperature is higher than 130°C

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

RTD INPUTS PT100 KELVIN

GET RTD INPUTS AS PT100 KELVIN	ASCII READ COMMAND	#GRTDISPT100K<CR> Result: #GRTDISPT100K:<RTD1Dbl>,<RTD2Dbl>,...,<RTD16Dbl><CR>	ASCII	
	TX	#1,GRTDISPT100K<CR>		
	RX	#1,GRTDISPT100K:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Actual measured RTD input as PT100 on IO1:9999.990°K		

		Actual measured RTD input as PT100 on IO2:9999.990°K		
		Actual measured RTD input as PT100 on IO3:9999.990°K		
		Actual measured RTD input as PT100 on IO4:9999.990°K		
		Actual measured RTD input as PT100 on IO5:9999.990°K		
		Actual measured RTD input as PT100 on IO6:9999.990°K		
		Actual measured RTD input as PT100 on IO7:9999.990°K		
		Actual measured RTD input as PT100 on IO8:9999.990°K		
		Actual measured RTD input as PT100 on IO9:9999.990°K		
		Actual measured RTD input as PT100 on IO10:9999.990°K		
		Actual measured RTD input as PT100 on IO11:9999.990°K		
		Actual measured RTD input as PT100 on IO12:9999.990°K		
		Actual measured RTD input as PT100 on IO13:9999.990°K		
		Actual measured RTD input as PT100 on IO14:9999.990°K		
		Actual measured RTD input as PT100 on IO15:9999.990°K		
		Actual measured RTD input as PT100 on IO16:9999.990°K		

This command shows for RTD INPUT IOs the actual measured RTD value linearized as PT100 sensor in °Kelvin

-999.990: Temperature is lower than 223.15°K

+999.990: Temperature is higher than 403.15°K

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET RTD INPUT AS PT100 KELVIN	ASCII READ COMMAND	#GRTDIPT100K<IONR> <CR> Result: #GRTDIPT100K<IONR>:<IOxDbl> <CR>	ASCII	
	IONR	1		
	TX	#1,GRTDIPT100K1<CR>		
	RX	#1,GRTDIPT100K3:9999.990<CR>		
		Actual measured RTD input as PT100 on IO1:9999.990°K		

This command shows for RTD INPUT IO <IONR> the actual measured RTD value linearized as PT100 sensor in °Kelvin

-999.990: Temperature is lower than 223.15°K

+999.990: Temperature is higher than 403.15°K

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET AVERAGE RTD INPUTS AS PT100 KELVIN	ASCII READ COMMAND	#GAVGRTDISPT100K<CR> Result: #GAVGRTDISPT100K:<RTD1Dbl>,<RTD2Dbl>,...,<RTD16Dbl> <CR>	ASCII	
	TX	#1,GAVGRTDISPT100K<CR>		
	RX	#1,GAVGRTDISPT100K:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Average measured RTD input as PT100 on IO1:9999.990°K		
		Average measured RTD input as PT100 on IO2:9999.990°K		
		Average measured RTD input as PT100 on IO3:9999.990°K		
		Average measured RTD input as PT100 on IO4:9999.990°K		
		Average measured RTD input as PT100 on IO5:9999.990°K		
		Average measured RTD input as PT100 on IO6:9999.990°K		
		Average measured RTD input as PT100 on IO7:9999.990°K		
		Average measured RTD input as PT100 on IO8:9999.990°K		
		Average measured RTD input as PT100 on IO9:9999.990°K		
		Average measured RTD input as PT100 on IO10:9999.990°K		

		Average measured RTD input as PT100 on IO11:9999.990°K		
		Average measured RTD input as PT100 on IO12:9999.990°K		
		Average measured RTD input as PT100 on IO13:9999.990°K		
		Average measured RTD input as PT100 on IO14:9999.990°K		
		Average measured RTD input as PT100 on IO15:9999.990°K		
		Average measured RTD input as PT100 on IO16:9999.990°K		

This command shows for RTD INPUT IOs the average measured RTD value linearized as PT100 sensor in °Kelvin

-999.990: Temperature is lower than 223.15°K

+999.990: Temperature is higher than 403.15°K

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET AVG RTD INPUT AS PT100 KELVIN	ASCII READ COMMAND	#GAVGRTDIPT100K<IONR> <CR> Result: #GAVGRTDIPT100K<IONR>:<IOxDbl> <CR>	ASCII	
	IONR	1		
	TX	#1,GAVGRTDIPT100K1<CR>		
	RX	#1,GAVGRTDIPT100K1:9999.990<CR>		
		Average measured RTD input as PT100 on IO1:9999.990°K		

This command shows for RTD INPUT IO <IONR> the average measured RTD value linearized as PT100 sensor in °Kelvin

-999.990: Temperature is lower than 223.15°K

+999.990: Temperature is higher than 403.15°K

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

RTD INPUTS PT1000 KELVIN

GET RTD INPUTS AS PT1000 KELVIN	ASCII READ COMMAND	#GRTDISPT1000K<CR> Result: #GRTDISPT1000K:<RTD1Dbl>,<RTD2Dbl>,...,<RTD16Dbl> <CR>	ASCII	
	TX	#1,GRTDISPT1000K<CR>		
	RX	#1,GRTDISPT1000K:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Actual measured RTD input as PT1000 on IO1:9999.990°K		
		Actual measured RTD input as PT1000 on IO2:9999.990°K		
		Actual measured RTD input as PT1000 on IO3:9999.990°K		
		Actual measured RTD input as PT1000 on IO4:9999.990°K		
		Actual measured RTD input as PT1000 on IO5:9999.990°K		
		Actual measured RTD input as PT1000 on IO6:9999.990°K		
		Actual measured RTD input as PT1000 on IO7:9999.990°K		
		Actual measured RTD input as PT1000 on IO8:9999.990°K		
		Actual measured RTD input as PT1000 on IO9:9999.990°K		
		Actual measured RTD input as PT1000 on IO10:9999.990°K		
		Actual measured RTD input as PT1000 on IO11:9999.990°K		
		Actual measured RTD input as PT1000 on IO12:9999.990°K		
		Actual measured RTD input as PT1000 on IO13:9999.990°K		
		Actual measured RTD input as PT1000 on IO14:9999.990°K		
		Actual measured RTD input as PT1000 on IO15:9999.990°K		
		Actual measured RTD input as PT1000 on IO16:9999.990°K		

This command shows for RTD INPUT IOs the actual measured RTD value linearized as PT1000 sensor in °Kelvin

-999.990: Temperature is lower than 223.15°K

+999.990: Temperature is higher than 403.15°K

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET RTD INPUT AS PT1000 KELVIN	ASCII READ COMMAND	#GRTDIPT1000K<IONR> <CR> Result: #GRTDIPT1000K<IONR>:<IOxDbl> <CR>	ASCII	
	IONR	1		
	TX	#1,GRTDIPT1000K1<CR>		
	RX	#1,GRTDIPT1000K3:9999.990<CR>		
		Actual measured RTD input as PT1000 on IO1:9999.990°K		

This command shows for RTD INPUT IO <IONR> the actual measured RTD value linearized as PT1000 sensor in °Kelvin

-999.990: Temperature is lower than 223.15°K

+999.990: Temperature is higher than 403.15°K

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET AVERAGE RTD INPUTS AS PT1000 KELVIN	ASCII READ COMMAND	#GAVGRTDISPT1000K<CR> Result: #GAVGRTDISPT1000K:<RTD1Dbl>,<RTD2Dbl>,...,<RTD16Dbl> <CR>	ASCII	
	TX	#1,GAVGRTDISPT1000K<CR>		
	RX	#1,GAVGRTDISPT1000K:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Average measured RTD input as PT1000 on IO1:9999.990°K		
		Average measured RTD input as PT1000 on IO2:9999.990°K		
		Average measured RTD input as PT1000 on IO3:9999.990°K		
		Average measured RTD input as PT1000 on IO4:9999.990°K		
		Average measured RTD input as PT1000 on IO5:9999.990°K		
		Average measured RTD input as PT1000 on IO6:9999.990°K		
		Average measured RTD input as PT1000 on IO7:9999.990°K		
		Average measured RTD input as PT1000 on IO8:9999.990°K		
		Average measured RTD input as PT1000 on IO9:9999.990°K		
		Average measured RTD input as PT1000 on IO10:9999.990°K		
		Average measured RTD input as PT1000 on IO11:9999.990°K		
		Average measured RTD input as PT1000 on IO12:9999.990°K		
		Average measured RTD input as PT1000 on IO13:9999.990°K		
		Average measured RTD input as PT1000 on IO14:9999.990°K		
		Average measured RTD input as PT1000 on IO15:9999.990°K		
		Average measured RTD input as PT1000 on IO16:9999.990°K		

This command shows for RTD INPUT IOs the average measured RTD value linearized as PT1000 sensor in °Kelvin

-999.990: Temperature is lower than 223.15°K

+999.990: Temperature is higher than 403.15°K

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET AVG RTD INPUT AS PT1000 KELVIN	ASCII READ COMMAND	#GAVGRTDIPT1000K<IONR> <CR> Result: #GAVGRTDIPT1000K<IONR>:<IOxDbl> <CR>	ASCII	
	IONR	1		
	TX	#1,GAVGRTDIPT1000K1<CR>		

	RX	#1,GAVGRTDIPT1000K1:9999.990<CR>		
		Average measured RTD input as PT1000 on IO1:9999.990°K		
This command shows for RTD INPUT IO <IONR> the average measured RTD value linearized as PT1000 sensor in °Kelvin -999.990: Temperature is lower than 223.15°K +999.990: Temperature is higher than 403.15°K All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.				
RTD INPUTS NI1000-DIN43760 KELVIN				
GET RTD INPUTS AS NI1000 DIN43760 KELVIN	ASCII READ COMMAND	#GRTDISNI1000DIN43760K<CR> Result: #GRTDISNI1000DIN43760K:<RTD1Dbl>,<RTD2Dbl>,...,<RTD16Dbl><CR>	ASCII	
	TX	#1,GRTDISNI1000DIN43760K<CR>		
	RX	#1,GRTDISNI1000DIN43760K:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Actual measured RTD input as NI1000-DIN43760 on IO1:9999.990°K		
		Actual measured RTD input as NI1000-DIN43760 on IO2:9999.990°K		
		Actual measured RTD input as NI1000-DIN43760 on IO3:9999.990°K		
		Actual measured RTD input as NI1000-DIN43760 on IO4:9999.990°K		
		Actual measured RTD input as NI1000-DIN43760 on IO5:9999.990°K		
		Actual measured RTD input as NI1000-DIN43760 on IO6:9999.990°K		
		Actual measured RTD input as NI1000-DIN43760 on IO7:9999.990°K		
		Actual measured RTD input as NI1000-DIN43760 on IO8:9999.990°K		
		Actual measured RTD input as NI1000-DIN43760 on IO9:9999.990°K		
		Actual measured RTD input as NI1000-DIN43760 on IO10:9999.990°K		
		Actual measured RTD input as NI1000-DIN43760 on IO11:9999.990°K		
		Actual measured RTD input as NI1000-DIN43760 on IO12:9999.990°K		
		Actual measured RTD input as NI1000-DIN43760 on IO13:9999.990°K		
		Actual measured RTD input as NI1000-DIN43760 on IO14:9999.990°K		
		Actual measured RTD input as NI1000-DIN43760 on IO15:9999.990°K		
		Actual measured RTD input as NI1000-DIN43760 on IO16:9999.990°K		
This command shows for RTD INPUT IOs the actual measured RTD value linearized as NI1000 DIN43760 sensor in °Kelvin -999.990: Temperature is lower than 223.15°K +999.990: Temperature is higher than 403.15°K All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.				
GET RTD INPUT AS NI1000 DIN43760 KELVIN	ASCII READ COMMAND	#GRTDINI1000DIN43760K<IONR><CR> Result: #GRTDINI1000DIN43760K<IONR>:<IOxDbl><CR>	ASCII	
	IONR	1		
	TX	#1,GRTDINI1000DIN43760K1<CR>		
	RX	#1,GRTDINI1000DIN43760K3:9999.990<CR>		
		Actual measured RTD input as NI1000-DIN43760 on IO1:9999.990°K		
This command shows for RTD INPUT IO <IONR> the actual measured RTD value linearized as NI1000 DIN43760 sensor in °Kelvin -999.990: Temperature is lower than 223.15°K +999.990: Temperature is higher than 403.15°K All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.				

GET AVERAGE RTD INPUTS AS NI1000 DIN43760 KELVIN	ASCII READ COMMAND	#GAVGRTDISNI1000DIN43760K<CR> Result: #GAVGRTDISNI1000DIN43760K:<RTD1DbI>,<RTD2DbI>,...,<RTD16DbI><CR>	ASCII	
	TX	#1,GAVGRTDISNI1000DIN43760K<CR>		
	RX	#1,GAVGRTDISNI1000DIN43760K:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Average measured RTD input as NI1000-DIN43760 on IO1:9999.990°K		
		Average measured RTD input as NI1000-DIN43760 on IO2:9999.990°K		
		Average measured RTD input as NI1000-DIN43760 on IO3:9999.990°K		
		Average measured RTD input as NI1000-DIN43760 on IO4:9999.990°K		
		Average measured RTD input as NI1000-DIN43760 on IO5:9999.990°K		
		Average measured RTD input as NI1000-DIN43760 on IO6:9999.990°K		
		Average measured RTD input as NI1000-DIN43760 on IO7:9999.990°K		
		Average measured RTD input as NI1000-DIN43760 on IO8:9999.990°K		
		Average measured RTD input as NI1000-DIN43760 on IO9:9999.990°K		
		Average measured RTD input as NI1000-DIN43760 on IO10:9999.990°K		
		Average measured RTD input as NI1000-DIN43760 on IO11:9999.990°K		
		Average measured RTD input as NI1000-DIN43760 on IO12:9999.990°K		
		Average measured RTD input as NI1000-DIN43760 on IO13:9999.990°K		
		Average measured RTD input as NI1000-DIN43760 on IO14:9999.990°K		
		Average measured RTD input as NI1000-DIN43760 on IO15:9999.990°K		
		Average measured RTD input as NI1000-DIN43760 on IO16:9999.990°K		

This command shows for RTD INPUT IOs the average measured RTD value linearized as NI1000 DIN43760 sensor in °Kelvin

-999.990: Temperature is lower than 223.15°K

+999.990: Temperature is higher than 403.15°K

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET AVG RTD INPUT AS NI1000 DIN43760 KELVIN	ASCII READ COMMAND	#GAVGRTDINI1000DIN43760K<IONR><CR> Result: #GAVGRTDINI1000DIN43760K<IONR>:<IOxDbI><CR>	ASCII	
	IONR	1		
	TX	#1,GAVGRTDINI1000DIN43760K1<CR>		
	RX	#1,GAVGRTDINI1000DIN43760K1:9999.990<CR>		
		Average measured RTD input as NI1000-DIN43760 on IO1:9999.990°K		

This command shows for RTD INPUT IO <IONR> the average measured RTD value linearized as NI1000 DIN43760 sensor in °Kelvin

-999.990: Temperature is lower than 223.15°K

+999.990: Temperature is higher than 403.15°K

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

RTD INPUTS PT100 FAHRENHEIT

GET RTD INPUTS AS PT100 FAHRENHEIT	ASCII READ COMMAND	#GRTDISPT100F<CR> Result: #GRTDISPT100F:<RTD1DbI>,<RTD2DbI>,...,<RTD16DbI><CR>	ASCII	
	TX	#1,GRTDISPT100F<CR>		
	RX	#1,GRTDISPT100F:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Actual measured RTD input as PT100 on IO1:9999.990°F		
		Actual measured RTD input as PT100 on IO2:9999.990°F		

		Actual measured RTD input as PT100 on IO3:9999.990°F		
		Actual measured RTD input as PT100 on IO4:9999.990°F		
		Actual measured RTD input as PT100 on IO5:9999.990°F		
		Actual measured RTD input as PT100 on IO6:9999.990°F		
		Actual measured RTD input as PT100 on IO7:9999.990°F		
		Actual measured RTD input as PT100 on IO8:9999.990°F		
		Actual measured RTD input as PT100 on IO9:9999.990°F		
		Actual measured RTD input as PT100 on IO10:9999.990°F		
		Actual measured RTD input as PT100 on IO11:9999.990°F		
		Actual measured RTD input as PT100 on IO12:9999.990°F		
		Actual measured RTD input as PT100 on IO13:9999.990°F		
		Actual measured RTD input as PT100 on IO14:9999.990°F		
		Actual measured RTD input as PT100 on IO15:9999.990°F		
		Actual measured RTD input as PT100 on IO16:9999.990°F		

This command shows for RTD INPUT IOs the actual measured RTD value linearized as PT100 sensor in °Fahrenheit

-999.990: Temperature is lower than -58°F

+999.990: Temperature is higher than 266°F

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET RTD INPUT AS PT100 FAHRENHEIT	ASCII READ COMMAND	#GRTDIPT100F<IONR> <CR> Result: #GRTDIPT100F<IONR>:<IOxDbl> <CR>	ASCII	
	IONR	1		
	TX	#1,GRTDIPT100F1<CR>		
	RX	#1,GRTDIPT100F3:9999.990<CR>		
		Actual measured RTD input as PT100 on IO1:9999.990°F		

This command shows for RTD INPUT IO <IONR> the actual measured RTD value linearized as PT100 sensor in °Fahrenheit

-999.990: Temperature is lower than -58°F

+999.990: Temperature is higher than 266°F

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET AVERAGE RTD INPUTS AS PT100 FAHRENHEIT	ASCII READ COMMAND	#GAVGRTDISPT100F<CR> Result: #GAVGRTDISPT100F:<RTD1Dbl>,<RTD2Dbl>,...,<RTD16Dbl> <CR>	ASCII	
	TX	#1,GAVGRTDISPT100F<CR>		
	RX	#1,GAVGRTDISPT100F:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Average measured RTD input as PT100 on IO1:9999.990°F		
		Average measured RTD input as PT100 on IO2:9999.990°F		
		Average measured RTD input as PT100 on IO3:9999.990°F		
		Average measured RTD input as PT100 on IO4:9999.990°F		
		Average measured RTD input as PT100 on IO5:9999.990°F		
		Average measured RTD input as PT100 on IO6:9999.990°F		
		Average measured RTD input as PT100 on IO7:9999.990°F		
		Average measured RTD input as PT100 on IO8:9999.990°F		
		Average measured RTD input as PT100 on IO9:9999.990°F		
		Average measured RTD input as PT100 on IO10:9999.990°F		

		Average measured RTD input as PT100 on IO11:9999.990°F		
		Average measured RTD input as PT100 on IO12:9999.990°F		
		Average measured RTD input as PT100 on IO13:9999.990°F		
		Average measured RTD input as PT100 on IO14:9999.990°F		
		Average measured RTD input as PT100 on IO15:9999.990°F		
		Average measured RTD input as PT100 on IO16:9999.990°F		

This command shows for RTD INPUT IOs the average measured RTD value linearized as PT100 sensor in °Fahrenheit

-999.990: Temperature is lower than -58°F

+999.990: Temperature is higher than 266°F

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET AVG RTD INPUT AS PT100 FAHRENHEIT	ASCII READ COMMAND	#GAVGRTDIPT100F<IONR><CR> Result: #GAVGRTDIPT100F<IONR>:<IOxDbl><CR>	ASCII	
	IONR	1		
	TX	#1,GAVGRTDIPT100F1<CR>		
	RX	#1,GAVGRTDIPT100F1:9999.990<CR>		
		Average measured RTD input as PT100 on IO1:9999.990°F		

This command shows for RTD INPUT IO <IONR> the average measured RTD value linearized as PT100 sensor in °Fahrenheit

-999.990: Temperature is lower than -58°F

+999.990: Temperature is higher than 266°F

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

RTD INPUTS PT1000 FAHRENHEIT

GET RTD INPUTS AS PT1000 FAHRENHEIT	ASCII READ COMMAND	#GRTDISPT1000F<CR> Result: #GRTDISPT1000F:<RTD1Dbl>,<RTD2Dbl>,...,<RTD16Dbl><CR>	ASCII	
	TX	#1,GRTDISPT1000F<CR>		
	RX	#1,GRTDISPT1000F:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Actual measured RTD input as PT1000 on IO1:9999.990°F		
		Actual measured RTD input as PT1000 on IO2:9999.990°F		
		Actual measured RTD input as PT1000 on IO3:9999.990°F		
		Actual measured RTD input as PT1000 on IO4:9999.990°F		
		Actual measured RTD input as PT1000 on IO5:9999.990°F		
		Actual measured RTD input as PT1000 on IO6:9999.990°F		
		Actual measured RTD input as PT1000 on IO7:9999.990°F		
		Actual measured RTD input as PT1000 on IO8:9999.990°F		
		Actual measured RTD input as PT1000 on IO9:9999.990°F		
		Actual measured RTD input as PT1000 on IO10:9999.990°F		
		Actual measured RTD input as PT1000 on IO11:9999.990°F		
		Actual measured RTD input as PT1000 on IO12:9999.990°F		
		Actual measured RTD input as PT1000 on IO13:9999.990°F		
		Actual measured RTD input as PT1000 on IO14:9999.990°F		
		Actual measured RTD input as PT1000 on IO15:9999.990°F		
		Actual measured RTD input as PT1000 on IO16:9999.990°F		

This command shows for RTD INPUT IOs the actual measured RTD value linearized as PT1000 sensor in °Fahrenheit

-999.990: Temperature is lower than -58°F

+999.990: Temperature is higher than 266°F

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET RTD INPUT AS PT1000 FAHRENHEIT	ASCII READ COMMAND	#GRTDIPT1000F<IONR> <CR> Result: #GRTDIPT1000F<IONR>:<IOxDbl> <CR>	ASCII	
	IONR	1		
	TX	#1,GRTDIPT1000F1<CR>		
	RX	#1,GRTDIPT1000F3:9999.990<CR>		
		Actual measured RTD input as PT1000 on IO1:9999.990°F		

This command shows for RTD INPUT IO <IONR> the actual measured RTD value linearized as PT1000 sensor in °Fahrenheit

-999.990: Temperature is lower than -58°F

+999.990: Temperature is higher than 266°F

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET AVERAGE RTD INPUTS AS PT1000 FAHRENHEIT	ASCII READ COMMAND	#GAVGRTDISPT1000F<CR> Result: #GAVGRTDISPT1000F:<RTD1Dbl>,<RTD2Dbl>,...,<RTD16Dbl> <CR>	ASCII	
	TX	#1,GAVGRTDISPT1000F<CR>		
	RX	#1,GAVGRTDISPT1000F:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Average measured RTD input as PT1000 on IO1:9999.990°F		
		Average measured RTD input as PT1000 on IO2:9999.990°F		
		Average measured RTD input as PT1000 on IO3:9999.990°F		
		Average measured RTD input as PT1000 on IO4:9999.990°F		
		Average measured RTD input as PT1000 on IO5:9999.990°F		
		Average measured RTD input as PT1000 on IO6:9999.990°F		
		Average measured RTD input as PT1000 on IO7:9999.990°F		
		Average measured RTD input as PT1000 on IO8:9999.990°F		
		Average measured RTD input as PT1000 on IO9:9999.990°F		
		Average measured RTD input as PT1000 on IO10:9999.990°F		
		Average measured RTD input as PT1000 on IO11:9999.990°F		
		Average measured RTD input as PT1000 on IO12:9999.990°F		
		Average measured RTD input as PT1000 on IO13:9999.990°F		
		Average measured RTD input as PT1000 on IO14:9999.990°F		
		Average measured RTD input as PT1000 on IO15:9999.990°F		
		Average measured RTD input as PT1000 on IO16:9999.990°F		

This command shows for RTD INPUT IOs the average measured RTD value linearized as PT1000 sensor in °Fahrenheit

-999.990: Temperature is lower than -58°F

+999.990: Temperature is higher than 266°F

All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.

GET AVG RTD INPUT AS PT1000 FAHRENHEIT	ASCII READ COMMAND	#GAVGRTDIPT1000F<IONR> <CR> Result: #GAVGRTDIPT1000F<IONR>:<IOxDbl> <CR>	ASCII	
	IONR	1		
	TX	#1,GAVGRTDIPT1000F1<CR>		

	RX	#1,GAVGRTDIPT1000F1:9999.990<CR>		
		Average measured RTD input as PT1000 on IO1:9999.990°F		
This command shows for RTD INPUT IO <IONR> the average measured RTD value linearized as PT1000 sensor in °Fahrenheit -999.990: Temperature is lower than -58°F +999.990: Temperature is higher than 266°F All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.				
RTD INPUTS NI1000-DIN43760 FAHRENHEIT				
GET RTD INPUTS AS NI1000 DIN43760 FAHRENHEIT	ASCII READ COMMAND	#GRTDISNI1000DIN43760F<CR> Result: #GRTDISNI1000DIN43760F:<RTD1Dbl>,<RTD2Dbl>,...,<RTD16Dbl><CR>	ASCII	
	TX	#1,GRTDISNI1000DIN43760F<CR>		
	RX	#1,GRTDISNI1000DIN43760F:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Actual measured RTD input as NI1000-DIN43760 on IO1:9999.990°F		
		Actual measured RTD input as NI1000-DIN43760 on IO2:9999.990°F		
		Actual measured RTD input as NI1000-DIN43760 on IO3:9999.990°F		
		Actual measured RTD input as NI1000-DIN43760 on IO4:9999.990°F		
		Actual measured RTD input as NI1000-DIN43760 on IO5:9999.990°F		
		Actual measured RTD input as NI1000-DIN43760 on IO6:9999.990°F		
		Actual measured RTD input as NI1000-DIN43760 on IO7:9999.990°F		
		Actual measured RTD input as NI1000-DIN43760 on IO8:9999.990°F		
		Actual measured RTD input as NI1000-DIN43760 on IO9:9999.990°F		
		Actual measured RTD input as NI1000-DIN43760 on IO10:9999.990°F		
		Actual measured RTD input as NI1000-DIN43760 on IO11:9999.990°F		
		Actual measured RTD input as NI1000-DIN43760 on IO12:9999.990°F		
		Actual measured RTD input as NI1000-DIN43760 on IO13:9999.990°F		
		Actual measured RTD input as NI1000-DIN43760 on IO14:9999.990°F		
		Actual measured RTD input as NI1000-DIN43760 on IO15:9999.990°F		
		Actual measured RTD input as NI1000-DIN43760 on IO16:9999.990°F		
This command shows for RTD INPUT IOs the actual measured RTD value linearized as NI1000 DIN43760 sensor in °Fahrenheit -999.990: Temperature is lower than -58°F +999.990: Temperature is higher than 266°F All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.				
GET RTD INPUT AS NI1000 DIN43760 FARENEHEIT	ASCII READ COMMAND	#GRTDINI1000DIN43760F<IONR><CR> Result: #GRTDINI1000DIN43760F<IONR>:<IOxDbl><CR>	ASCII	
	IONR	1		
	TX	#1,GRTDINI1000DIN43760F1<CR>		
	RX	#1,GRTDINI1000DIN43760F3:9999.990<CR>		
		Actual measured RTD input as NI1000-DIN43760 on IO1:9999.990°F		
This command shows for RTD INPUT IO <IONR> the actual measured RTD value linearized as NI1000 DIN43760 sensor in °Fahrenheit -999.990: Temperature is lower than -58°F +999.990: Temperature is higher than 266°F All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.				

GET AVERAGE RTD INPUTS AS NI1000 DIN43760 FARENEHEIT	ASCII READ COMMAND	#GAVGRTDISNI1000DIN43760F<CR> Result: #GAVGRTDISNI1000DIN43760F:<RTD1DbI>,<RTD2DbI>,...,<RTD16DbI><CR>	ASCII	
	TX	#1,GAVGRTDISNI1000DIN43760F<CR>		
	RX	#1,GAVGRTDISNI1000DIN43760F:9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990,9999.990<CR>		
		Average measured RTD input as NI1000-DIN43760 on IO1:9999.990°F		
		Average measured RTD input as NI1000-DIN43760 on IO2:9999.990°F		
		Average measured RTD input as NI1000-DIN43760 on IO3:9999.990°F		
		Average measured RTD input as NI1000-DIN43760 on IO4:9999.990°F		
		Average measured RTD input as NI1000-DIN43760 on IO5:9999.990°F		
		Average measured RTD input as NI1000-DIN43760 on IO6:9999.990°F		
		Average measured RTD input as NI1000-DIN43760 on IO7:9999.990°F		
		Average measured RTD input as NI1000-DIN43760 on IO8:9999.990°F		
		Average measured RTD input as NI1000-DIN43760 on IO9:9999.990°F		
		Average measured RTD input as NI1000-DIN43760 on IO10:9999.990°F		
		Average measured RTD input as NI1000-DIN43760 on IO11:9999.990°F		
		Average measured RTD input as NI1000-DIN43760 on IO12:9999.990°F		
		Average measured RTD input as NI1000-DIN43760 on IO13:9999.990°F		
		Average measured RTD input as NI1000-DIN43760 on IO14:9999.990°F		
		Average measured RTD input as NI1000-DIN43760 on IO15:9999.990°F		
		Average measured RTD input as NI1000-DIN43760 on IO16:9999.990°F		
This command shows for RTD INPUT IOs the average measured RTD value linearized as NI1000 DIN43760 sensor in °Fahrenheit -999.990: Temperature is lower than -58°F +999.990: Temperature is higher than 266°F All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.				
GET AVG RTD INPUT AS NI1000 DIN43760 FARENEHEIT	ASCII READ COMMAND	#GAVGRTDINI1000DIN43760F<IONR><CR> Result: #GAVGRTDINI1000DIN43760F<IONR>:<IOxDbI><CR>	ASCII	
	IONR	1		
	TX	#1,GAVGRTDINI1000DIN43760F1<CR>		
	RX	#1,GAVGRTDINI1000DIN43760F1:9999.990<CR>		
		Average measured RTD input as NI1000-DIN43760 on IO1:9999.990°F		
This command shows for RTD INPUT IO <IONR> the average measured RTD value linearized as NI1000 DIN43760 sensor in °Fahrenheit -999.990: Temperature is lower than -58°F +999.990: Temperature is higher than 266°F All IOs with a different usage type will return 9999.990 to indicate, that no measurement is done.				

Register NAME Command NAME	MODBUS Register ASCII Command	Register VALUE ASCII Command	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
ASCII COMMANDS						
INTER PROCESSOR COMMUNICATION						
AIOX IS ONLINE	ASCII READ COMMAND	#G16AIOXISONLINE<CR> Result: #G16AIOXISONLINE:<YesNo><CR>			ASCII	
	TX	#1,G16AIOXISONLINE<CR>				
	RX	#1,G16AIOXISONLINE:YES<CR>				
		Actual communication state co-processor to AIOX processor:YES				
This command returns the actual state of the serial communication between the ARM co-processor and the additional processor for the AIOX. YES: Currently the communication is fine NO: There is a mayor problem/hardware fault between the two processors						
CHIP COMMUNICATION						
ARE CHIPS ONLINE	ASCII READ COMMAND	#ARECHIPSONLINE<CR> Result: #ARECHIPSONLINE:<Chip1IsOnline>,<Chip2IsOnline>,<Chip3IsOnline>,<Chip4IsOnline><CR>			ASCII	
	TX	#1,ARECHIPSONLINE<CR>				
	RX	#1,ARECHIPSONLINE:1,1,1,1<CR>				
		Actual state of CHIP1:1				
		Actual state of CHIP2:1				
		Actual state of CHIP3:1				
		Actual state of CHIP4:1				
This command shows the current SPI communication status with each chip. ChipxIsOnline: =0: Currently there is a SPI error in the communication and the chip is offline =1: The SPI communication with the chip is ok						
IS CHIPx ONLINE	ASCII READ COMMAND	#ISCHIPONLINE<CHIPNR><CR> Result: #ISCHIPONLINE<CHIPNR>:<ChipxIsOnline><CR>			ASCII	
	CHIPNR	1				
	TX	#1,ISCHIPONLINE1<CR>				
	RX	#1,ISCHIPONLINE1:1<CR>				
		Actual state of CHIP1:1				
This command shows the current SPI communication status with chip <CHIPNR>. =0: Currently there is a SPI error in the communication and the chip is offline =1: The SPI communication with the chip is ok						
GET ALL SPI ERRORS	ASCII READ COMMAND	#GASPIERRS<CR> Result: #GASPIERRS:<SPI1ErrDec>,<SPI2ErrDec>,<SPI3ErrDec>,<SPI4ErrDec>,<SPI1ErrHex>,<SPI2ErrHex>,<SPI3ErrHex>,<SPI4ErrHex><CR>			ASCII	
	TX	#1,GASPIERRS<CR>				

	RX	#1,GASPIERRS:0,0,0,0,0x0,0x0,0x0,0x0<CR>		
		Actual SPI errors of CHIP1:0		
		Actual SPI errors of CHIP2:0		
		Actual SPI errors of CHIP3:0		
		Actual SPI errors of CHIP4:0		
This command shows the acutal SPI errors since power up for every chip				
GET SPI ERROR	ASCII READ COMMAND	#GSPERR<CHIPNR> <CR> Result: #GSPERR<CHIPNR>:<SPiErrDec>,<SPiErrHex> <CR>	ASCII	
	CHIPNR	1		
	TX	#1,GSPERR1<CR>		
	RX	#1,GSPERR1:0,0x0<CR>		
		Actual SPI errors of CHIP1:0		
This command shows the acutal SPI errors since power up for chip <CHIPNR>				
GET CHIP STATEMACHINES	ASCII READ COMMAND	#GCHIPSMS<CR> Result: #GCHIPSMS:<Chip1StateMachine>,<Chip2StateMachine>, <Chip3StateMachine>,<Chip4StateMachine> <CR>	ASCII	
	TX	#1,GCHIPSMS<CR>		
	RX	#1,GCHIPSMS:12090,12090,12070,12070<CR>		
		Actual state of CHIP1:12090		
		Actual state of CHIP2:12090		
		Actual state of CHIP3:12070		
		Actual state of CHIP4:12070		
This command shows the acutal state of the internal communication state machine for all chips				
GET CHIP STATEMACHINE	ASCII READ COMMAND	#GCHIPSM<CHIPNR> <CR> Result: #GCHIPSM<CHIPNR>:<ChipxStateMachine> <CR>	ASCII	
	CHIPNR	1		
	TX	#1,GCHIPSM1<CR>		
	RX	#1,GCHIPSM1:12010<CR>		
		Actual state of CHIP1:12010		
This command shows the acutal state of the internal communication state machine for chip <CHIPNR>				
RESET CHIP STATEMACHINE	ASCII WRITE COMMAND	#RCHIPSM<CHIPNR> <CR> Result: #OK<CR>	ASCII	YES
	CHIPNR	1		
	TX	#1,RCHIPSM1<CR>		
	RX	N/A		
This command restarts the state machine for chip <CHIPNR>. The affected chip will be resetted & initialized completely				
CHIP STATUS				

GET ALL LIVE STATES	ASCII READ COMMAND	#GALSTATES<CR> Result: #GALSTATE:<Chip1LiveStateDec>,<Chip2LiveStateDec>, <Chip3LiveStateDec>,<Chip4LiveStateDec>, <Chip1LiveStateHex>,<Chip2LiveStateHex>, <Chip3LiveStateHex>,<Chip4LiveStateHex><CR>	ASCII	
	TX	#1,GALSTATES<CR>		
	RX	#1,GALSTATES:27648,30720,29696,29696,0x6C00,0x7800,0x7400,0x7400<CR>		
		Actual live state of CHIP1:27648,0x6C00		
		Actual live state of CHIP2:30720,0x7800		
		Actual live state of CHIP3:29696,0x7400		
		Actual live state of CHIP4:29696,0x7400		

Returns the actual chip status of all chips.

Each result bit stands for a different state:

Bit 0: VI_ERR_CURR_A: Status of channel A:Voltage or current error detected on Channel A. This bit is interpreted differently depending on which of the following IO function selected:

Voltage output: short-circuit error. The error condition is debounced for 2 ms before the status bit is set.

Current output: open circuit error. The error condition is debounced for 2 ms before the status bit is set.

Current input, loop powered: short-circuit error. A short to ground is detected

Current input, externally powered: short-circuit error. A current source >25 mA is detected

Bit 1: VI_ERR_CURR_B: Status of voltage input B. Same like VI_ERR_CURR_A

Bit 2: VI_ERR_CURR_C: Status of voltage input C. Same like VI_ERR_CURR_A

Bit 3: VI_ERR_CURR_D: Status of voltage input D. Same like VI_ERR_CURR_A

Bit 4: HI_TEMP_STATUS: If the die temperature is typically at or above 115°C, the HI_TEMP_STATUS bit is asserted

Bit 5: CHARGE_PUMP_STATUS: Charge pump error detected.

Bit 6: ALDO5V_STATUS: ALDO5V Power Supply Monitor Error. This bit is asserted when the ALDO5V pin falls below 4.05 V. Usually ~5V.

Bit 7: AVDD_STATUS: AVDD Power Supply Monitor Error. This bit is asserted when the AVDD pin falls below 9.26 V. Usually ~17V.

Bit 8: DVCC_STATUS: DVCC Power Supply Monitor Error. This bit is asserted when the DVCC pin falls below 1.93 V. Usually ~3.3V.

Bit 9: ALDO1V8_STATUS: ALDO1V8 Power Supply Monitor Error. This bit is asserted when the ALDO1V8 pin falls below 1.35 V. Usually ~1.8V.

Bit 10-12: ADC_CH_CURR: Current converted channel of the ADC (0:A, 1:B, 2:C, 3:D, 4:Diagnostic 0, 5:Diagnostic 1, 6:Diagnostic 2, 7:Diagnostic 3)

Bit 13: ADC_BUSY: ADC busy status bit.

Bit 14: ADC_DATA_RDY:ADC data ready. The ADC_DATA_RDY bit asserts when a conversion cycle has completed. The bit stays asserted until a user writes 1 to clear the bit. In single conversion mode, the ADC_RDY pin follows the ADC_DATA_RDY bit and only deasserts when the ADC_DATA_RDY bit is cleared. In continuous conversion mode, the ADC_RDY pin returns high after 24 µs.

Bit 15: RESERVED: Reserved

GET LIVE STATE	ASCII READ COMMAND	#GLSTATE<CHIPNR><CR> Result: #GLSTATE<CHIPNR>:<ChipxLiveStateDec>,<ChipxLiveStateHex><CR>	ASCII	
	CHIPNR	1		
	TX	#1,GLSTATE1<CR>		
	RX	#1,GLSTATE4:29696,0x7400<CR>		
		Actual live state of CHIP1:29696,0x7400		
		Live state bit 0: VI_ERR_CURR_A:0		
		Live state bit 1: VI_ERR_CURR_B:0		
		Live state bit 2: VI_ERR_CURR_C:0		
		Live state bit 3: VI_ERR_CURR_D:0		
		Live state bit 4: HI_TEMP_STATUS:0		
		Live state bit 5: CHARGE_PUMP_STATUS:0		
		Live state bit 6: ALDO5V_STATUS:0		

		Live state bit 7: AVDD_STATUS:0		
		Live state bit 8: DVCC_STATUS:0		
		Live state bit 9: ALDO1V8_STATUS:0		
		Live state bit 10-12: ADC_CH_CURR:5		
		Live state bit 13: ADC_BUSY:1		
		Live state bit 14: ADC_DATA_RDY:0		
		Live state bit 15: RESERVED:0		

Returns the actual chip status of chip <CHIPNR>
Each result bit stands for a different state:
Bit 0: VI_ERR_CURR_A: Status of channel A:Voltage or current error detected on Channel A. This bit is interpreted differently depending on which of the following IO function selected:
Voltage output: short-circuit error. The error condition is debounced for 2 ms before the status bit is set.
Current output: open circuit error. The error condition is debounced for 2 ms before the status bit is set.
Current input, loop powered: short-circuit error. A short to ground is detected
Current input, externally powered: short-circuit error. A current source >25 mA is detected
Bit 1: VI_ERR_CURR_B: Status of voltage input B. Same like VI_ERR_CURR_A
Bit 2: VI_ERR_CURR_C: Status of voltage input C. Same like VI_ERR_CURR_A
Bit 3: VI_ERR_CURR_D: Status of voltage input D. Same like VI_ERR_CURR_A
Bit 4: HI_TEMP_STATUS: If the die temperature is typically at or above 115°C, the HI_TEMP_STATUS bit is asserted
Bit 5: CHARGE_PUMP_STATUS: Charge pump error detected.
Bit 6: ALDO5V_STATUS: ALDO5V Power Supply Monitor Error. This bit is asserted when the ALDO5V pin falls below 4.05 V. Usually ~5V.
Bit 7: AVDD_STATUS: AVDD Power Supply Monitor Error. This bit is asserted when the AVDD pin falls below 9.26 V. Usually ~17V.
Bit 8: DVCC_STATUS: DVCC Power Supply Monitor Error. This bit is asserted when the DVCC pin falls below 1.93 V. Usually ~3.3V.
Bit 9: ALDO1V8_STATUS: ALDO1V8 Power Supply Monitor Error. This bit is asserted when the ALDO1V8 pin falls below 1.35 V. Usually ~1.8V.
Bit 10-12: ADC_CH_CURR: Current converted channel of the ADC (0:A, 1:B, 2:C, 3:D, 4:Diagnostic 0, 5:Diagnostic 1, 6:Diagnostic 2, 7:Diagnostic 3)
Bit 13: ADC_BUSY: ADC busy status bit.
Bit 14: ADC_DATA_RDY:ADC data ready. The ADC_DATA_RDY bit asserts when a conversion cycle has completed. The bit stays asserted until a user writes 1 to clear the bit. In single conversion mode, the ADC_RDY pin follows the ADC_DATA_RDY bit and only deasserts when the ADC_DATA_RDY bit is cleared. In continuous conversion mode, the ADC_RDY pin returns high after 24 µs.
Bit 15: RESERVED: Reserved

GET ALL ALERT STATES	ASCII READ COMMAND	#GAASTATES<CR> Result: #GAASTATES:<Chip1AlertStateDec>,<Chip2AlertStateDec>, <Chip3AlertStateDec>,<Chip4AlertStateDec>, <Chip1AlertStateHex>,<Chip2AlertStateHex>, <Chip3AlertStateHex>,<Chip4AlertStateHex><CR>	ASCII	
	TX	#1,GAASTATES<CR>		
	RX	#1,GAASTATES:33792,33792,33792,33792,0x8400,0x8400,0x8400,0x8400<CR>		
		Actual alert state of CHIP1:33792,0x8400		
		Actual alert state of CHIP2:33792,0x8400		
		Actual alert state of CHIP3:33792,0x8400		
		Actual alert state of CHIP4:33792,0x8400		

Returns the actual alert states for all chips.
Each result bit stands for a different state:
Bit 0: VI_ERR_CURR_A: Status of channel A:Voltage or current error detected on Channel A. This bit is interpreted differently depending on which of the following IO function selected:
Voltage output: short-circuit error. The error condition is debounced for 2 ms before the status bit is set.
Current output: open circuit error. The error condition is debounced for 2 ms before the status bit is set.
Current input, loop powered: short-circuit error. A short to ground is detected
Current input, externally powered: short-circuit error. A current source >25 mA is detected
Bit 1: VI_ERR_CURR_B: Status of voltage input B. Same like VI_ERR_CURR_A
Bit 2: VI_ERR_CURR_C: Status of voltage input C. Same like VI_ERR_CURR_A
Bit 3: VI_ERR_CURR_D: Status of voltage input D. Same like VI_ERR_CURR_A
Bit 4: HI_TEMP_STATUS: If the die temperature is typically at or above 115°C, the HI_TEMP_STATUS bit is asserted
Bit 5: CHARGE_PUMP_STATUS: Charge pump error detected.
Bit 6: ALDO5V_STATUS: ALDO5V Power Supply Monitor Error. This bit is asserted when the ALDO5V pin falls below 4.05 V. Usually ~5V.
Bit 7: AVDD_STATUS: AVDD Power Supply Monitor Error. This bit is asserted when the AVDD pin falls below 9.26 V. Usually ~17V.
Bit 8: DVCC_STATUS: DVCC Power Supply Monitor Error. This bit is asserted when the DVCC pin falls below 1.93 V. Usually ~3.3V.
Bit 9: ALDO1V8_STATUS: ALDO1V8 Power Supply Monitor Error. This bit is asserted when the ALDO1V8 pin falls below 1.35 V. Usually ~1.8V.
Bit 10: ADC_CONV_ERR: ADC Conversion Error. ADC results may be outside the selected measurement range.
Bit 11: ADC_SAT_ERR: ADC Saturation Error. ADC may be outside the user selected measurement range.
Bit 12: SPI_SCLK_CNT_ERR: SPI SCLK count error detected. This bit is asserted if an SPI command is applied but 32 SCLKs are not provided.
Bit 13: SPI_CRC_ERR: SPI CRC error detected. This bit is asserted if an invalid CRC is received.
Bit 14: CAL_MEM_ERR: Calibration Memory Error. This flag asserts under the following two conditions: When a calibration memory CRC error or an uncorrectable error correcting code (ECC) error is detected on the calibration memory upload. It is not possible to clear this bit if there is a CRC error or uncorrectable ECC error. It is recommended to reset the device and check the supplies in this situation. When there is an attempted SPI access to a register before the calibration memory refresh is complete. Do not address the device until the calibration memory is refreshed. Writing 1 to this bit clears the flag, if the flag is asserted due to this condition.
Bit 15: RESET_OCCURRED: Reset occurred. This bit is asserted after a reset event, which asserts the ALERT pin after the reset. Write a 1 to this bit to clear the flag. Note that a mask bit is not provided for this bit.

GET ALERT STATE	ASCII READ COMMAND	#GASTATE<CHIPNR><CR> Result: #GASTATE<CHIPNR>:<ChipxAlertState><CR>	ASCII	
	CHIPNR	1		
	TX	#1,GASTATE1<CR>		
	RX	#1,GASTATE4:33792,0x8400<CR>		
		Actual alert state of CHIP1:33792,0x8400		
		Alert state bit 0: VI_ERR_A:0		
		Alert state bit 1: VI_ERR_B:0		
		Alert state bit 2: VI_ERR_C:0		
		Alert state bit 3: VI_ERR_D:0		
		Alert state bit 4: HI_TEMP_ERR:0		
		Alert state bit 5: CHARGE_PUMP_ERR:0		
		Alert state bit 6: ALDO5V_ERR:0		
		Alert state bit 7: AVDD_ERR:0		
		Alert state bit 8: DVCC_ERR:0		
		Alert state bit 9: ALDO1V8_ERR:0		
		Alert state bit 10: ADC_CONV_ERR:1		
		Alert state bit 11: ADC_SAT_ERR:0		
		Alert state bit 12: SPI_SCLK_CNT_ERR:0		
		Alert state bit 13: SPI_CRC_ERR:0		
		Alert state bit 14: CAL_MEM_ERR:0		
		Alert state bit 15: RESET OCCURED:0		

Returns the actual alert states for chip <CHIPNR>.

Each result bit stands for a different state:

Bit 0: VI_ERR_CURR_A: Status of channel A:Voltage or current error detected on Channel A. This bit is interpreted differently depending on which of the following IO function selected:
Voltage output: short-circuit error. The error condition is debounced for 2 ms before the status bit is set.
Current output: open circuit error. The error condition is debounced for 2 ms before the status bit is set.
Current input, loop powered: short-circuit error. A short to ground is detected
Current input, externally powered: short-circuit error. A current source >25 mA is detected

Bit 1: VI_ERR_CURR_B: Status of voltage input B. Same like VI_ERR_CURR_A

Bit 2: VI_ERR_CURR_C: Status of voltage input C. Same like VI_ERR_CURR_A

Bit 3: VI_ERR_CURR_D: Status of voltage input D. Same like VI_ERR_CURR_A

Bit 4: HI_TEMP_STATUS: If the die temperature is typically at or above 115°C, the HI_TEMP_STATUS bit is asserted

Bit 5: CHARGE_PUMP_STATUS: Charge pump error detected.

Bit 6: ALDO5V_STATUS: ALDO5V Power Supply Monitor Error. This bit is asserted when the ALDO5V pin falls below 4.05 V. Usually ~5V.

Bit 7: AVDD_STATUS: AVDD Power Supply Monitor Error. This bit is asserted when the AVDD pin falls below 9.26 V. Usually ~17V.

Bit 8: DVCC_STATUS: DVCC Power Supply Monitor Error. This bit is asserted when the DVCC pin falls below 1.93 V. Usually ~3.3V.

Bit 9: ALDO1V8_STATUS: ALDO1V8 Power Supply Monitor Error. This bit is asserted when the ALDO1V8 pin falls below 1.35 V. Usually ~1.8V.

Bit 10: ADC_CONV_ERR: ADC Conversion Error. ADC results may be outside the selected measurement range.

Bit 11: ADC_SAT_ERR: ADC Saturation Error. ADC may be outside the user selected measurement range.

Bit 12: SPI_SCLK_CNT_ERR: SPI SCLK count error detected. This bit is asserted if an SPI command is applied but 32 SCLKs are not provided.

Bit 13: SPI_CRC_ERR: SPI CRC error detected. This bit is asserted if an invalid CRC is received.

Bit 14: CAL_MEM_ERR: Calibration Memory Error. This flag asserts under the following two conditions: When a calibration memory CRC error or an uncorrectable error correcting code (ECC) error is detected on the calibration memory upload. It is not possible to clear this bit if there is a CRC error or uncorrectable ECC error. It is recommended to reset the device and check the supplies in this situation. When there is an attempted SPI access to a register before the calibration memory refresh is complete. Do not address the device until the calibration memory is refreshed. Writing 1 to this bit clears the flag, if the flag is asserted due to this condition.

Bit 15: RESET_OCCURRED: Reset occurred. This bit is asserted after a reset event, which asserts the ALERT pin after the reset. Write a 1 to this bit to clear the flag. Note that a mask bit is not provided for this bit.

CLEAR ALERT STATE	ASCII WRITE COMMAND	#CALERTS<CHIPNR>:<AlertState> <CR> Result: #OK<CR>		ASCII	YES
	CHIPNR	1			
	Bit 0	1:RESET FLAG	0:VI_ERR_A		
	Bit 1	1:RESET FLAG	1:VI_ERR_B		
	Bit 2	1:RESET FLAG	2:VI_ERR_C		
	Bit 3	1:RESET FLAG	3:VI_ERR_D		
	Bit 4	1:RESET FLAG	4:HI_TEMP_ERR		
	Bit 5	1:RESET FLAG	5:CHARGE_PUMP_ERR		
	Bit 6	1:RESET FLAG	6:ALDO5V_ERR		
	Bit 7	1:RESET FLAG	7:AVDD_ERR		
	Bit 8	1:RESET FLAG	8:DVCC_ERR		
	Bit 9	1:RESET FLAG	9:ALDO1V8_ERR		
	Bit 10	1:RESET FLAG	10:ADC_CONV_ERR		
	Bit 11	1:RESET FLAG	11:ADC_SAT_ERR		
	Bit 12	1:RESET FLAG	12:SPI_SCLK_ERR		
	Bit 13	1:RESET FLAG	13:SPI_CRC_ERR		
	Bit 14	1:RESET FLAG	14:CAL_MEM_ERR		
	Bit 15	1:RESET FLAG	15:RESET_OCCURED		
	TX	#1,CALERTS1:65535<CR>			
	RX	N/A			

With this command you can reset individual alert bits in the alert status register

CHIP TEMPERATURES

GET CHIP TEMPERATURES	ASCII READ COMMAND	#GCHIPTemps<CR> Result: #GCHIPTemps:<Chip1TempDbl>,<Chip2TempDbl>,<Chip3TempDbl>,<Chip4TempDbl> <CR>	ASCII	
	TX	#1,GCHIPTemps<CR>		
	RX	#1,GCHIPTemps:46.37,47.49,45.59,46.70<CR>		
		Actual temperature of CHIP1:46.37°C		
		Actual temperature of CHIP2:47.49°C		
		Actual temperature of CHIP3:45.59°C		
		Actual temperature of CHIP4:46.70°C		

This command returns for every AIOX chip the actual chip temperature in °C

GET CHIP TEMPERATURE	ASCII READ COMMAND	#GCHIPTemp<CHIPNR> <CR> Result: #GCHIPTemp<CHIPNR>:<ChipxTempDbl> <CR>	ASCII	
	CHIPNR	1		
	TX	#1,GCHIPTemp1<CR>		
	RX	#1,GCHIPTemp1:46.37<CR>		
		Actual temperature of CHIP1:46.37°C		

This command returns for AIOX chip <CHIPNR> the actual chip temperature in °C

AVERAGE CHIP TEMPERATURES

GET AVERAGE CHIP TEMPERATURES	ASCII READ COMMAND	#GAVGCHIPTemps<CR> Result: #GAVGCHIPTemps:<Chip1AvgTempDbl>,<Chip2AvgTempDbl>,<Chip3AvgTempDbl>,<Chip4AvgTempDbl> <CR>	ASCII	
	TX	#1,GAVGCHIPTemps<CR>		
	RX	#1,GAVGCHIPTemps:46.36,47.47,45.48,46.66<CR>		
		Average temperature of CHIP1:46.36°C		
		Average temperature of CHIP2:47.47°C		
		Average temperature of CHIP3:45.48°C		
		Average temperature of CHIP4:46.66°C		

This command returns for every AIOX chip the average chip temperature in °C

GET AVERAGE CHIP TEMPERATURE	ASCII READ COMMAND	#GAVGCHIPTemp<CHIPNR> <CR> Result: #GAVGCHIPTemp<CHIPNR>:<ChipxAvgTempDbl> <CR>	ASCII	
	CHIPNR	1		
	TX	#1,GAVGCHIPTemp1<CR>		
	RX	#1,GAVGCHIPTemp1:46.36<CR>		
		Average temperature of CHIP1:46.36°C		

This command returns for AIOX chip <CHIPNR> the average chip temperature in °C

CHIP SUPPLY VOLTAGES

GET SUPPLY VOLTAGES	ASCII READ COMMAND	#GVAVDDS<CR> Result: #GVAVDDS:<Chip1VAVDDDBl>,<Chip2VAVDDDBl>,<Chip3VAVDDDBl>,<Chip4VAVDDDBl> <CR>	ASCII	
	TX	#1,GVAVDDS<CR>		

	RX	#1,GVAVDDS:14.61,14.62,14.62,14.60<CR>		
		Actual supply voltage of CHIP1:14.61V		
		Actual supply voltage of CHIP2:14.62V		
		Actual supply voltage of CHIP3:14.62V		
		Actual supply voltage of CHIP4:14.60V		

This command returns for every AIOX chip the actual supply voltage in Volts.

This must be >14.5V, if not, there is a severe wiring or other hardware issue!

GET SUPPLY VOLTAGE	ASCII READ COMMAND	#GVAVDD<CHIPNR> <CR> Result: #GVAVDD<CHIPNR>:<ChipxVAVDD> <CR>	ASCII	
	CHIPNR	1		
	TX	#1,GVAVDD1<CR>		
	RX	#1,GVAVDD1:14.61<CR>		
		Actual supply voltage of CHIP1:14.61V		

This command returns for AIOX chip <CHIPNR> the actual supply voltage in Volts.

This must be >14.5V, if not, there is a severe wiring or other hardware issue!

AVERAGE CHIP SUPPLY VOLTAGES

GET AVERAGE SUPPLY VOLTAGES	ASCII READ COMMAND	#GAVGVAVDDS<CR> Result: #GAVGVAVDDS:<Chip1AvgVAVDDDb1>,<Chip2AvgVAVDDDb1>, <Chip3AvgVAVDDDb1>,<Chip4AvgVAVDDDb1> <CR>	ASCII	
	TX	#1,GAVGVAVDDS<CR>		
	RX	#1,GAVGVAVDDS:14.61,14.60,14.62,14.60<CR>		
		Average supply voltage of CHIP1:14.61V		
		Average supply voltage of CHIP2:14.60V		
		Average supply voltage of CHIP3:14.62V		
		Average supply voltage of CHIP4:14.60V		

This command returns for every AIOX chip the average supply voltage in Volts.

This must be >14.5V, if not, there is a severe wiring or other hardware issue!

GET AVERAGE SUPPLY VOLTAGE	ASCII READ COMMAND	#GAVGVAVDD<CHIPNR> <CR> Result: #GAVGVAVDD<CHIPNR>:<ChipxAvgVAVDD> <CR>	ASCII	
	CHIPNR	1		
	TX	#1,GAVGVAVDD1<CR>		
	RX	#1,GAVGVAVDD1:14.61<CR>		
		Average supply voltage of CHIP1:14.61V		

This command returns for AIOX chip <CHIPNR> the average supply voltage in Volts.

This must be >14.5V, if not, there is a severe wiring or other hardware issue!

CHIP GROUND VOLTAGES

GET GROUND VOLTAGES	ASCII READ COMMAND	#GVAGNDS<CR> Result: #GVAGNDS:<Chip1VAGNDDb1>,<Chip2VAGNDDb1>, <Chip3VAGNDDb1>,<Chip4VAGNDDb1> <CR>	ASCII	
	TX	#1,GVAGNDS<CR>		

	RX	#1,GVAGNDS:0.00,0.00,0.00,0.00<CR>		
		Actual ground voltage of CHIP1:0.00V		
		Actual ground voltage of CHIP2:0.00V		
		Actual ground voltage of CHIP3:0.00V		
		Actual ground voltage of CHIP4:0.00V		
This command returns for every AIOX chip the actual ground voltage in Volts. This must be 0, if not, there is a severe wiring or other hardware issue!				
GET GROUND VOLTAGE	ASCII READ COMMAND	#GVAGND<CHIPNR> <CR> Result: #GVAGND<CHIPNR>:<ChipxVAGNDDbl> <CR>	ASCII	
	CHIPNR	1		
	TX	#1,GVAGND1<CR>		
	RX	#1,GVAGND1:0.00<CR>		
		Actual ground voltage of CHIP1:0.00V		
This command returns for AIOX chip <CHIPNR> the actual ground voltage in Volts. This must be 0, if not, there is a severe wiring or other hardware issue!				
AVERAGE CHIP GROUND VOLTAGES				
GET AVERAGE GROUND VOLTAGES	ASCII READ COMMAND	#GAVGVAGNDS<CR> Result: #GAVGVAGNDS:<Chip1AvgVAGNDDbl>,<Chip2AvgVAGNDDbl>, <Chip3AvgVAGNDDbl>,<Chip4AvgVAGNDDbl> <CR>	ASCII	
	TX	#1,GAVGVAGNDS<CR>		
	RX	#1,GAVGVAGNDS:0.00,0.00,0.00,0.00<CR>		
		Average ground voltage of CHIP1:0.00V		
		Average ground voltage of CHIP2:0.00V		
		Average ground voltage of CHIP3:0.00V		
		Average ground voltage of CHIP4:0.00V		
This command returns for every AIOX chip the average ground voltage in Volts. This must be 0, if not, there is a severe wiring or other hardware issue!				
GET AVERAGE GROUND VOLTAGE	ASCII READ COMMAND	#GAVGVAGND<CHIPNR> <CR> Result: #GAVGVAGND<CHIPNR>:<ChipxAvgVAVGNDDbl> <CR>	ASCII	
	CHIPNR	1		
	TX	#1,GAVGVAGND1<CR>		
	RX	#1,GAVGVAGND1:0.00<CR>		
		Average ground voltage of CHIP1:0.00V		
This command returns for AIOX chip <CHIPNR> the average ground voltage in Volts. This must be 0, if not, there is a severe wiring or other hardware issue!				

Register NAME Command NAME	MODBUS Register ASCII Command	Register VALUE ASCII Command	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
ASCII COMMANDS						
SET CONFIG OUTPUT VALUES	ASCII WRITE COMMAND	#SCFGOVs:<IO1CfgValDbI>,<IO2CfgValDbI>,<IO3CfgValDbI>,<IO4CfgValDbI>,<IO5CfgValDbI>,<IO6CfgValDbI>,<IO7CfgValDbI>,<IO8CfgValDbI>,<IO9CfgValDbI>,<IO10CfgValDbI>,<IO11CfgValDbI>,<IO12CfgValDbI>,<IO13CfgValDbI>,<IO14CfgValDbI>,<IO15CfgValDbI>,<IO16CfgValDbI><CR> Result: #OK<CR>			ASCII	YES
	IO1Value	,000				
	IO2Value	,000				
	IO3Value	,000				
	IO4Value	,000				
	IO5Value	,000				
	IO6Value	,000				
	IO7Value	,000				
	IO8Value	,000				
	IO9Value	,000				
	IO10Value	,000				
	IO11Value	,000				
	IO12Value	,000				
	IO13Value	,000				
	IO14Value	,000				
	IO15Value	,000				
	IO16Value	,000				
	TX	#1,SCFGOVs:0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0<CR>				
	RX	N/A				
This command sets for all outputs the standard value in Volt or in mA, which are used when the controller is restartet or performing a watchdog reset and the channel is used as voltage output or current output. For voltage outputs the range is 0 to 11,0V. For current outputs the range is 0 to 25mA.						
SET CONFIG OUTPUT VALUEx	ASCII WRITE COMMAND	#SCFGOV<IONR>:<IOxCfgValueDbI><CR> Result: #OK<CR>			ASCII	YES
	IONR	16				
	IOxCfgValue	,000				
	TX	#1,SCFGOV16:0<CR>				
	RX	N/A				
This command sets for one outputs the standard value in Volt or in mA, which is used when the controller is restartet and the channel is used as voltage output or current output. For voltage outputs the range is 0 to 11,0V. For current outputs the range is 0 to 25mA.						
GET CONFIG OUTPUT VALUES	ASCII READ COMMAND	#GCFGOVs<CR> Result: #GCFGOVs:<IOVolt1DbI>,<IOVolt2DbI>,...,<IOVolt16DbI><CR>			ASCII	

This command restarts the internal CPU of the 16AIOX add-on print. All channels will be reset & initialized completely

Register NAME Command NAME	MODBUS Register ASCII Command	Register VALUE ASCII Command	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
AIOX IO TYPES						
IO TYPE1	3x40001 4x40001 I:40000	0,0x0000 B:00 00		13:RTDI[OHM]	UINT16 R/W	YES
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		
Current configured IO type for AIOXx =0: UNUSED =1: VOLTAGE INPUT[0-10V] =2: VOLTAGE INPUT[2-10V] =3: VOLTAGE OUTPUT[0-10V] =4: VOLTAGE OUTPUT[2-10V] =5: CURRENT INPUT LOOP POWERED[0-20mA] =6: CURRENT INPUT LOOP POWERED[4-20mA] =7: CURRENT INPUT EXTERNAL POWERED[0-20mA] =8: CURRENT INPUT EXTERNAL POWERED[4-20mA] =9: CURRENT OUTPUT[0-20mA] =10: CURRENT OUTPUT[4-20mA] =11: DIGITAL INPUT LOGIC 24V= =12: DIGITAL INPUT LOOP POWERED =13: RESISTANCE MEASUREMENT HINT: The last IO type is automatically stored in FRAM and will be used after a system restart.						
IO TYPE2	3x40002 4x40002 I:40001	0,0x0000 B:00 00		12:DI[24V;LP]	UINT16 R/W	YES
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		
IO TYPE3	3x40003 4x40003 I:40002	0,0x0000 B:00 00		1:VI[0-10V]	UINT16 R/W	NO
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		
IO TYPE4	3x40004 4x40004 I:40003	0,0x0000 B:00 00		1:VI[0-10V]	UINT16 R/W	NO
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		
IO TYPE5	3x40005 4x40005 I:40004	0,0x0000 B:00 00		3:VO[0-10V]	UINT16 R/W	NO
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		
IO TYPE6	3x40006 4x40006 I:40005	0,0x0000 B:00 00		3:VO[0-10V]	UINT16 R/W	NO
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		

IO TYPE7	3x40007 4x40007 I:40006	0,0x0000 B:00 00		3:VO[0-10V]	UINT16 R/W	NO
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		
IO TYPE8	3x40008 4x40008 I:40007	0,0x0000 B:00 00		3:VO[0-10V]	UINT16 R/W	NO
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		
IO TYPE9	3x40009 4x40009 I:40008	0,0x0000 B:00 00		3:VO[0-10V]	UINT16 R/W	NO
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		
IO TYPE10	3x40010 4x40010 I:40009	0,0x0000 B:00 00		3:VO[0-10V]	UINT16 R/W	NO
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		
IO TYPE11	3x40011 4x40011 I:40010	0,0x0000 B:00 00		3:VO[0-10V]	UINT16 R/W	NO
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		
IO TYPE12	3x40012 4x40012 I:40011	0,0x0000 B:00 00		3:VO[0-10V]	UINT16 R/W	NO
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		
IO TYPE13	3x40013 4x40013 I:40012	0,0x0000 B:00 00		3:VO[0-10V]	UINT16 R/W	NO
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		
IO TYPE14	3x40014 4x40014 I:40013	0,0x0000 B:00 00		3:VO[0-10V]	UINT16 R/W	NO
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		
IO TYPE15	3x40015 4x40015 I:40014	0,0x0000 B:00 00		3:VO[0-10V]	UINT16 R/W	NO
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		
IO TYPE16	3x40016 4x40016 I:40015	0,0x0000 B:00 00		1:VI[0-10V]	UINT16 R/W	NO
		Actual IO type of AIOx:0:UU		CHOOSE NEW IO TYPE FROM LIST		
AIOX:VOLTAGE INPUTS						
VOLTAGE INPUT1 IN VOLTS	3x40017 4x40017 I:40016	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of VIx:65535=N/V				

Current value of voltage input in x*100V, range 0-10V
 =65535,0xFFFF: The channel is not configured as voltage input

VOLTAGE INPUT2 IN VOLTS	3x40018 4x40018 I:40017	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT3 IN VOLTS	3x40019 4x40019 I:40018	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT4 IN VOLTS	3x40020 4x40020 I:40019	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT5 IN VOLTS	3x40021 4x40021 I:40020	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT6 IN VOLTS	3x40022 4x40022 I:40021	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT7 IN VOLTS	3x40023 4x40023 I:40022	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT8 IN VOLTS	3x40024 4x40024 I:40023	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT9 IN VOLTS	3x40025 4x40025 I:40024	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT10 IN VOLTS	3x40026 4x40026 I:40025	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT11 IN VOLTS	3x40027 4x40027 I:40026	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT12 IN VOLTS	3x40028 4x40028 I:40027	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				

VOLTAGE INPUT13 IN VOLTS	3x40029 4x40029 I:40028	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT14 IN VOLTS	3x40030 4x40030 I:40029	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT15 IN VOLTS	3x40031 4x40031 I:40030	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT16 IN VOLTS	3x40032 4x40032 I:40031	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
AIOX:VOLTAGE INPUTS						
VOLTAGE INPUT1 IN PERCENT	3x40033 4x40033 I:40032	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
Current value of voltage input in x*100%, range 0-100% =65535,0xFFFF: The channel is not configured as voltage input						
VOLTAGE INPUT3 IN PERCENT	3x40034 4x40034 I:40033	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT3 IN PERCENT	3x40035 4x40035 I:40034	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT4 IN PERCENT	3x40036 4x40036 I:40035	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT5 IN PERCENT	3x40037 4x40037 I:40036	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT6 IN PERCENT	3x40038 4x40038 I:40037	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT7 IN PERCENT	3x40039 4x40039 I:40038	65535,0xFFFF B:FF FF			UINT16 R/O	

		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT8 IN PERCENT	3x40040 4x40040 l:40039	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT9 IN PERCENT	3x40041 4x40041 l:40040	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT10 IN PERCENT	3x40042 4x40042 l:40041	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT11 IN PERCENT	3x40043 4x40043 l:40042	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT12 IN PERCENT	3x40044 4x40044 l:40043	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT13 IN PERCENT	3x40045 4x40045 l:40044	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT14 IN PERCENT	3x40046 4x40046 l:40045	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT15 IN PERCENT	3x40047 4x40047 l:40046	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
VOLTAGE INPUT16 IN PERCENT	3x40048 4x40048 l:40047	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
AIOX:VOLTAGE OUTPUTS						
VOLTAGE OUTPUT1 IN VOLTS	3x40049 4x40049 l:40048	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
Current value of voltage output in x*100V, range 0-11V =65535,0xFFFF: The channel is not configured as voltage output Writing a new value onto this register sets voltage output x to a new output value in Volt						

VOLTAGE OUTPUT2 IN VOLTS	3x40050 4x40050 I:40049	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT3 IN VOLTS	3x40051 4x40051 I:40050	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT4 IN VOLTS	3x40052 4x40052 I:40051	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT5 IN VOLTS	3x40053 4x40053 I:40052	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT6 IN VOLTS	3x40054 4x40054 I:40053	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT7 IN VOLTS	3x40055 4x40055 I:40054	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT8 IN VOLTS	3x40056 4x40056 I:40055	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT9 IN VOLTS	3x40057 4x40057 I:40056	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT10 IN VOLTS	3x40058 4x40058 I:40057	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT11 IN VOLTS	3x40059 4x40059 I:40058	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT12 IN VOLTS	3x40060 4x40060 I:40059	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		

VOLTAGE OUTPUT13 IN VOLTS	3x40061 4x40061 I:40060	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT14 IN VOLTS	3x40062 4x40062 I:40061	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT15 IN VOLTS	3x40063 4x40063 I:40062	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT16 IN VOLTS	3x40064 4x40064 I:40063	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
AIOX:VOLTAGE OUTPUTS						
VOLTAGE OUTPUT1 IN PERCENT	3x40065 4x40065 I:40064	65535,0xFFFF B:FF FF	11000	110	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
Current value of voltage output in x*100%, range 0-110% (100%=10V) =65535,0xFFFF: The channel is not configured as voltage output						
Writing a new value onto this register sets voltage output x to a new output value in percent						
VOLTAGE OUTPUT2 IN PERCENT	3x40066 4x40066 I:40065	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT3 IN PERCENT	3x40067 4x40067 I:40066	65535,0xFFFF B:FF FF	3000	30	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT4 IN PERCENT	3x40068 4x40068 I:40067	65535,0xFFFF B:FF FF	7500	75	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT5 IN PERCENT	3x40069 4x40069 I:40068	65535,0xFFFF B:FF FF	0	0	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		
VOLTAGE OUTPUT6 IN PERCENT	3x40070 4x40070 I:40069	65535,0xFFFF B:FF FF	0	0	UINT16 R/W	NO
		Actual value of VOx:65535=N/V		ENTER NEW VALUE FOR VOx		

VOLTAGE OUTPUT7 IN PERCENT	3x40071 4x40071 I:40070	65535,0xFFFF B:FF FF	0	0	UINT16 R/W	NO
		Actual value of VOx:65535=N/V			ENTER NEW VALUE FOR VOx	
VOLTAGE OUTPUT8 IN PERCENT	3x40072 4x40072 I:40071	65535,0xFFFF B:FF FF	0	0	UINT16 R/W	NO
		Actual value of VOx:65535=N/V			ENTER NEW VALUE FOR VOx	
VOLTAGE OUTPUT9 IN PERCENT	3x40073 4x40073 I:40072	65535,0xFFFF B:FF FF	0	0	UINT16 R/W	NO
		Actual value of VOx:65535=N/V			ENTER NEW VALUE FOR VOx	
VOLTAGE OUTPUT10 IN PERCENT	3x40074 4x40074 I:40073	65535,0xFFFF B:FF FF	0	0	UINT16 R/W	NO
		Actual value of VOx:65535=N/V			ENTER NEW VALUE FOR VOx	
VOLTAGE OUTPUT11 IN PERCENT	3x40075 4x40075 I:40074	65535,0xFFFF B:FF FF	0	0	UINT16 R/W	NO
		Actual value of VOx:65535=N/V			ENTER NEW VALUE FOR VOx	
VOLTAGE OUTPUT12 IN PERCENT	3x40076 4x40076 I:40075	65535,0xFFFF B:FF FF	0	0	UINT16 R/W	NO
		Actual value of VOx:65535=N/V			ENTER NEW VALUE FOR VOx	
VOLTAGE OUTPUT13 IN PERCENT	3x40077 4x40077 I:40076	65535,0xFFFF B:FF FF	0	0	UINT16 R/W	NO
		Actual value of VOx:65535=N/V			ENTER NEW VALUE FOR VOx	
VOLTAGE OUTPUT14 IN PERCENT	3x40078 4x40078 I:40077	65535,0xFFFF B:FF FF	0	0	UINT16 R/W	NO
		Actual value of VOx:65535=N/V			ENTER NEW VALUE FOR VOx	
VOLTAGE OUTPUT15 IN PERCENT	3x40079 4x40079 I:40078	65535,0xFFFF B:FF FF	0	0	UINT16 R/W	NO
		Actual value of VOx:65535=N/V			ENTER NEW VALUE FOR VOx	
VOLTAGE OUTPUT16 IN PERCENT	3x40080 4x40080 I:40079	65535,0xFFFF B:FF FF	0	0	UINT16 R/W	NO
		Actual value of VOx:65535=N/V			ENTER NEW VALUE FOR VOx	
AIOX:VOLTAGE OUTPUTS						
VOLTAGE OUTPUT1 MEASURED CURRENT	3x40081 4x40081 I:40080	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				

Returns the measured output current in x*100mA on voltage output VOx, Range -25mA..+25mA

=-32768,0x8000: The channel is not configured as voltage output

VOLTAGE OUTPUT2 MEASURED CURRENT	3x40082 4x40082 I:40081	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				
VOLTAGE OUTPUT3 MEASURED CURRENT	3x40083 4x40083 I:40082	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				
VOLTAGE OUTPUT4 MEASURED CURRENT	3x40084 4x40084 I:40083	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				
VOLTAGE OUTPUT5 MEASURED CURRENT	3x40085 4x40085 I:40084	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				
VOLTAGE OUTPUT6 MEASURED CURRENT	3x40086 4x40086 I:40085	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				
VOLTAGE OUTPUT7 MEASURED CURRENT	3x40087 4x40087 I:40086	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				
VOLTAGE OUTPUT8 MEASURED CURRENT	3x40088 4x40088 I:40087	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				
VOLTAGE OUTPUT9 MEASURED CURRENT	3x40089 4x40089 I:40088	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				
VOLTAGE OUTPUT10 MEASURED CURRENT	3x40090 4x40090 I:40089	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				
VOLTAGE OUTPUT11 MEASURED CURRENT	3x40091 4x40091 I:40090	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				
VOLTAGE OUTPUT12 MEASURED CURRENT	3x40092 4x40092 I:40091	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				

VOLTAGE OUTPUT13 MEASURED CURRENT	3x40093 4x40093 I:40092	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				
VOLTAGE OUTPUT14 MEASURED CURRENT	3x40094 4x40094 I:40093	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				
VOLTAGE OUTPUT15 MEASURED CURRENT	3x40095 4x40095 I:40094	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				
VOLTAGE OUTPUT16 MEASURED CURRENT	3x40096 4x40096 I:40095	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of VOx:-32768=N/V				
AIOX:CURRENT INPUTS						
CURRENT INPUT1 IN MILLIAMPERE	3x40097 4x40097 I:40096	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				
Current value of current input in x*100mA, range 0-25mA =65535,0xFFFF: The channel is not configured as current input						
CURRENT INPUT2 IN MILLIAMPERE	3x40098 4x40098 I:40097	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
CURRENT INPUT3 IN MILLIAMPERE	3x40099 4x40099 I:40098	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
CURRENT INPUT4 IN MILLIAMPERE	3x40100 4x40100 I:40099	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
CURRENT INPUT5 IN MILLIAMPERE	3x40101 4x40101 I:40100	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
CURRENT INPUT6 IN MILLIAMPERE	3x40102 4x40102 I:40101	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Vlx:65535=N/V				
CURRENT INPUT7 IN MILLIAMPERE	3x40103 4x40103 I:40102	65535,0xFFFF B:FF FF			UINT16 R/O	

		Actual value of Vlx:65535=N/V			
CURRENT INPUT8 IN MILLIAMPERE	3x40104 4x40104 I:40103	65535,0xFFFF B:FF FF		UINT16 R/O	
		Actual value of Vlx:65535=N/V			
CURRENT INPUT9 IN MILLIAMPERE	3x40105 4x40105 I:40104	65535,0xFFFF B:FF FF		UINT16 R/O	
		Actual value of Vlx:65535=N/V			
CURRENT INPUT10 IN MILLIAMPERE	3x40106 4x40106 I:40105	65535,0xFFFF B:FF FF		UINT16 R/O	
		Actual value of Vlx:65535=N/V			
CURRENT INPUT11 IN MILLIAMPERE	3x40107 4x40107 I:40106	65535,0xFFFF B:FF FF		UINT16 R/O	
		Actual value of Vlx:65535=N/V			
CURRENT INPUT12 IN MILLIAMPERE	3x40108 4x40108 I:40107	65535,0xFFFF B:FF FF		UINT16 R/O	
		Actual value of Vlx:65535=N/V			
CURRENT INPUT13 IN MILLIAMPERE	3x40109 4x40109 I:40108	65535,0xFFFF B:FF FF		UINT16 R/O	
		Actual value of Vlx:65535=N/V			
CURRENT INPUT14 IN MILLIAMPERE	3x40110 4x40110 I:40109	65535,0xFFFF B:FF FF		UINT16 R/O	
		Actual value of Vlx:65535=N/V			
CURRENT INPUT15 IN MILLIAMPERE	3x40111 4x40111 I:40110	65535,0xFFFF B:FF FF		UINT16 R/O	
		Actual value of Vlx:65535=N/V			
CURRENT INPUT16 IN MILLIAMPERE	3x40112 4x40112 I:40111	65535,0xFFFF B:FF FF		UINT16 R/O	
		Actual value of Vlx:65535=N/V			
AIOX:CURRENT INPUTS					
CURRENT INPUT1 IN PERCENT	3x40113 4x40113 I:40112	65535,0xFFFF B:FF FF		UINT16 R/O	
		Actual value of Clx:65535=N/V			
Current value of current input in x*100%, range 0-125% (100%=20mA) =65535,0xFFFF: The channel is not configured as current input					

CURRENT INPUT2 IN PERCENT	3x40114 4x40114 I:40113	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				
CURRENT INPUT3 IN PERCENT	3x40115 4x40115 I:40114	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				
CURRENT INPUT4 IN PERCENT	3x40116 4x40116 I:40115	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				
CURRENT INPUT5 IN PERCENT	3x40117 4x40117 I:40116	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				
CURRENT INPUT6 IN PERCENT	3x40118 4x40118 I:40117	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				
CURRENT INPUT7 IN PERCENT	3x40119 4x40119 I:40118	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				
CURRENT INPUT8 IN PERCENT	3x40120 4x40120 I:40119	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				
CURRENT INPUT9 IN PERCENT	3x40121 4x40121 I:40120	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				
CURRENT INPUT10 IN PERCENT	3x40122 4x40122 I:40121	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				
CURRENT INPUT11 IN PERCENT	3x40123 4x40123 I:40122	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				
CURRENT INPUT12 IN PERCENT	3x40124 4x40124 I:40123	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				

CURRENT INPUT13 IN PERCENT	3x40125 4x40125 I:40124	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				
CURRENT INPUT14 IN PERCENT	3x40126 4x40126 I:40125	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				
CURRENT INPUT15 IN PERCENT	3x40127 4x40127 I:40126	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				
CURRENT INPUT16 IN PERCENT	3x40128 4x40128 I:40127	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual value of Clx:65535=N/V				
AIOX:CURRENT OUTPUTS						
CURRENT OUTPUT1 IN MILIAMPERE	3x40129 4x40129 I:40128	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V			ENTER NEW VALUE FOR COx	
Current value of current output in x*100mA, range 0-25mA =65535,0xFFFF: The channel is not configured as current output						
Writing a new value onto this register sets current output x to a new output value in Milliampere						
CURRENT OUTPUT2 IN MILIAMPERE	3x40130 4x40130 I:40129	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V			ENTER NEW VALUE FOR COx	
CURRENT OUTPUT3 IN MILIAMPERE	3x40131 4x40131 I:40130	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V			ENTER NEW VALUE FOR COx	
CURRENT OUTPUT4 IN MILIAMPERE	3x40132 4x40132 I:40131	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V			ENTER NEW VALUE FOR COx	
CURRENT OUTPUT5 IN MILIAMPERE	3x40133 4x40133 I:40132	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V			ENTER NEW VALUE FOR COx	
CURRENT OUTPUT6 IN MILIAMPERE	3x40134 4x40134 I:40133	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V			ENTER NEW VALUE FOR COx	

CURRENT OUTPUT7 IN MILIAMPERE	3x40135 4x40135 I:40134	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT8 IN MILIAMPERE	3x40136 4x40136 I:40135	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT9 IN MILIAMPERE	3x40137 4x40137 I:40136	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT10 IN MILIAMPERE	3x40138 4x40138 I:40137	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT11 IN MILIAMPERE	3x40139 4x40139 I:40138	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT12 IN MILIAMPERE	3x40140 4x40140 I:40139	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT13 IN MILIAMPERE	3x40141 4x40141 I:40140	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT14 IN MILIAMPERE	3x40142 4x40142 I:40141	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT15 IN MILIAMPERE	3x40143 4x40143 I:40142	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT16 IN MILIAMPERE	3x40144 4x40144 I:40143	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
AIOX:CURRENT OUTPUTS						
CURRENT OUTPUT1 IN PERCENT	3x40145 4x40145 I:40144	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		

Current value of current output in x*100%, range 0-125% (100%=20mA)
=65535,0xFFFF: The channel is not configured as current output

Writing a new value onto this register sets current output x to a new output value in percent

CURRENT OUTPUT2 IN PERCENT	3x40146 4x40146 I:40145	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT3 IN PERCENT	3x40147 4x40147 I:40146	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT4 IN PERCENT	3x40148 4x40148 I:40147	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT5 IN PERCENT	3x40149 4x40149 I:40148	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT6 IN PERCENT	3x40150 4x40150 I:40149	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT7 IN PERCENT	3x40151 4x40151 I:40150	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT8 IN PERCENT	3x40152 4x40152 I:40151	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT9 IN PERCENT	3x40153 4x40153 I:40152	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT10 IN PERCENT	3x40154 4x40154 I:40153	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT11 IN PERCENT	3x40155 4x40155 I:40154	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		

CURRENT OUTPUT12 IN PERCENT	3x40156 4x40156 I:40155	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT13 IN PERCENT	3x40157 4x40157 I:40156	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT14 IN PERCENT	3x40158 4x40158 I:40157	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT15 IN PERCENT	3x40159 4x40159 I:40158	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
CURRENT OUTPUT16 IN PERCENT	3x40160 4x40160 I:40159	65535,0xFFFF B:FF FF	5000	50	UINT16 R/W	NO
		Actual value of COx:65535=N/V		ENTER NEW VALUE FOR COx		
AIOX:CURRENT OUTPUTS						
CURRENT OUTPUT1 MEASURED VOLTS	3x40161 4x40161 I:40160	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
Current measured output voltage for current output x*100V, range 0-10V =65535,0xFFFF: The channel is not configured as current output						
CURRENT OUTPUT2 MEASURED VOLTS	3x40162 4x40162 I:40161	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
CURRENT OUTPUT3 MEASURED VOLTS	3x40163 4x40163 I:40162	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
CURRENT OUTPUT4 MEASURED VOLTS	3x40164 4x40164 I:40163	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
CURRENT OUTPUT5 MEASURED VOLTS	3x40165 4x40165 I:40164	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
CURRENT OUTPUT6 MEASURED VOLTS	3x40166 4x40166 I:40165	65535,0xFFFF B:FF FF			UINT16 R/O	

		Actual measured output voltage COx:65535=N/V				
CURRENT OUTPUT7 MEASURED VOLTS	3x40167 4x40167 I:40166	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
CURRENT OUTPUT8 MEASURED VOLTS	3x40168 4x40168 I:40167	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
CURRENT OUTPUT9 MEASURED VOLTS	3x40169 4x40169 I:40168	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
CURRENT OUTPUT10 MEASURED VOLTS	3x40170 4x40170 I:40169	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
CURRENT OUTPUT11 MEASURED VOLTS	3x40171 4x40171 I:40170	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
CURRENT OUTPUT12 MEASURED VOLTS	3x40172 4x40172 I:40171	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
CURRENT OUTPUT13 MEASURED VOLTS	3x40173 4x40173 I:40172	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
CURRENT OUTPUT14 MEASURED VOLTS	3x40174 4x40174 I:40173	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
CURRENT OUTPUT15 MEASURED VOLTS	3x40175 4x40175 I:40174	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
CURRENT OUTPUT16 MEASURED VOLTS	3x40176 4x40176 I:40175	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
AIOX:DIGITAL INPUTS						
DIGITAL INPUT1	3x40177 4x40177 I:40176	65535,0xFFFF B:FF FF			UINT16 R/O	

		Actual state of digital input DIx:65535=N/V				
Current measured state of digital input DIx =0: Digital input is OFF or loop is closed =1: Digital input is ON (+24V attached) or loop is open =65535,0xFFFF: The channel is not configured as digital input						
DIGITAL INPUT2	3x40178 4x40178 I:40177	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual state of digital input DIx:65535=N/V				
DIGITAL INPUT3	3x40179 4x40179 I:40178	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
DIGITAL INPUT4	3x40180 4x40180 I:40179	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
DIGITAL INPUT5	3x40181 4x40181 I:40180	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
DIGITAL INPUT6	3x40182 4x40182 I:40181	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
DIGITAL INPUT7	3x40183 4x40183 I:40182	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
DIGITAL INPUT8	3x40184 4x40184 I:40183	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
DIGITAL INPUT9	3x40185 4x40185 I:40184	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
DIGITAL INPUT10	3x40186 4x40186 I:40185	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
DIGITAL INPUT11	3x40187 4x40187 I:40186	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				

DIGITAL INPUT12	3x40188 4x40188 I:40187	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
DIGITAL INPUT13	3x40189 4x40189 I:40188	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
DIGITAL INPUT14	3x40190 4x40190 I:40189	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
DIGITAL INPUT15	3x40191 4x40191 I:40190	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
DIGITAL INPUT16	3x40192 4x40192 I:40191	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured output voltage COx:65535=N/V				
AIOX:DIGITAL INPUTS						
DIGITAL INPUT1 MEASURED CURRENT	3x40193 4x40193 I:40192	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of DIx:-32768=N/V				
Returns the measured output current in x*100mA on DIGITAL INPUT VOx, Range -25mA..+25mA =-32768,0x8000: The channel is not configured as DIGITAL INPUT						
DIGITAL INPUT2 MEASURED CURRENT	3x40194 4x40194 I:40193	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of DIx:-32768=N/V				
DIGITAL INPUT3 MEASURED CURRENT	3x40195 4x40195 I:40194	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of DIx:-32768=N/V				
DIGITAL INPUT4 MEASURED CURRENT	3x40196 4x40196 I:40195	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of DIx:-32768=N/V				
DIGITAL INPUT5 MEASURED CURRENT	3x40197 4x40197 I:40196	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of DIx:-32768=N/V				
DIGITAL INPUT6 MEASURED CURRENT	3x40198 4x40198 I:40197	-32768,0x8000 B:80 00			SINT16 R/O	

		Actual measured output current of DIx:-32768=N/V				
DIGITAL INPUT7 MEASURED CURRENT	3x40199 4x40199 I:40198	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of DIx:-32768=N/V				
DIGITAL INPUT8 MEASURED CURRENT	3x40200 4x40200 I:40199	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of DIx:-32768=N/V				
DIGITAL INPUT9 MEASURED CURRENT	3x40201 4x40201 I:40200	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of DIx:-32768=N/V				
DIGITAL INPUT10 MEASURED CURRENT	3x40202 4x40202 I:40201	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of DIx:-32768=N/V				
DIGITAL INPUT11 MEASURED CURRENT	3x40203 4x40203 I:40202	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of DIx:-32768=N/V				
DIGITAL INPUT12 MEASURED CURRENT	3x40204 4x40204 I:40203	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of DIx:-32768=N/V				
DIGITAL INPUT13 MEASURED CURRENT	3x40205 4x40205 I:40204	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of DIx:-32768=N/V				
DIGITAL INPUT14 MEASURED CURRENT	3x40206 4x40206 I:40205	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of DIx:-32768=N/V				
DIGITAL INPUT15 MEASURED CURRENT	3x40207 4x40207 I:40206	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of DIx:-32768=N/V				
DIGITAL INPUT16 MEASURED CURRENT	3x40208 4x40208 I:40207	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured output current of DIx:-32768=N/V				

Register NAME Command NAME	MODBUS Register ASCII Command	Register VALUE ASCII Command	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
AIOX:RTD INPUTS OHM*10						
RTD INPUT1 IN OHM*10	3x41001 4x41001 I:41000	65534,0xFFFE B:FF FE			UINT16 R/O	
		Actual measured ohm value of RTDlx:65534=OPEN				
Current measured RTD in Ohm*10 between 0 and 600000 =0..60000: Current measured resistance in Ohm*10 =65534,0xFFFE: The sensor or cabling is open (broken, not connected, or out of range) =65535,0xFFFF: The channel is not configured as RTD input						
RTD INPUT2 IN OHM*10	3x41002 4x41002 I:41001	65534,0xFFFE B:FF FE			UINT16 R/O	
		Actual measured ohm value of RTDlx:65534=OPEN				
RTD INPUT3 IN OHM*10	3x41003 4x41003 I:41002	65534,0xFFFE B:FF FE			UINT16 R/O	
		Actual measured ohm value of RTDlx:65534=OPEN				
RTD INPUT4 IN OHM*10	3x41004 4x41004 I:41003	65534,0xFFFE B:FF FE			UINT16 R/O	
		Actual measured ohm value of RTDlx:65534=OPEN				
RTD INPUT5 IN OHM*10	3x41005 4x41005 I:41004	65534,0xFFFE B:FF FE			UINT16 R/O	
		Actual measured ohm value of RTDlx:65534=OPEN				
RTD INPUT6 IN OHM*10	3x41006 4x41006 I:41005	65534,0xFFFE B:FF FE			UINT16 R/O	
		Actual measured ohm value of RTDlx:65534=OPEN				
RTD INPUT7 IN OHM*10	3x41007 4x41007 I:41006	65534,0xFFFE B:FF FE			UINT16 R/O	
		Actual measured ohm value of RTDlx:65534=OPEN				
RTD INPUT8 IN OHM*10	3x41008 4x41008 I:41007	65534,0xFFFE B:FF FE			UINT16 R/O	
		Actual measured ohm value of RTDlx:65534=OPEN				
RTD INPUT9 IN OHM*10	3x41009 4x41009 I:41008	65534,0xFFFE B:FF FE			UINT16 R/O	

		Actual measured ohm value of RTDlx:65534=OPEN				
RTD INPUT10 IN OHM*10	3x41010 4x41010 I:41009	65534,0xFFFE B:FF FE			UINT16 R/O	
		Actual measured ohm value of RTDlx:65534=OPEN				
RTD INPUT11 IN OHM*10	3x41011 4x41011 I:41010	65534,0xFFFE B:FF FE			UINT16 R/O	
		Actual measured ohm value of RTDlx:65534=OPEN				
RTD INPUT12 IN OHM*10	3x41012 4x41012 I:41011	65534,0xFFFE B:FF FE			UINT16 R/O	
		Actual measured ohm value of RTDlx:65534=OPEN				
RTD INPUT13 IN OHM*10	3x41013 4x41013 I:41012	65534,0xFFFE B:FF FE			UINT16 R/O	
		Actual measured ohm value of RTDlx:65534=OPEN				
RTD INPUT14 IN OHM*10	3x41014 4x41014 I:41013	65534,0xFFFE B:FF FE			UINT16 R/O	
		Actual measured ohm value of RTDlx:65534=OPEN				
RTD INPUT15 IN OHM*10	3x41015 4x41015 I:41014	65534,0xFFFE B:FF FE			UINT16 R/O	
		Actual measured ohm value of RTDlx:65534=OPEN				
RTD INPUT16 IN OHM*10	3x41016 4x41016 I:41015	65534,0xFFFE B:FF FE			UINT16 R/O	
		Actual measured ohm value of RTDlx:65534=OPEN				
AIOX:RTD INPUTS OHM*1						
RTD INPUT1 IN OHM	3x41017 4x41017 I:41016	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
Current measured RTD in Ohm*1 between 0 and 60000 =0..60000: Current measured resistance in Ohm*1 =65534,0xFFFE: The sensor or cabling is open (broken, not connected, or out of range) =65535,0xFFFF: The channel is not configured as RTD input						
RTD INPUT2 IN OHM	3x41018 4x41018 I:41017	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT3 IN OHM	3x41019 4x41019 I:41018	65535,0xFFFF B:FF FF			UINT16 R/O	

		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT4 IN OHM	3x41020 4x41020 I:41019	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT5 IN OHM	3x41021 4x41021 I:41020	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT6 IN OHM	3x41022 4x41022 I:41021	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT7 IN OHM	3x41023 4x41023 I:41022	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT8 IN OHM	3x41024 4x41024 I:41023	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT9 IN OHM	3x41025 4x41025 I:41024	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT10 IN OHM	3x41026 4x41026 I:41025	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT11 IN OHM	3x41027 4x41027 I:41026	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT12 IN OHM	3x41028 4x41028 I:41027	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT13 IN OHM	3x41029 4x41029 I:41028	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT14 IN OHM	3x41030 4x41030 I:41029	65535,0xFFFF B:FF FF			UINT16 R/O	

		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT15 IN OHM	3x41031 4x41031 I:41030	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT16 IN OHM	3x41032 4x41032 I:41031	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
AIOX:RTD INPUTS OHM/10						
RTD INPUT1 IN OHM/10	3x41033 4x41033 I:41032	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
Current measured RTD in Ohm/10 between 0 and 60000 =0..60000: Current measured resistance in Ohm/10 =65534,0xFFFE: The sensor or cabling is open (broken, not connected, or out of range) =65535,0xFFFF: The channel is not configured as RTD input						
RTD INPUT2 IN OHM/10	3x41034 4x41034 I:41033	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT3 IN OHM/10	3x41035 4x41035 I:41034	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT4 IN OHM/10	3x41036 4x41036 I:41035	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT5 IN OHM/10	3x41037 4x41037 I:41036	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT6 IN OHM/10	3x41038 4x41038 I:41037	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT7 IN OHM/10	3x41039 4x41039 I:41038	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT8 IN OHM/10	3x41040 4x41040 I:41039	65535,0xFFFF B:FF FF			UINT16 R/O	

		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT9 IN OHM/10	3x41041 4x41041 I:41040	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT10 IN OHM/10	3x41042 4x41042 I:41041	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT11 IN OHM/10	3x41043 4x41043 I:41042	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT12 IN OHM/10	3x41044 4x41044 I:41043	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT13 IN OHM/10	3x41045 4x41045 I:41044	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT14 IN OHM/10	3x41046 4x41046 I:41045	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT15 IN OHM/10	3x41047 4x41047 I:41046	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
RTD INPUT16 IN OHM/10	3x41048 4x41048 I:41047	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured ohm value of RTDlx:65535=N/V				
AIOX:RTD INPUTS PT100 CELSIUS						
RTD INPUT1 AS PT100 IN CELSIUS	3x41049 4x41049 I:41048	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
Current measured RTD sensor value linearized as PT100 sensor in Celsius*100 in the range of -5000 to +13000 for -50.0 to +130.0 °C -32766,0x8002: Measured value is below -50°C -32767,0x8001: Measured value is above +130°C -32768,0x8000: The channel is not configured as RTD input						
RTD INPUT2 AS PT100 IN CELSIUS	3x41050 4x41050 I:41049	-32768,0x8000 B:80 00			SINT16 R/O	

		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT3 AS PT100 IN CELSIUS	3x41051 4x41051 I:41050	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT4 AS PT100 IN CELSIUS	3x41052 4x41052 I:41051	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT5 AS PT100 IN CELSIUS	3x41053 4x41053 I:41052	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT6 AS PT100 IN CELSIUS	3x41054 4x41054 I:41053	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT7 AS PT100 IN CELSIUS	3x41055 4x41055 I:41054	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT8 AS PT100 IN CELSIUS	3x41056 4x41056 I:41055	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT9 AS PT100 IN CELSIUS	3x41057 4x41057 I:41056	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT10 AS PT100 IN CELSIUS	3x41058 4x41058 I:41057	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT11 AS PT100 IN CELSIUS	3x41059 4x41059 I:41058	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT12 AS PT100 IN CELSIUS	3x41060 4x41060 I:41059	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT13 AS PT100 IN CELSIUS	3x41061 4x41061 I:41060	-32768,0x8000 B:80 00			SINT16 R/O	

		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT14 AS PT100 IN CELSIUS	3x41062 4x41062 I:41061	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT15 AS PT100 IN CELSIUS	3x41063 4x41063 I:41062	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT16 AS PT100 IN CELSIUS	3x41064 4x41064 I:41063	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
AIOX:RTD INPUTS PT1000 CELSIUS						
RTD INPUT1 AS PT1000 IN CELSIUS	3x41065 4x41065 I:41064	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
Current measured RTD sensor value linearized as PT1000 sensor in Celsius*100 in the range of -5000 to +13000 for -50.0 to +130.0 °C -32766,0x8002: Measured value is below -50°C -32767,0x8001: Measured value is above +130°C -32768,0x8000: The channel is not configured as RTD input						
RTD INPUT2 AS PT1000 IN CELSIUS	3x41066 4x41066 I:41065	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT3 AS PT1000 IN CELSIUS	3x41067 4x41067 I:41066	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT4 AS PT1000 IN CELSIUS	3x41068 4x41068 I:41067	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT5 AS PT1000 IN CELSIUS	3x41069 4x41069 I:41068	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT6 AS PT1000 IN CELSIUS	3x41070 4x41070 I:41069	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT7 AS PT1000 IN CELSIUS	3x41071 4x41071 I:41070	-32768,0x8000 B:80 00			SINT16 R/O	

		Actual measured PT1000 temperature RTDlx: -32768=N/V				
RTD INPUT8 AS PT1000 IN CELSIUS	3x41072 4x41072 I:41071	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx: -32768=N/V				
RTD INPUT9 AS PT1000 IN CELSIUS	3x41073 4x41073 I:41072	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx: -32768=N/V				
RTD INPUT10 AS PT1000 IN CELSIUS	3x41074 4x41074 I:41073	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx: -32768=N/V				
RTD INPUT11 AS PT1000 IN CELSIUS	3x41075 4x41075 I:41074	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx: -32768=N/V				
RTD INPUT12 AS PT1000 IN CELSIUS	3x41076 4x41076 I:41075	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx: -32768=N/V				
RTD INPUT13 AS PT1000 IN CELSIUS	3x41077 4x41077 I:41076	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx: -32768=N/V				
RTD INPUT14 AS PT1000 IN CELSIUS	3x41078 4x41078 I:41077	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx: -32768=N/V				
RTD INPUT15 AS PT1000 IN CELSIUS	3x41079 4x41079 I:41078	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx: -32768=N/V				
RTD INPUT16 AS PT1000 IN CELSIUS	3x41080 4x41080 I:41079	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx: -32768=N/V				
AIOX:RTD INPUTS NI1000-DIN43760 CELSIUS						
RTD INPUT1 AS NI1000-DIN43760 IN CELSIUS	3x41081 4x41081 I:41080	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx: -32768=N/V				

Current measured RTD sensor value linearized as NI1000-DIN43760 sensor in Celsius*100 in the range of -5000 to +13000 for -50.0 to +130.0 °C

-32766,0x8002: Measured value is below -50°C

-32767,0x8001: Measured value is above +130°C

-32768,0x8000: The channel is not configured as RTD input

RTD INPUT2 AS NI1000-DIN43760 IN CELSIUS	3x41082 4x41082 I:41081	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT3 AS NI1000-DIN43760 IN CELSIUS	3x41083 4x41083 I:41082	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT4 AS NI1000-DIN43760 IN CELSIUS	3x41084 4x41084 I:41083	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT5 AS NI1000-DIN43760 IN CELSIUS	3x41085 4x41085 I:41084	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT6 AS NI1000-DIN43760 IN CELSIUS	3x41086 4x41086 I:41085	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT7 AS NI1000-DIN43760 IN CELSIUS	3x41087 4x41087 I:41086	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT8 AS NI1000-DIN43760 IN CELSIUS	3x41088 4x41088 I:41087	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT9 AS NI1000-DIN43760 IN CELSIUS	3x41089 4x41089 I:41088	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT10 AS NI1000-DIN43760 IN CELSIUS	3x41090 4x41090 I:41089	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT11 AS NI1000-DIN43760 IN CELSIUS	3x41091 4x41091 I:41090	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				

RTD INPUT12 AS NI1000-DIN43760 IN CELSIUS	3x41092 4x41092 I:41091	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT13 AS NI1000-DIN43760 IN CELSIUS	3x41093 4x41093 I:41092	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT14 AS NI1000-DIN43760 IN CELSIUS	3x41094 4x41094 I:41093	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT15 AS NI1000-DIN43760 IN CELSIUS	3x41095 4x41095 I:41094	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT16 AS NI1000-DIN43760 IN CELSIUS	3x41096 4x41096 I:41095	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AIOX:RTD INPUTS PT100 KELVIN						
RTD INPUT1 AS PT100 IN KELVIN	3x41097 4x41097 I:41096	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDlx:65535=655,35°K				
Current measured RTD sensor value linearized as PT100 sensor in Kelvin*100 in the range of 22315 to 40315 for 223.15 to 403.15 °K 65533,0xFFFFD: Measured value is below 223,15°K 65534,0xFFFFE: Measured value is above 403,15°K 65535,0xFFFFF: The channel is not configured as RTD input						
RTD INPUT2 AS PT100 IN KELVIN	3x41098 4x41098 I:41097	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDlx:65535=655,35°K				
RTD INPUT3 AS PT100 IN KELVIN	3x41099 4x41099 I:41098	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDlx:65535=655,35°K				
RTD INPUT4 AS PT100 IN KELVIN	3x41100 4x41100 I:41099	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDlx:65535=655,35°K				
RTD INPUT5 AS PT100 IN KELVIN	3x41101 4x41101 I:41100	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDlx:65535=655,35°K				

RTD INPUT6 AS PT100 IN KELVIN	3x41102 4x41102 I:41101	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDIx:65535=655,35°K				
RTD INPUT7 AS PT100 IN KELVIN	3x41103 4x41103 I:41102	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDIx:65535=655,35°K				
RTD INPUT8 AS PT100 IN KELVIN	3x41104 4x41104 I:41103	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDIx:65535=655,35°K				
RTD INPUT9 AS PT100 IN KELVIN	3x41105 4x41105 I:41104	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDIx:65535=655,35°K				
RTD INPUT10 AS PT100 IN KELVIN	3x41106 4x41106 I:41105	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDIx:65535=655,35°K				
RTD INPUT11 AS PT100 IN KELVIN	3x41107 4x41107 I:41106	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDIx:65535=655,35°K				
RTD INPUT12 AS PT100 IN KELVIN	3x41108 4x41108 I:41107	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDIx:65535=655,35°K				
RTD INPUT13 AS PT100 IN KELVIN	3x41109 4x41109 I:41108	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDIx:65535=655,35°K				
RTD INPUT14 AS PT100 IN KELVIN	3x41110 4x41110 I:41109	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDIx:65535=655,35°K				
RTD INPUT15 AS PT100 IN KELVIN	3x41111 4x41111 I:41110	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDIx:65535=655,35°K				
RTD INPUT16 AS PT100 IN KELVIN	3x41112 4x41112 I:41111	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT100 temperature RTDIx:65535=655,35°K				

AIOX:RTD INPUTS PT1000 KELVIN						
RTD INPUT1 AS PT1000 IN KELVIN	3x41113 4x41113 I:41112	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				
Current measured RTD sensor value linearized as PT1000 sensor in Kelvin*100 in the range of 22315 to 40315 for 223.15 to 403.15 °K 65533,0xFFFFD: Measured value is below 223,15°K 65534,0xFFFFE: Measured value is above 403,15°K 65535,0xFFFFF: The channel is not configured as RTD input						
RTD INPUT2 AS PT1000 IN KELVIN	3x41114 4x41114 I:41113	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				
RTD INPUT3 AS PT1000 IN KELVIN	3x41115 4x41115 I:41114	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				
RTD INPUT4 AS PT1000 IN KELVIN	3x41116 4x41116 I:41115	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				
RTD INPUT5 AS PT1000 IN KELVIN	3x41117 4x41117 I:41116	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				
RTD INPUT6 AS PT1000 IN KELVIN	3x41118 4x41118 I:41117	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				
RTD INPUT7 AS PT1000 IN KELVIN	3x41119 4x41119 I:41118	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				
RTD INPUT8 AS PT1000 IN KELVIN	3x41120 4x41120 I:41119	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				
RTD INPUT9 AS PT1000 IN KELVIN	3x41121 4x41121 I:41120	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				
RTD INPUT10 AS PT1000 IN KELVIN	3x41122 4x41122 I:41121	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				

RTD INPUT11 AS PT1000 IN KELVIN	3x41123 4x41123 I:41122	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				
RTD INPUT12 AS PT1000 IN KELVIN	3x41124 4x41124 I:41123	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				
RTD INPUT13 AS PT1000 IN KELVIN	3x41125 4x41125 I:41124	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				
RTD INPUT14 AS PT1000 IN KELVIN	3x41126 4x41126 I:41125	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				
RTD INPUT15 AS PT1000 IN KELVIN	3x41127 4x41127 I:41126	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				
RTD INPUT16 AS PT1000 IN KELVIN	3x41128 4x41128 I:41127	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured PT1000 temperature RTDlx:65535=655,35°K				
AIOX:RTD INPUTS NI1000-DIN43760 KELVIN						
RTD INPUT1 AS NI1000-DIN43760 IN KELVIN	3x41129 4x41129 I:41128	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
Current measured RTD sensor value linearized as NI1000-DIN43760 sensor in Kelvin*100 in the range of 22315 to 40315 for 223.15 to 403.15 °K 65533,0xFFFFD: Measured value is below 223,15°K 65534,0xFFFFE: Measured value is above 403,15°K 65535,0xFFFFF: The channel is not configured as RTD input						
RTD INPUT2 AS NI1000-DIN43760 IN KELVIN	3x41130 4x41130 I:41129	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
RTD INPUT3 AS NI1000-DIN43760 IN KELVIN	3x41131 4x41131 I:41130	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
RTD INPUT4 AS NI1000-DIN43760 IN KELVIN	3x41132 4x41132 I:41131	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				

RTD INPUT5 AS NI1000-DIN43760 IN KELVIN	3x41133 4x41133 I:41132	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
RTD INPUT6 AS NI1000-DIN43760 IN KELVIN	3x41134 4x41134 I:41133	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
RTD INPUT7 AS NI1000-DIN43760 IN KELVIN	3x41135 4x41135 I:41134	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
RTD INPUT8 AS NI1000-DIN43760 IN KELVIN	3x41136 4x41136 I:41135	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
RTD INPUT9 AS NI1000-DIN43760 IN KELVIN	3x41137 4x41137 I:41136	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
RTD INPUT10 AS NI1000-DIN43760 IN KELVIN	3x41138 4x41138 I:41137	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
RTD INPUT11 AS NI1000-DIN43760 IN KELVIN	3x41139 4x41139 I:41138	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
RTD INPUT12 AS NI1000-DIN43760 IN KELVIN	3x41140 4x41140 I:41139	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
RTD INPUT13 AS NI1000-DIN43760 IN KELVIN	3x41141 4x41141 I:41140	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
RTD INPUT14 AS NI1000-DIN43760 IN KELVIN	3x41142 4x41142 I:41141	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
RTD INPUT15 AS NI1000-DIN43760 IN KELVIN	3x41143 4x41143 I:41142	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				

RTD INPUT16 AS NI1000-DIN43760 IN KELVIN	3x41144 4x41144 I:41143	65535,0xFFFF B:FF FF			UINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
AIOX:RTD INPUTS PT100 FAHRENHEIT						
RTD INPUT1 AS PT100 IN FAHRENHEIT	3x41145 4x41145 I:41144	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
Current measured RTD sensor value linearized as PT100 sensor in Fahrenheit*100 in the range of -5800 to +26600 for -58.0 to +266.0 °F -32766,0x8002: Measured value is below -58°C -32767,0x8001: Measured value is above +266°C -32768,0x8000: The channel is not configured as RTD input						
RTD INPUT2 AS PT100 IN FAHRENHEIT	3x41146 4x41146 I:41145	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT3 AS PT100 IN FAHRENHEIT	3x41147 4x41147 I:41146	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT4 AS PT100 IN FAHRENHEIT	3x41148 4x41148 I:41147	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT5 AS PT100 IN FAHRENHEIT	3x41149 4x41149 I:41148	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT6 AS PT100 IN FAHRENHEIT	3x41150 4x41150 I:41149	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT7 AS PT100 IN FAHRENHEIT	3x41151 4x41151 I:41150	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT8 AS PT100 IN FAHRENHEIT	3x41152 4x41152 I:41151	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				
RTD INPUT9 AS PT100 IN FAHRENHEIT	3x41153 4x41153 I:41152	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDlx:-32768=N/V				

RTD INPUT10 AS PT100 IN FAHRENHEIT	3x41154 4x41154 I:41153	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDIx:-32768=N/V				
RTD INPUT11 AS PT100 IN FAHRENHEIT	3x41155 4x41155 I:41154	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDIx:-32768=N/V				
RTD INPUT12 AS PT100 IN FAHRENHEIT	3x41156 4x41156 I:41155	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDIx:-32768=N/V				
RTD INPUT13 AS PT100 IN FAHRENHEIT	3x41157 4x41157 I:41156	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDIx:-32768=N/V				
RTD INPUT14 AS PT100 IN FAHRENHEIT	3x41158 4x41158 I:41157	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDIx:-32768=N/V				
RTD INPUT15 AS PT100 IN FAHRENHEIT	3x41159 4x41159 I:41158	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDIx:-32768=N/V				
RTD INPUT16 AS PT100 IN FAHRENHEIT	3x41160 4x41160 I:41159	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT100 temperature RTDIx:-32768=N/V				
AIOX:RTD INPUTS PT1000 FAHRENHEIT						
RTD INPUT1 AS PT1000 IN FAHRENHEIT	3x41161 4x41161 I:41160	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDIx:-32768=N/V				
Current measured RTD sensor value linearized as PT1000 sensor in Fahrenheit*100 in the range of -5800 to +26600 for -58.0 to +266.0 °F -32766,0x8002: Measured value is below -58°C -32767,0x8001: Measured value is above +266°C -32768,0x8000: The channel is not configured as RTD input						
RTD INPUT2 AS PT1000 IN FAHRENHEIT	3x41162 4x41162 I:41161	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDIx:-32768=N/V				
RTD INPUT3 AS PT1000 IN FAHRENHEIT	3x41163 4x41163 I:41162	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDIx:-32768=N/V				

RTD INPUT4 AS PT1000 IN FAHRENHEIT	3x41164 4x41164 I:41163	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT5 AS PT1000 IN FAHRENHEIT	3x41165 4x41165 I:41164	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT6 AS PT1000 IN FAHRENHEIT	3x41166 4x41166 I:41165	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT7 AS PT1000 IN FAHRENHEIT	3x41167 4x41167 I:41166	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT8 AS PT1000 IN FAHRENHEIT	3x41168 4x41168 I:41167	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT9 AS PT1000 IN FAHRENHEIT	3x41169 4x41169 I:41168	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT10 AS PT1000 IN FAHRENHEIT	3x41170 4x41170 I:41169	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT11 AS PT1000 IN FAHRENHEIT	3x41171 4x41171 I:41170	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT12 AS PT1000 IN FAHRENHEIT	3x41172 4x41172 I:41171	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT13 AS PT1000 IN FAHRENHEIT	3x41173 4x41173 I:41172	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT14 AS PT1000 IN FAHRENHEIT	3x41174 4x41174 I:41173	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				

RTD INPUT15 AS PT1000 IN FAHRENHEIT	3x41175 4x41175 I:41174	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
RTD INPUT16 AS PT1000 IN FAHRENHEIT	3x41176 4x41176 I:41175	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured PT1000 temperature RTDlx:-32768=N/V				
AIOX:RTD INPUTS NI1000-DIN43760 FAHRENHEIT						
RTD INPUT1 AS NI1000-DIN43760 IN FAHRENHEIT	3x41177 4x41177 I:41176	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
Current measured RTD sensor value linearized as NI1000-DIN43760 sensor in Fahrenheit*100 in the range of -5800 to +26600 for -58.0 to +266.0 °F -32766,0x8002: Measured value is below -58°C -32767,0x8001: Measured value is above +266°C -32768,0x8000: The channel is not configured as RTD input						
RTD INPUT2 AS NI1000-DIN43760 IN FAHRENHEIT	3x41178 4x41178 I:41177	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT3 AS NI1000-DIN43760 IN FAHRENHEIT	3x41179 4x41179 I:41178	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT4 AS NI1000-DIN43760 IN FAHRENHEIT	3x41180 4x41180 I:41179	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT5 AS NI1000-DIN43760 IN FAHRENHEIT	3x41181 4x41181 I:41180	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT6 AS NI1000-DIN43760 IN FAHRENHEIT	3x41182 4x41182 I:41181	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT7 AS NI1000-DIN43760 IN FAHRENHEIT	3x41183 4x41183 I:41182	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT8 AS NI1000-DIN43760 IN FAHRENHEIT	3x41184 4x41184 I:41183	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				

RTD INPUT9 AS NI1000-DIN43760 IN FAHRENHEIT	3x41185 4x41185 I:41184	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT10 AS NI1000-DIN43760 IN FAHRENHEIT	3x41186 4x41186 I:41185	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT11 AS NI1000-DIN43760 IN FAHRENHEIT	3x41187 4x41187 I:41186	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT12 AS NI1000-DIN43760 IN FAHRENHEIT	3x41188 4x41188 I:41187	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT13 AS NI1000-DIN43760 IN FAHRENHEIT	3x41189 4x41189 I:41188	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT14 AS NI1000-DIN43760 IN FAHRENHEIT	3x41190 4x41190 I:41189	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT15 AS NI1000-DIN43760 IN FAHRENHEIT	3x41191 4x41191 I:41190	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
RTD INPUT16 AS NI1000-DIN43760 IN FAHRENHEIT	3x41192 4x41192 I:41191	-32768,0x8000 B:80 00			SINT16 R/O	
		Actual measured NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AIOX:RTD INPUTS OHM*100						
RTD INPUT1 IN OHM*100	3x41501 4x41501 I:41500	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDlx:-1=N/V				
Current measured RTD in Ohm*100 =0xFFFFFFFF: The channel is not configured as RTD input						
RTD INPUT2 IN OHM*100	3x41503 4x41503 I:41502	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDlx:-1=N/V				

RTD INPUT3 IN OHM*100	3x41505 4x41505 I:41504	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT4 IN OHM*100	3x41507 4x41507 I:41506	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT5 IN OHM*100	3x41509 4x41509 I:41508	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT6 IN OHM*100	3x41511 4x41511 I:41510	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT7 IN OHM*100	3x41513 4x41513 I:41512	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT8 IN OHM*100	3x41515 4x41515 I:41514	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT9 IN OHM*100	3x41517 4x41517 I:41516	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT10 IN OHM*100	3x41519 4x41519 I:41518	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT11 IN OHM*100	3x41521 4x41521 I:41520	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT12 IN OHM*100	3x41523 4x41523 I:41522	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT13 IN OHM*100	3x41525 4x41525 I:41524	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDIx:-1=N/V				

RTD INPUT14 IN OHM*100	3x41527 4x41527 I:41526	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDlx:-1=N/V				
RTD INPUT15 IN OHM*100	3x41529 4x41529 I:41528	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDlx:-1=N/V				
RTD INPUT16 IN OHM*100	3x41531 4x41531 I:41530	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Actual measured ohm value of RTDlx:-1=N/V				
AIOX:RTD INPUTS OHM*100						
RTD INPUT1 IN OHM*100	3x41533 4x41533 I:41532	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDlx:-1=N/V				
Current measured RTD in Ohm*100 =0xFFFFFFFF: The channel is not configured as RTD input						
RTD INPUT2 IN OHM*100	3x41535 4x41535 I:41534	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDlx:-1=N/V				
RTD INPUT3 IN OHM*100	3x41537 4x41537 I:41536	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDlx:-1=N/V				
RTD INPUT4 IN OHM*100	3x41539 4x41539 I:41538	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDlx:-1=N/V				
RTD INPUT5 IN OHM*100	3x41541 4x41541 I:41540	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDlx:-1=N/V				
RTD INPUT6 IN OHM*100	3x41543 4x41543 I:41542	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDlx:-1=N/V				
RTD INPUT7 IN OHM*100	3x41545 4x41545 I:41544	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDlx:-1=N/V				

RTD INPUT8 IN OHM*100	3x41547 4x41547 I:41546	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT9 IN OHM*100	3x41549 4x41549 I:41548	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT10 IN OHM*100	3x41551 4x41551 I:41550	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT11 IN OHM*100	3x41553 4x41553 I:41552	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT12 IN OHM*100	3x41555 4x41555 I:41554	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT13 IN OHM*100	3x41557 4x41557 I:41556	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT14 IN OHM*100	3x41559 4x41559 I:41558	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT15 IN OHM*100	3x41561 4x41561 I:41560	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDIx:-1=N/V				
RTD INPUT16 IN OHM*100	3x41563 4x41563 I:41562	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Actual measured ohm value of RTDIx:-1=N/V				

Register NAME Command NAME	MODBUS Register ASCII Command	Register VALUE ASCII Command	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
AIOX:AVERAGE RTD INPUTS OHM*10						
AVERAGE RTD INPUT1 IN OHM*10	3x42001 4x42001 I:42000	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDIdx:65535=N/V				
Measured average RTD in Ohm*10 between 0 and 600000 =0..60000: Measured average resistance in Ohm*10 =65534,0xFFFF: The sensor or cabling is open (broken, not connected, or out of range) =65535,0xFFFF: The channel is not configured as RTD input						
AVERAGE RTD INPUT2 IN OHM*10	3x42002 4x42002 I:42001	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDIdx:65535=N/V				
AVERAGE RTD INPUT3 IN OHM*10	3x42003 4x42003 I:42002	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDIdx:65535=N/V				
AVERAGE RTD INPUT4 IN OHM*10	3x42004 4x42004 I:42003	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDIdx:65535=N/V				
AVERAGE RTD INPUT5 IN OHM*10	3x42005 4x42005 I:42004	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDIdx:65535=N/V				
AVERAGE RTD INPUT6 IN OHM*10	3x42006 4x42006 I:42005	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDIdx:65535=N/V				
AVERAGE RTD INPUT7 IN OHM*10	3x42007 4x42007 I:42006	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDIdx:65535=N/V				
AVERAGE RTD INPUT8 IN OHM*10	3x42008 4x42008 I:42007	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDIdx:65535=N/V				
AVERAGE RTD INPUT9 IN OHM*10	3x42009 4x42009 I:42008	65535,0xFFFF B:FF FF			UINT16 R/O	

		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT10 IN OHM*10	3x42010 4x42010 l:42009	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT11 IN OHM*10	3x42011 4x42011 l:42010	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT12 IN OHM*10	3x42012 4x42012 l:42011	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT13 IN OHM*10	3x42013 4x42013 l:42012	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT14 IN OHM*10	3x42014 4x42014 l:42013	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT15 IN OHM*10	3x42015 4x42015 l:42014	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT16 IN OHM*10	3x42016 4x42016 l:42015	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AIOX:AVERAGE RTD INPUTS OHM*1						
AVERAGE RTD INPUT1 IN OHM	3x42017 4x42017 l:42016	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
Measured average RTD in Ohm*1 between 0 and 60000 =0..60000: Measured average resistance in Ohm*1 =65534,0xFFFE: The sensor or cabling is open (broken, not connected, or out of range) =65535,0xFFFF: The channel is not configured as RTD input						
AVERAGE RTD INPUT2 IN OHM	3x42018 4x42018 l:42017	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT3 IN OHM	3x42019 4x42019 l:42018	65535,0xFFFF B:FF FF			UINT16 R/O	

		Measured average ohm value of RTDix:65535=N/V				
AVERAGE RTD INPUT4 IN OHM	3x42020 4x42020 I:42019	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDix:65535=N/V				
AVERAGE RTD INPUT5 IN OHM	3x42021 4x42021 I:42020	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDix:65535=N/V				
AVERAGE RTD INPUT6 IN OHM	3x42022 4x42022 I:42021	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDix:65535=N/V				
AVERAGE RTD INPUT7 IN OHM	3x42023 4x42023 I:42022	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDix:65535=N/V				
AVERAGE RTD INPUT8 IN OHM	3x42024 4x42024 I:42023	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDix:65535=N/V				
AVERAGE RTD INPUT9 IN OHM	3x42025 4x42025 I:42024	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDix:65535=N/V				
AVERAGE RTD INPUT10 IN OHM	3x42026 4x42026 I:42025	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDix:65535=N/V				
AVERAGE RTD INPUT11 IN OHM	3x42027 4x42027 I:42026	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDix:65535=N/V				
AVERAGE RTD INPUT12 IN OHM	3x42028 4x42028 I:42027	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDix:65535=N/V				
AVERAGE RTD INPUT13 IN OHM	3x42029 4x42029 I:42028	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDix:65535=N/V				
AVERAGE RTD INPUT14 IN OHM	3x42030 4x42030 I:42029	65535,0xFFFF B:FF FF			UINT16 R/O	

		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT15 IN OHM	3x42031 4x42031 I:42030	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT16 IN OHM	3x42032 4x42032 I:42031	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AIOX:AVERAGE RTD INPUTS OHM/10						
AVERAGE RTD INPUT1 IN OHM/10	3x42033 4x42033 I:42032	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
Measured average RTD in Ohm/10 between 0 and 60000 =0..60000: Measured average resistance in Ohm/10 =65534,0xFFFE: The sensor or cabling is open (broken, not connected, or out of range) =65535,0xFFFF: The channel is not configured as RTD input						
AVERAGE RTD INPUT2 IN OHM/10	3x42034 4x42034 I:42033	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT3 IN OHM/10	3x42035 4x42035 I:42034	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT4 IN OHM/10	3x42036 4x42036 I:42035	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT5 IN OHM/10	3x42037 4x42037 I:42036	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT6 IN OHM/10	3x42038 4x42038 I:42037	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT7 IN OHM/10	3x42039 4x42039 I:42038	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT8 IN OHM/10	3x42040 4x42040 I:42039	65535,0xFFFF B:FF FF			UINT16 R/O	

		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT9 IN OHM/10	3x42041 4x42041 I:42040	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT10 IN OHM/10	3x42042 4x42042 I:42041	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT11 IN OHM/10	3x42043 4x42043 I:42042	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT12 IN OHM/10	3x42044 4x42044 I:42043	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT13 IN OHM/10	3x42045 4x42045 I:42044	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT14 IN OHM/10	3x42046 4x42046 I:42045	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT15 IN OHM/10	3x42047 4x42047 I:42046	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AVERAGE RTD INPUT16 IN OHM/10	3x42048 4x42048 I:42047	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average ohm value of RTDlx:65535=N/V				
AIOX:AVERAGE RTD INPUTS PT100 CELSIUS						
AVERAGE RTD INPUT1 AS PT100 IN CELSIUS	3x42049 4x42049 I:42048	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
Calculated average value of RTD sensor value linearized as PT100 sensor in Celsius*100 in the range of -5000 to +13000 for -50.0 to +130.0 °C -32766,0x8002: Measured value is below -50°C -32767,0x8001: Measured value is above +130°C -32768,0x8000: The channel is not configured as RTD input						
AVERAGE RTD INPUT2 AS PT100 IN CELSIUS	3x42050 4x42050 I:42049	-32768,0x8000 B:80 00			SINT16 R/O	

		Measured average PT100 temperature RTDix:-32768=N/V				
AVERAGE RTD INPUT3 AS PT100 IN CELSIUS	3x42051 4x42051 I:42050	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDix:-32768=N/V				
AVERAGE RTD INPUT4 AS PT100 IN CELSIUS	3x42052 4x42052 I:42051	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDix:-32768=N/V				
AVERAGE RTD INPUT5 AS PT100 IN CELSIUS	3x42053 4x42053 I:42052	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDix:-32768=N/V				
AVERAGE RTD INPUT6 AS PT100 IN CELSIUS	3x42054 4x42054 I:42053	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDix:-32768=N/V				
AVERAGE RTD INPUT7 AS PT100 IN CELSIUS	3x42055 4x42055 I:42054	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDix:-32768=N/V				
AVERAGE RTD INPUT8 AS PT100 IN CELSIUS	3x42056 4x42056 I:42055	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDix:-32768=N/V				
AVERAGE RTD INPUT9 AS PT100 IN CELSIUS	3x42057 4x42057 I:42056	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDix:-32768=N/V				
AVERAGE RTD INPUT10 AS PT100 IN CELSIUS	3x42058 4x42058 I:42057	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDix:-32768=N/V				
AVERAGE RTD INPUT11 AS PT100 IN CELSIUS	3x42059 4x42059 I:42058	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDix:-32768=N/V				
AVERAGE RTD INPUT12 AS PT100 IN CELSIUS	3x42060 4x42060 I:42059	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDix:-32768=N/V				
AVERAGE RTD INPUT13 AS PT100 IN CELSIUS	3x42061 4x42061 I:42060	-32768,0x8000 B:80 00			SINT16 R/O	

		Measured average PT100 temperature RTDlx: -32768=N/V				
AVERAGE RTD INPUT14 AS PT100 IN CELSIUS	3x42062 4x42062 I:42061	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx: -32768=N/V				
AVERAGE RTD INPUT15 AS PT100 IN CELSIUS	3x42063 4x42063 I:42062	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx: -32768=N/V				
AVERAGE RTD INPUT16 AS PT100 IN CELSIUS	3x42064 4x42064 I:42063	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx: -32768=N/V				
AIOX:AVERAGE RTD INPUTS PT1000 CELSIUS						
AVERAGE RTD INPUT1 AS PT1000 IN CELSIUS	3x42065 4x42065 I:42064	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx: -32768=N/V				
Calculated average value of RTD sensor value linearized as PT1000 sensor in Celsius*100 in the range of -5000 to +13000 for -50.0 to +130.0 °C -32766,0x8002: Measured value is below -50°C -32767,0x8001: Measured value is above +130°C -32768,0x8000: The channel is not configured as RTD input						
AVERAGE RTD INPUT2 AS PT1000 IN CELSIUS	3x42066 4x42066 I:42065	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx: -32768=N/V				
AVERAGE RTD INPUT3 AS PT1000 IN CELSIUS	3x42067 4x42067 I:42066	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx: -32768=N/V				
AVERAGE RTD INPUT4 AS PT1000 IN CELSIUS	3x42068 4x42068 I:42067	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx: -32768=N/V				
AVERAGE RTD INPUT5 AS PT1000 IN CELSIUS	3x42069 4x42069 I:42068	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx: -32768=N/V				
AVERAGE RTD INPUT6 AS PT1000 IN CELSIUS	3x42070 4x42070 I:42069	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx: -32768=N/V				
AVERAGE RTD INPUT7 AS PT1000 IN CELSIUS	3x42071 4x42071 I:42070	-32768,0x8000 B:80 00			SINT16 R/O	

		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT8 AS PT1000 IN CELSIUS	3x42072 4x42072 I:42071	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT9 AS PT1000 IN CELSIUS	3x42073 4x42073 I:42072	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT10 AS PT1000 IN CELSIUS	3x42074 4x42074 I:42073	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT11 AS PT1000 IN CELSIUS	3x42075 4x42075 I:42074	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT12 AS PT1000 IN CELSIUS	3x42076 4x42076 I:42075	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT13 AS PT1000 IN CELSIUS	3x42077 4x42077 I:42076	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT14 AS PT1000 IN CELSIUS	3x42078 4x42078 I:42077	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT15 AS PT1000 IN CELSIUS	3x42079 4x42079 I:42078	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT16 AS PT1000 IN CELSIUS	3x42080 4x42080 I:42079	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AIOX:AVERAGE RTD INPUTS NI1000-DIN43760 CELSIUS						
AVERAGE RTD INPUT1 AS NI1000-DIN43760 IN CELSIUS	3x42081 4x42081 I:42080	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				

Calculated average value of RTD sensor value linearized as NI1000-DIN43760 sensor in Celsius*100 in the range of -5000 to +13000 for -50.0 to +130.0 °C

-32766,0x8002: Measured value is below -50°C

-32767,0x8001: Measured value is above +130°C

-32768,0x8000: The channel is not configured as RTD input

AVERAGE RTD INPUT2 AS NI1000-DIN43760 IN CELSIUS	3x42082 4x42082 I:42081	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT3 AS NI1000-DIN43760 IN CELSIUS	3x42083 4x42083 I:42082	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT4 AS NI1000-DIN43760 IN CELSIUS	3x42084 4x42084 I:42083	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT5 AS NI1000-DIN43760 IN CELSIUS	3x42085 4x42085 I:42084	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT6 AS NI1000-DIN43760 IN CELSIUS	3x42086 4x42086 I:42085	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT7 AS NI1000-DIN43760 IN CELSIUS	3x42087 4x42087 I:42086	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT8 AS NI1000-DIN43760 IN CELSIUS	3x42088 4x42088 I:42087	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT9 AS NI1000-DIN43760 IN CELSIUS	3x42089 4x42089 I:42088	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT10 AS NI1000-DIN43760 IN CELSIUS	3x42090 4x42090 I:42089	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT11 AS NI1000-DIN43760 IN CELSIUS	3x42091 4x42091 I:42090	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				

AVERAGE RTD INPUT12 AS NI1000-DIN43760 IN CELSIUS	3x42092 4x42092 I:42091	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDIx:-32768=N/V				
AVERAGE RTD INPUT13 AS NI1000-DIN43760 IN CELSIUS	3x42093 4x42093 I:42092	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDIx:-32768=N/V				
AVERAGE RTD INPUT14 AS NI1000-DIN43760 IN CELSIUS	3x42094 4x42094 I:42093	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDIx:-32768=N/V				
AVERAGE RTD INPUT15 AS NI1000-DIN43760 IN CELSIUS	3x42095 4x42095 I:42094	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDIx:-32768=N/V				
AVERAGE RTD INPUT16 AS NI1000-DIN43760 IN CELSIUS	3x42096 4x42096 I:42095	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDIx:-32768=N/V				
AIOX:AVERAGE RTD INPUTS PT100 KELVIN						
AVERAGE RTD INPUT1 AS PT100 IN KELVIN	3x42097 4x42097 I:42096	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDIx:65535=655,35°K				
Average value of measured RTD sensor linearized as PT100 sensor in Kelvin*100 in the range of 22315 to 40315 for 223.15 to 403.15 °K 65533,0xFFFFD: Measured value is below 223,15°K 65534,0xFFFFE: Measured value is above 403,15°K 65535,0xFFFF: The channel is not configured as RTD input						
AVERAGE RTD INPUT2 AS PT100 IN KELVIN	3x42098 4x42098 I:42097	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDIx:65535=655,35°K				
AVERAGE RTD INPUT3 AS PT100 IN KELVIN	3x42099 4x42099 I:42098	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDIx:65535=655,35°K				
AVERAGE RTD INPUT4 AS PT100 IN KELVIN	3x42100 4x42100 I:42099	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDIx:65535=655,35°K				
AVERAGE RTD INPUT5 AS PT100 IN KELVIN	3x42101 4x42101 I:42100	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDIx:65535=655,35°K				

AVERAGE RTD INPUT6 AS PT100 IN KELVIN	3x42102 4x42102 I:42101	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT7 AS PT100 IN KELVIN	3x42103 4x42103 I:42102	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT8 AS PT100 IN KELVIN	3x42104 4x42104 I:42103	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT9 AS PT100 IN KELVIN	3x42105 4x42105 I:42104	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT10 AS PT100 IN KELVIN	3x42106 4x42106 I:42105	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT11 AS PT100 IN KELVIN	3x42107 4x42107 I:42106	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT12 AS PT100 IN KELVIN	3x42108 4x42108 I:42107	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT13 AS PT100 IN KELVIN	3x42109 4x42109 I:42108	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT14 AS PT100 IN KELVIN	3x42110 4x42110 I:42109	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT15 AS PT100 IN KELVIN	3x42111 4x42111 I:42110	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT16 AS PT100 IN KELVIN	3x42112 4x42112 I:42111	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT100 temperature RTDlx:65535=655,35°K				

AIOX:AVERAGE RTD INPUTS PT1000 KELVIN						
AVERAGE RTD INPUT1 AS PT1000 IN KELVIN	3x42113 4x42113 I:42112	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				
Average value of measured RTD sensor linearized as PT1000 sensor in Kelvin*100 in the range of 22315 to 40315 for 223.15 to 403.15 °K 65533,0xFFFFD: Measured value is below 223,15°K 65534,0xFFFFE: Measured value is above 403,15°K 65535,0xFFFFF: The channel is not configured as RTD input						
AVERAGE RTD INPUT2 AS PT1000 IN KELVIN	3x42114 4x42114 I:42113	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT3 AS PT1000 IN KELVIN	3x42115 4x42115 I:42114	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT4 AS PT1000 IN KELVIN	3x42116 4x42116 I:42115	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT5 AS PT1000 IN KELVIN	3x42117 4x42117 I:42116	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT6 AS PT1000 IN KELVIN	3x42118 4x42118 I:42117	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT7 AS PT1000 IN KELVIN	3x42119 4x42119 I:42118	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT8 AS PT1000 IN KELVIN	3x42120 4x42120 I:42119	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT9 AS PT1000 IN KELVIN	3x42121 4x42121 I:42120	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT10 AS PT1000 IN KELVIN	3x42122 4x42122 I:42121	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				

AVERAGE RTD INPUT11 AS PT1000 IN KELVIN	3x42123 4x42123 I:42122	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT12 AS PT1000 IN KELVIN	3x42124 4x42124 I:42123	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT13 AS PT1000 IN KELVIN	3x42125 4x42125 I:42124	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT14 AS PT1000 IN KELVIN	3x42126 4x42126 I:42125	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT15 AS PT1000 IN KELVIN	3x42127 4x42127 I:42126	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT16 AS PT1000 IN KELVIN	3x42128 4x42128 I:42127	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average PT1000 temperature RTDlx:65535=655,35°K				
AIOX:AVERAGE RTD INPUTS NI1000-DIN43760 KELVIN						
AVERAGE RTD INPUT1 AS NI1000-DIN43760 IN KELVIN	3x42129 4x42129 I:42128	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
Average value of measured RTD sensor linearized as NI1000-DIN43760 sensor in Kelvin*100 in the range of 22315 to 40315 for 223.15 to 403.15 °K 65533,0xFFFFD: Measured value is below 223,15°K 65534,0xFFFFE: Measured value is above 403,15°K 65535,0xFFFFF: The channel is not configured as RTD input						
AVERAGE RTD INPUT2 AS NI1000-DIN43760 IN KELVIN	3x42130 4x42130 I:42129	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT3 AS NI1000-DIN43760 IN KELVIN	3x42131 4x42131 I:42130	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT4 AS NI1000-DIN43760 IN KELVIN	3x42132 4x42132 I:42131	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				

AVERAGE RTD INPUT5 AS NI1000-DIN43760 IN KELVIN	3x42133 4x42133 I:42132	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT6 AS NI1000-DIN43760 IN KELVIN	3x42134 4x42134 I:42133	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT7 AS NI1000-DIN43760 IN KELVIN	3x42135 4x42135 I:42134	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT8 AS NI1000-DIN43760 IN KELVIN	3x42136 4x42136 I:42135	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT9 AS NI1000-DIN43760 IN KELVIN	3x42137 4x42137 I:42136	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT10 AS NI1000-DIN43760 IN KELVIN	3x42138 4x42138 I:42137	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT11 AS NI1000-DIN43760 IN KELVIN	3x42139 4x42139 I:42138	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT12 AS NI1000-DIN43760 IN KELVIN	3x42140 4x42140 I:42139	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT13 AS NI1000-DIN43760 IN KELVIN	3x42141 4x42141 I:42140	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT14 AS NI1000-DIN43760 IN KELVIN	3x42142 4x42142 I:42141	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
AVERAGE RTD INPUT15 AS NI1000-DIN43760 IN KELVIN	3x42143 4x42143 I:42142	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				

AVERAGE RTD INPUT16 AS NI1000-DIN43760 IN KELVIN	3x42144 4x42144 I:42143	65535,0xFFFF B:FF FF			UINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:65535=655,35°K				
AIOX:AVERAGE RTD INPUTS PT100 FAHRENHEIT						
AVERAGE RTD INPUT1 AS PT100 IN FAHRENHEIT	3x42145 4x42145 I:42144	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
Average value of measured RTD sensor value linearized as PT100 sensor in Fahrenheit*100 in the range of -5800 to +26600 for -58.0 to +266.0 °F -32766,0x8002: Measured value is below -58°C -32767,0x8001: Measured value is above +266°C -32768,0x8000: The channel is not configured as RTD input						
AVERAGE RTD INPUT2 AS PT100 IN FAHRENHEIT	3x42146 4x42146 I:42145	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT3 AS PT100 IN FAHRENHEIT	3x42147 4x42147 I:42146	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT4 AS PT100 IN FAHRENHEIT	3x42148 4x42148 I:42147	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT5 AS PT100 IN FAHRENHEIT	3x42149 4x42149 I:42148	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT6 AS PT100 IN FAHRENHEIT	3x42150 4x42150 I:42149	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT7 AS PT100 IN FAHRENHEIT	3x42151 4x42151 I:42150	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT8 AS PT100 IN FAHRENHEIT	3x42152 4x42152 I:42151	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT9 AS PT100 IN FAHRENHEIT	3x42153 4x42153 I:42152	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				

AVERAGE RTD INPUT10 AS PT100 IN FAHRENHEIT	3x42154 4x42154 I:42153	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT11 AS PT100 IN FAHRENHEIT	3x42155 4x42155 I:42154	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT12 AS PT100 IN FAHRENHEIT	3x42156 4x42156 I:42155	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT13 AS PT100 IN FAHRENHEIT	3x42157 4x42157 I:42156	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT14 AS PT100 IN FAHRENHEIT	3x42158 4x42158 I:42157	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT15 AS PT100 IN FAHRENHEIT	3x42159 4x42159 I:42158	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT16 AS PT100 IN FAHRENHEIT	3x42160 4x42160 I:42159	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT100 temperature RTDlx:-32768=N/V				
AIOX:AVERAGE RTD INPUTS PT1000 FAHRENHEIT						
AVERAGE RTD INPUT1 AS PT1000 IN FAHRENHEIT	3x42161 4x42161 I:42160	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
Average value of measured RTD sensor value linearized as PT1000 sensor in Fahrenheit*100 in the range of -5800 to +26600 for -58.0 to +266.0 °F -32766,0x8002: Measured value is below -58°C -32767,0x8001: Measured value is above +266°C -32768,0x8000: The channel is not configured as RTD input						
AVERAGE RTD INPUT2 AS PT1000 IN FAHRENHEIT	3x42162 4x42162 I:42161	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT3 AS PT1000 IN FAHRENHEIT	3x42163 4x42163 I:42162	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				

AVERAGE RTD INPUT4 AS PT1000 IN FAHRENHEIT	3x42164 4x42164 I:42163	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT5 AS PT1000 IN FAHRENHEIT	3x42165 4x42165 I:42164	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT6 AS PT1000 IN FAHRENHEIT	3x42166 4x42166 I:42165	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT7 AS PT1000 IN FAHRENHEIT	3x42167 4x42167 I:42166	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT8 AS PT1000 IN FAHRENHEIT	3x42168 4x42168 I:42167	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT9 AS PT1000 IN FAHRENHEIT	3x42169 4x42169 I:42168	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT10 AS PT1000 IN FAHRENHEIT	3x42170 4x42170 I:42169	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT11 AS PT1000 IN FAHRENHEIT	3x42171 4x42171 I:42170	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT12 AS PT1000 IN FAHRENHEIT	3x42172 4x42172 I:42171	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT13 AS PT1000 IN FAHRENHEIT	3x42173 4x42173 I:42172	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT14 AS PT1000 IN FAHRENHEIT	3x42174 4x42174 I:42173	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDlx:-32768=N/V				

AVERAGE RTD INPUT15 AS PT1000 IN FAHRENHEIT	3x42175 4x42175 I:42174	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDIx:-32768=N/V				
AVERAGE RTD INPUT16 AS PT1000 IN FAHRENHEIT	3x42176 4x42176 I:42175	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average PT1000 temperature RTDIx:-32768=N/V				
AIOX:AVERAGE RTD INPUTS NI1000-DIN43760 FAHRENHEIT						
AVERAGE RTD INPUT1 AS NI1000-DIN43760 IN FAHRENHEIT	3x42177 4x42177 I:42176	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDIx:-32768=N/V				
Average value of measured RTD sensor value linearized as NI1000-DIN43760 sensor in Fahrenheit*100 in the range of -5800 to +26600 for -58.0 to +266.0 °F -32766,0x8002: Measured value is below -58°C -32767,0x8001: Measured value is above +266°C -32768,0x8000: The channel is not configured as RTD input						
AVERAGE RTD INPUT2 AS NI1000-DIN43760 IN FAHRENHEIT	3x42178 4x42178 I:42177	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDIx:-32768=N/V				
AVERAGE RTD INPUT3 AS NI1000-DIN43760 IN FAHRENHEIT	3x42179 4x42179 I:42178	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDIx:-32768=N/V				
AVERAGE RTD INPUT4 AS NI1000-DIN43760 IN FAHRENHEIT	3x42180 4x42180 I:42179	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDIx:-32768=N/V				
AVERAGE RTD INPUT5 AS NI1000-DIN43760 IN FAHRENHEIT	3x42181 4x42181 I:42180	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDIx:-32768=N/V				
AVERAGE RTD INPUT6 AS NI1000-DIN43760 IN FAHRENHEIT	3x42182 4x42182 I:42181	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDIx:-32768=N/V				
AVERAGE RTD INPUT7 AS NI1000-DIN43760 IN FAHRENHEIT	3x42183 4x42183 I:42182	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDIx:-32768=N/V				
AVERAGE RTD INPUT8 AS NI1000-DIN43760 IN FAHRENHEIT	3x42184 4x42184 I:42183	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDIx:-32768=N/V				

AVERAGE RTD INPUT9 AS NI1000-DIN43760 IN FAHRENHEIT	3x42185 4x42185 I:42184	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT10 AS NI1000-DIN43760 IN FAHRENHEIT	3x42186 4x42186 I:42185	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT11 AS NI1000-DIN43760 IN FAHRENHEIT	3x42187 4x42187 I:42186	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT12 AS NI1000-DIN43760 IN FAHRENHEIT	3x42188 4x42188 I:42187	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT13 AS NI1000-DIN43760 IN FAHRENHEIT	3x42189 4x42189 I:42188	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT14 AS NI1000-DIN43760 IN FAHRENHEIT	3x42190 4x42190 I:42189	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT15 AS NI1000-DIN43760 IN FAHRENHEIT	3x42191 4x42191 I:42190	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				
AVERAGE RTD INPUT16 AS NI1000-DIN43760 IN FAHRENHEIT	3x42192 4x42192 I:42191	-32768,0x8000 B:80 00			SINT16 R/O	
		Measured average NI1000-DIN43760 temperature RTDlx:-32768=N/V				

AIOX:RTD INPUTS OHM*100

AVERAGE RTD INPUT1 IN OHM*100	3x42501 4x42501 I:42500	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDlx:-1=N/V				
Measured average RTD in Ohm*100 =0xFFFFFFFF: The channel is not configured as RTD input						
AVERAGE RTD INPUT2 IN OHM*100	3x42503 4x42503 I:42502	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDlx:-1=N/V				

AVERAGE RTD INPUT3 IN OHM*100	3x42505 4x42505 I:42504	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT4 IN OHM*100	3x42507 4x42507 I:42506	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT5 IN OHM*100	3x42509 4x42509 I:42508	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT6 IN OHM*100	3x42511 4x42511 I:42510	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT7 IN OHM*100	3x42513 4x42513 I:42512	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT8 IN OHM*100	3x42515 4x42515 I:42514	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT9 IN OHM*100	3x42517 4x42517 I:42516	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT10 IN OHM*100	3x42519 4x42519 I:42518	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT11 IN OHM*100	3x42521 4x42521 I:42520	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT12 IN OHM*100	3x42523 4x42523 I:42522	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT13 IN OHM*100	3x42525 4x42525 I:42524	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDix:-1=N/V				

AVERAGE RTD INPUT14 IN OHM*100	3x42527 4x42527 I:42526	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDIx:-1=N/V				
AVERAGE RTD INPUT15 IN OHM*100	3x42529 4x42529 I:42528	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDIx:-1=N/V				
AVERAGE RTD INPUT16 IN OHM*100	3x42531 4x42531 I:42530	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32 R/O	
		Measured average ohm value of RTDIx:-1=N/V				
AIOX:AVERAGE RTD INPUTS OHM*100						
AVERAGE RTD INPUT1 IN OHM*100	3x42533 4x42533 I:42532	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDIx:-1=N/V				
Measured average RTD in Ohm*100 =0xFFFFFFFF: The channel is not configured as RTD input						
AVERAGE RTD INPUT2 IN OHM*100	3x42535 4x42535 I:42534	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDIx:-1=N/V				
AVERAGE RTD INPUT3 IN OHM*100	3x42537 4x42537 I:42536	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDIx:-1=N/V				
AVERAGE RTD INPUT4 IN OHM*100	3x42539 4x42539 I:42538	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDIx:-1=N/V				
AVERAGE RTD INPUT5 IN OHM*100	3x42541 4x42541 I:42540	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDIx:-1=N/V				
AVERAGE RTD INPUT6 IN OHM*100	3x42543 4x42543 I:42542	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDIx:-1=N/V				
AVERAGE RTD INPUT7 IN OHM*100	3x42545 4x42545 I:42544	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDIx:-1=N/V				

AVERAGE RTD INPUT8 IN OHM*100	3x42547 4x42547 I:42546	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT9 IN OHM*100	3x42549 4x42549 I:42548	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT10 IN OHM*100	3x42551 4x42551 I:42550	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT11 IN OHM*100	3x42553 4x42553 I:42552	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT12 IN OHM*100	3x42555 4x42555 I:42554	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT13 IN OHM*100	3x42557 4x42557 I:42556	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT14 IN OHM*100	3x42559 4x42559 I:42558	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT15 IN OHM*100	3x42561 4x42561 I:42560	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDix:-1=N/V				
AVERAGE RTD INPUT16 IN OHM*100	3x42563 4x42563 I:42562	4294967295,0xFFFFFFFF B:FF FF FF FF			UINT32R R/O	
		Measured average ohm value of RTDix:-1=N/V				

Register NAME Command NAME	MODBUS Register ASCII Command	Register VALUE ASCII Command	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
AIOX CHIP TEMPERATURE						
TEMPERATURE CHIP 1 IN CELSIUS	3x43001 4x43001 l:43000	464,0x01D0 B:01 D0			UINT16 R/O	
		Actual measured temperature of CHIPx:46,4°C				
Current measured chip temperature for CHIPx in x*10 °C. Each CHIP supports 4 AIOX channels.						
TEMPERATURE CHIP 2 IN CELSIUS	3x43002 4x43002 l:43001	475,0x01DB B:01 DB			UINT16 R/O	
		Actual measured temperature of CHIPx:47,5°C				
TEMPERATURE CHIP 3 IN CELSIUS	3x43003 4x43003 l:43002	456,0x01C8 B:01 C8			UINT16 R/O	
		Actual measured temperature of CHIPx:45,6°C				
TEMPERATURE CHIP 4 IN CELSIUS	3x43004 4x43004 l:43003	468,0x01D4 B:01 D4			UINT16 R/O	
		Actual measured temperature of CHIPx:46,8°C				
AIOX CHIP TEMPERATURE						
AVERAGE TEMPERATURE CHIP 1 IN CELSIUS	3x43005 4x43005 l:43004	464,0x01D0 B:01 D0			UINT16 R/O	
		Measured average temperature of CHIPx:46,4°C				
Measured average chip temperature for CHIPx in x*10 °C. Each CHIP supports 4 AIOX channels.						
AVERAGE TEMPERATURE CHIP 2 IN CELSIUS	3x43006 4x43006 l:43005	475,0x01DB B:01 DB			UINT16 R/O	
		Measured average temperature of CHIPx:47,5°C				
AVERAGE TEMPERATURE CHIP 3 IN CELSIUS	3x43007 4x43007 l:43006	456,0x01C8 B:01 C8			UINT16 R/O	
		Measured average temperature of CHIPx:45,6°C				
AVERAGE TEMPERATURE CHIP 4 IN CELSIUS	3x43008 4x43008 l:43007	467,0x01D3 B:01 D3			UINT16 R/O	
		Measured average temperature of CHIPx:46,7°C				
AIOX CHIP VOLTAGES						
Vavdd CHIP 1 IN VOLT	3x43009 4x43009 l:43008	146,0x0092 B:00 92			UINT16 R/O	
		Actual measured voltage Vavdd of CHIPx:14,6V				

Current measured voltage Vavdd for CHIPx in x*10 Volts. Each CHIP supports 4 AIOX channels.
This must be >14.5V, if not, there is a severe wiring or other hardware issue!

Vavdd CHIP 2 IN VOLT	3x43010 4x43010 I:43009	146,0x0092 B:00 92		UINT16 R/O	
		Actual measured voltage Vavdd of CHIPx:14,6V			
Vavdd CHIP 3 IN VOLT	3x43011 4x43011 I:43010	146,0x0092 B:00 92		UINT16 R/O	
		Actual measured voltage Vavdd of CHIPx:14,6V			
Vavdd CHIP 4 IN VOLT	3x43012 4x43012 I:43011	146,0x0092 B:00 92		UINT16 R/O	
		Actual measured voltage Vavdd of CHIPx:14,6V			

AIOX CHIP VOLTAGES

AVERAGE Vavdd CHIP 1 IN VOLT	3x43013 4x43013 I:43012	146,0x0092 B:00 92		UINT16 R/O	
		Measured average voltage Vavdd of CHIPx:14,6V			

Current measured voltage Vavdd for CHIPx in x*10 Volts. Each CHIP supports 4 AIOX channels.
This must be >14.5V, if not, there is a severe wiring or other hardware issue!

AVERAGE Vavdd CHIP 2 IN VOLT	3x43014 4x43014 I:43013	146,0x0092 B:00 92		UINT16 R/O	
		Measured average voltage Vavdd of CHIPx:14,6V			
AVERAGE Vavdd CHIP 3 IN VOLT	3x43015 4x43015 I:43014	146,0x0092 B:00 92		UINT16 R/O	
		Measured average voltage Vavdd of CHIPx:14,6V			
AVERAGE Vavdd CHIP 4 IN VOLT	3x43016 4x43016 I:43015	145,0x0091 B:00 91		UINT16 R/O	
		Measured average voltage Vavdd of CHIPx:14,5V			

AIOX CHIP VOLTAGES

Vagnd CHIP 1 IN VOLT	3x43017 4x43017 I:43016	0,0x0000 B:00 00		UINT16 R/O	
		Actual measured voltage Vagnd of CHIPx:0,0V			

Current measured voltage Vagnd for CHIPx in x*10 Volts. Each CHIP supports 4 AIOX channels.
This must be 0V, if not, there is a severe wiring or other hardware issue!

Vagnd CHIP 2 IN VOLT	3x43018 4x43018 I:43017	0,0x0000 B:00 00		UINT16 R/O	
		Actual measured voltage Vagnd of CHIPx:0,0V			

Vagnd CHIP 3 IN VOLT	3x43019 4x43019 I:43018	0,0x0000 B:00 00			UINT16 R/O	
		Actual measured voltage Vagnd of CHIPx:0,0V				
Vagnd CHIP 4 IN VOLT	3x43020 4x43020 I:43019	0,0x0000 B:00 00			UINT16 R/O	
		Actual measured voltage Vagnd of CHIPx:0,0V				
AIOX CHIP VOLTAGES						
AVERAGE Vagnd CHIP 1 IN VOLT	3x43021 4x43021 I:43020	0,0x0000 B:00 00			UINT16 R/O	
		Measured average voltage Vagnd of CHIPx:0,0V				
Current measured voltage Vagnd for CHIPx in x*10 Volts. Each CHIP supports 4 AIOX channels. This must be 0V, if not, there is a severe wiring or other hardware issue!						
AVERAGE Vagnd CHIP 2 IN VOLT	3x43022 4x43022 I:43021	0,0x0000 B:00 00			UINT16 R/O	
		Measured average voltage Vagnd of CHIPx:0,0V				
AVERAGE Vagnd CHIP 3 IN VOLT	3x43023 4x43023 I:43022	0,0x0000 B:00 00			UINT16 R/O	
		Measured average voltage Vagnd of CHIPx:0,0V				
AVERAGE Vagnd CHIP 4 IN VOLT	3x43024 4x43024 I:43023	0,0x0000 B:00 00			UINT16 R/O	
		Measured average voltage Vagnd of CHIPx:0,0V				
AIOX CHIP STATUS						
LIVE STATUS CHIP 1	3x43025 4x43025 I:43024	30720,0x7800 B:78 00			UINT16 R/O	
		Actual live status of CHIPx:7800				

Current live status for CHIPx. Each CHIP supports 4 AIOX channels.
Each result bit stands for a different state:
Bit 0: VI_ERR_CURR_A: Status of channel A:Voltage or current error detected on Channel A. This bit is interpreted differently depending on which of the following IO function selected:
Voltage output: short-circuit error. The error condition is debounced for 2 ms before the status bit is set.
Current output: open circuit error. The error condition is debounced for 2 ms before the status bit is set.
Current input, loop powered: short-circuit error. A short to ground is detected
Current input, externally powered: short-circuit error. A current source >25 mA is detected
Bit 1: VI_ERR_CURR_B: Status of voltage input B. Same like VI_ERR_CURR_A
Bit 2: VI_ERR_CURR_C: Status of voltage input C. Same like VI_ERR_CURR_A
Bit 3: VI_ERR_CURR_D: Status of voltage input D. Same like VI_ERR_CURR_A
Bit 4: HI_TEMP_STATUS: If the die temperature is typically at or above 115°C, the HI_TEMP_STATUS bit is asserted
Bit 5: CHARGE_PUMP_STATUS: Charge pump error detected.
Bit 6: ALDO5V_STATUS: ALDO5V Power Supply Monitor Error. This bit is asserted when the ALDO5V pin falls below 4.05 V. Usually ~5V.
Bit 7: AVDD_STATUS: AVDD Power Supply Monitor Error. This bit is asserted when the AVDD pin falls below 9.26 V. Usually ~17V.
Bit 8: DVCC_STATUS: DVCC Power Supply Monitor Error. This bit is asserted when the DVCC pin falls below 1.93 V. Usually ~3.3V.
Bit 9: ALDO1V8_STATUS: ALDO1V8 Power Supply Monitor Error. This bit is asserted when the ALDO1V8 pin falls below 1.35 V. Usually ~1.8V.
Bit 10-12: ADC_CH_CURR: Current converted channel of the ADC (0:A, 1:B, 2:C, 3:D, 4:Diagnostic 0, 5:Diagnostic 1, 6:Diagnostic 2, 7:Diagnostic 3)
Bit 13: ADC_BUSY: ADC busy status bit.
Bit 14: ADC_DATA_RDY:ADC data ready. The ADC_DATA_RDY bit asserts when a conversion cycle has completed. The bit stays asserted until a user writes 1 to clear the bit. In single conversion mode, the ADC_RDY pin follows the ADC_DATA_RDY bit and only deasserts when the ADC_DATA_RDY bit is cleared. In continuous conversion mode, the ADC_RDY pin returns high after 24 µs.
Bit 15: RESERVED: Reserved

LIVE STATUS CHIP 2	3x43026 4x43026 l:43025	24576,0x6000 B:60 00			UINT16 R/O	
		Actual live status of CHIPx:6000				
LIVE STATUS CHIP 3	3x43027 4x43027 l:43026	28672,0x7000 B:70 00			UINT16 R/O	
		Actual live status of CHIPx:7000				
LIVE STATUS CHIP 4	3x43028 4x43028 l:43027	28672,0x7000 B:70 00			UINT16 R/O	
		Actual live status of CHIPx:7000				
AIOX CHIP STATUS						
ALERT STATUS CHIP 1	3x43029 4x43029 l:43028	33792,0x8400 B:84 00			UINT16 R/O	
		Actual alert status of CHIPx:8400				

Current alert status for CHIPx. Each CHIP supports 4 AIOX channels.
Each result bit stands for a different state:
Bit 0: VI_ERR_CURR_A: Status of channel A:Voltage or current error detected on Channel A. This bit is interpreted differently depending on which of the following IO function selected:
Voltage output: short-circuit error. The error condition is debounced for 2 ms before the status bit is set.
Current output: open circuit error. The error condition is debounced for 2 ms before the status bit is set.
Current input, loop powered: short-circuit error. A short to ground is detected
Current input, externally powered: short-circuit error. A current source >25 mA is detected
Bit 1: VI_ERR_CURR_B: Status of voltage input B. Same like VI_ERR_CURR_A
Bit 2: VI_ERR_CURR_C: Status of voltage input C. Same like VI_ERR_CURR_A
Bit 3: VI_ERR_CURR_D: Status of voltage input D. Same like VI_ERR_CURR_A
Bit 4: HI_TEMP_STATUS: If the die temperature is typically at or above 115°C, the HI_TEMP_STATUS bit is asserted
Bit 5: CHARGE_PUMP_STATUS: Charge pump error detected.
Bit 6: ALDO5V_STATUS: ALDO5V Power Supply Monitor Error. This bit is asserted when the ALDO5V pin falls below 4.05 V. Usually ~5V.
Bit 7: AVDD_STATUS: AVDD Power Supply Monitor Error. This bit is asserted when the AVDD pin falls below 9.26 V. Usually ~17V.
Bit 8: DVCC_STATUS: DVCC Power Supply Monitor Error. This bit is asserted when the DVCC pin falls below 1.93 V. Usually ~3.3V.
Bit 9: ALDO1V8_STATUS: ALDO1V8 Power Supply Monitor Error. This bit is asserted when the ALDO1V8 pin falls below 1.35 V. Usually ~1.8V.
Bit 10: ADC_CONV_ERR: ADC Conversion Error. ADC results may be outside the selected measurement range.
Bit 11: ADC_SAT_ERR: ADC Saturation Error. ADC may be outside the user selected measurement range.
Bit 12: SPI_SCLK_CNT_ERR: SPI SCLK count error detected. This bit is asserted if an SPI command is applied but 32 SCLKs are not provided.
Bit 13: SPI_CRC_ERR: SPI CRC error detected. This bit is asserted if an invalid CRC is received.
Bit 14: CAL_MEM_ERR: Calibration Memory Error. This flag asserts under the following two conditions: When a calibration memory CRC error or an uncorrectable error correcting code (ECC) error is detected on the calibration memory upload.
It is not possible to clear this bit if there is a CRC error or uncorrectable ECC error. It is recommended to reset the device and check the supplies in this situation. When there is an attempted SPI access to a register before the calibration memory refresh is complete. Do not address the device until the calibration memory is refreshed. Writing 1 to this bit clears the flag, if the flag is asserted due to this condition.
Bit 15: RESET_OCCURRED: Reset occurred. This bit is asserted after a reset event, which asserts the ALERT pin after the reset. Write a 1 to this bit to clear the flag. Note that a mask bit is not provided for this bit.

ALERT STATUS CHIP 2	3x43030 4x43030 I:43029	33792,0x8400 B:84 00			UINT16 R/O	
		Actual alert status of CHIPx:8400				
ALERT STATUS CHIP 3	3x43031 4x43031 I:43030	33792,0x8400 B:84 00			UINT16 R/O	
		Actual alert status of CHIPx:8400				
ALERT STATUS CHIP 4	3x43032 4x43032 I:43031	33792,0x8400 B:84 00			UINT16 R/O	
		Actual alert status of CHIPx:8400				
AIOX SPI STATUS						
SPI ERRORS CHIP 1	3x43033 4x43033 I:43032	0,0x0000 B:00 00			UINT16 R/O	
		Actual SPI error counter of CHIPx:0 error(s)				
Current SPI error counter for CHIPx. Each CHIP supports 4 AIOX channels. This command shows the acutal SPI errors since power up for every chip						
SPI ERRORS CHIP 2	3x43034 4x43034 I:43033	0,0x0000 B:00 00			UINT16 R/O	
		Actual SPI error counter of CHIPx:0 error(s)				
SPI ERRORS CHIP 3	3x43035 4x43035 I:43034	0,0x0000 B:00 00			UINT16 R/O	

		Actual SPI error counter of CHIPx:0 error(s)				
SPI ERRORS CHIP 4	3x43036 4x43036 l:43035	0,0x0000 B:00 00			UINT16 R/O	
		Actual SPI error counter of CHIPx:0 error(s)				
AIOX STATE MACHINES						
STATE MACHINE CHIP 1	3x43037 4x43037 l:43036	12070,0x2F26 B:2F 26			UINT16 R/O	
		Actual state of CHIPx:12070				
This command shows the acutal state of the internal communication state machine for CHIPx						
STATE MACHINE CHIP 2	3x43038 4x43038 l:43037	12050,0x2F12 B:2F 12			UINT16 R/O	
		Actual state of CHIPx:12050				
STATE MACHINE CHIP 3	3x43039 4x43039 l:43038	11030,0x2B16 B:2B 16			UINT16 R/O	
		Actual state of CHIPx:11030				
STATE MACHINE CHIP 4	3x43040 4x43040 l:43039	11030,0x2B16 B:2B 16			UINT16 R/O	
		Actual state of CHIPx:11030				
AIOX ONLINE						
IS ONLINE CHIP 1	3x43041 4x43041 l:43040	1,0x0001 B:00 01			UINT16 R/O	
		Is CHIPx online:1=YES				
This command shows the acutal state of the internal communication state machine for CHIPx						
IS ONLINE CHIP 2	3x43042 4x43042 l:43041	1,0x0001 B:00 01			UINT16 R/O	
		Is CHIPx online:1=YES				
IS ONLINE CHIP 3	3x43043 4x43043 l:43042	1,0x0001 B:00 01			UINT16 R/O	
		Is CHIPx online:1=YES				
IS ONLINE CHIP 4	3x43044 4x43044 l:43043	1,0x0001 B:00 01			UINT16 R/O	
		Is CHIPx online:1=YES				
AIOX CLEAR ALARM STATE						
CLEAR ALERT STATES CHIP 1	3x43045 4x43045 l:43044	0,0x0000 B:00 00	65535		UINT16 R/W	YES
		0:VI ERR A		1:RESET FLAG		

		1:VI_ERR_B	1:RESET FLAG		
		2:VI_ERR_C	1:RESET FLAG		
		3:VI_ERR_D	1:RESET FLAG		
		4:HI_TEMP_ERR	1:RESET FLAG		
		5:CHARGE_PUMP_ERR	1:RESET FLAG		
		6:ALDO5V_ERR	1:RESET FLAG		
		7:AVDD_ERR	1:RESET FLAG		
		8:DVCC_ERR	1:RESET FLAG		
		9:ALDO1V8_ERR	1:RESET FLAG		
		10:ADC_CONV_ERR	1:RESET FLAG		
		11:ADC_SAT_ERR	1:RESET FLAG		
		12:SPI_SCLK_ERR	1:RESET FLAG		
		13:SPI_CRC_ERR	1:RESET FLAG		
		14:CAL_MEM_ERR	1:RESET FLAG		
		15:RESET_OCCURED	1:RESET FLAG		
With this command you can reset individual alert bits in the alert status register of CHIPx					
CLEAR ALERT STATES CHIP 2	3x43046 4x43046 I:43045	0,0x0000 B:00 00	65535	UINT16 R/W	YES
		0:VI_ERR_A	1:RESET FLAG		
		1:VI_ERR_B	1:RESET FLAG		
		2:VI_ERR_C	1:RESET FLAG		
		3:VI_ERR_D	1:RESET FLAG		
		4:HI_TEMP_ERR	1:RESET FLAG		
		5:CHARGE_PUMP_ERR	1:RESET FLAG		
		6:ALDO5V_ERR	1:RESET FLAG		
		7:AVDD_ERR	1:RESET FLAG		
		8:DVCC_ERR	1:RESET FLAG		
		9:ALDO1V8_ERR	1:RESET FLAG		
		10:ADC_CONV_ERR	1:RESET FLAG		
		11:ADC_SAT_ERR	1:RESET FLAG		
		12:SPI_SCLK_ERR	1:RESET FLAG		
		13:SPI_CRC_ERR	1:RESET FLAG		
		14:CAL_MEM_ERR	1:RESET FLAG		
		15:RESET_OCCURED	1:RESET FLAG		
With this command you can reset individual alert bits in the alert status register of CHIPx					
CLEAR ALERT STATES CHIP 3	3x43047 4x43047 I:43046	0,0x0000 B:00 00	65535	UINT16 R/W	YES
		0:VI_ERR_A	1:RESET FLAG		
		1:VI_ERR_B	1:RESET FLAG		
		2:VI_ERR_C	1:RESET FLAG		
		3:VI_ERR_D	1:RESET FLAG		
		4:HI_TEMP_ERR	1:RESET FLAG		
		5:CHARGE_PUMP_ERR	1:RESET FLAG		

		6:ALDO5V_ERR	1:RESET FLAG		
		7:AVDD_ERR	1:RESET FLAG		
		8:DVCC_ERR	1:RESET FLAG		
		9:ALDO1V8_ERR	1:RESET FLAG		
		10:ADC_CONV_ERR	1:RESET FLAG		
		11:ADC_SAT_ERR	1:RESET FLAG		
		12:SPI_SCLK_ERR	1:RESET FLAG		
		13:SPI_CRC_ERR	1:RESET FLAG		
		14:CAL_MEM_ERR	1:RESET FLAG		
		15:RESET_OCCURED	1:RESET FLAG		

With this command you can reset individual alert bits in the alert status register of CHIPx

CLEAR ALERT STATES CHIP 4	3x43048 4x43048 I:43047	0,0x0000 B:00 00	65535		UINT16 R/W	YES
		0:VI_ERR_A	1:RESET FLAG			
		1:VI_ERR_B	1:RESET FLAG			
		2:VI_ERR_C	1:RESET FLAG			
		3:VI_ERR_D	1:RESET FLAG			
		4:HI_TEMP_ERR	1:RESET FLAG			
		5:CHARGE_PUMP_ERR	1:RESET FLAG			
		6:ALDO5V_ERR	1:RESET FLAG			
		7:AVDD_ERR	1:RESET FLAG			
		8:DVCC_ERR	1:RESET FLAG			
		9:ALDO1V8_ERR	1:RESET FLAG			
		10:ADC_CONV_ERR	1:RESET FLAG			
		11:ADC_SAT_ERR	1:RESET FLAG			
		12:SPI_SCLK_ERR	1:RESET FLAG			
		13:SPI_CRC_ERR	1:RESET FLAG			
		14:CAL_MEM_ERR	1:RESET FLAG			
		15:RESET_OCCURED	1:RESET FLAG			

With this command you can reset individual alert bits in the alert status register of CHIPx

AIOX RESET STATE MACHINE

RESET CHIP 1 STATE MACHINE	3x43049 4x43049 I:43048	0,0x0000 B:00 00	1	1:RESET STATE MACHINE	UINT16 R/W	YES
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This command restarts the state machine for chip CHIPx . The affected chip will be resetted & initialized completely

RESET CHIP 2 STATE MACHINE	3x43050 4x43050 I:43049	0,0x0000 B:00 00	1	1:RESET STATE MACHINE	UINT16 R/W	YES
RESET CHIP 3 STATE MACHINE	3x43051 4x43051 I:43050	0,0x0000 B:00 00	1	1:RESET STATE MACHINE	UINT16 R/W	YES
RESET CHIP 4 STATE MACHINE	3x43052 4x43052 I:43051	0,0x0000 B:00 00	1	1:RESET STATE MACHINE	UINT16 R/W	YES

Register NAME Command NAME	MODBUS Register ASCII Command	Register VALUE ASCII Command	NEW REAL VALUE	NEW VALUE	DATA TYPE	DO WRITE
AIOX CONFIG OUTPUT VALUES						
CONFIG OUTPUT VALUE AIOX1	3x44001 4x44001 I:44000	65535,0xFFFF B:FF FF	100	1	UINT16 R/W	YES
		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
This command sets for all outputs the standard value in Volt*100 or in mA*100, which are used when the controller is restartet or a watchdog condition has occured and the channel is used as voltage output or current output. For voltage outputs the range is 0 to 1100 (0 to 11,0V). For current outputs the range is 0 to 2500 (0 to 25mA). All IOs with a different usage type will return 65535,0xFFFF.						
CONFIG OUTPUT VALUE AIOX2	3x44002 4x44002 I:44001	65535,0xFFFF B:FF FF	200	2	UINT16 R/W	YES
		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
CONFIG OUTPUT VALUE AIOX3	3x44003 4x44003 I:44002	65535,0xFFFF B:FF FF	300	3	UINT16 R/W	YES
		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
CONFIG OUTPUT VALUE AIOX4	3x44004 4x44004 I:44003	65535,0xFFFF B:FF FF	400	4	UINT16 R/W	YES
		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
CONFIG OUTPUT VALUE AIOX5	3x44005 4x44005 I:44004	65535,0xFFFF B:FF FF	500	5	UINT16 R/W	YES
		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
CONFIG OUTPUT VALUE AIOX6	3x44006 4x44006 I:44005	65535,0xFFFF B:FF FF	600	6	UINT16 R/W	YES
		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
CONFIG OUTPUT VALUE AIOX7	3x44007 4x44007 I:44006	65535,0xFFFF B:FF FF	700	7	UINT16 R/W	YES
		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
CONFIG OUTPUT VALUE AIOX8	3x44008 4x44008 I:44007	65535,0xFFFF B:FF FF	800	8	UINT16 R/W	YES
		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
CONFIG OUTPUT VALUE AIOX9	3x44009 4x44009 I:44008	65535,0xFFFF B:FF FF	900	9	UINT16 R/W	YES

		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
CONFIG OUTPUT VALUE AIOX10	3x44010 4x44010 I:44009	65535,0xFFFF B:FF FF	1000	10	UINT16 R/W	YES
		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
CONFIG OUTPUT VALUE AIOX11	3x44011 4x44011 I:44010	65535,0xFFFF B:FF FF	1100	11	UINT16 R/W	YES
		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
CONFIG OUTPUT VALUE AIOX12	3x44012 4x44012 I:44011	65535,0xFFFF B:FF FF	2500	25	UINT16 R/W	YES
		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
CONFIG OUTPUT VALUE AIOX13	3x44013 4x44013 I:44012	65535,0xFFFF B:FF FF	2500	25	UINT16 R/W	NO
		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
CONFIG OUTPUT VALUE AIOX14	3x44014 4x44014 I:44013	65535,0xFFFF B:FF FF	2500	25	UINT16 R/W	NO
		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
CONFIG OUTPUT VALUE AIOX15	3x44015 4x44015 I:44014	65535,0xFFFF B:FF FF	2500	25	UINT16 R/W	NO
		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
CONFIG OUTPUT VALUE AIOX16	3x44016 4x44016 I:44015	65535,0xFFFF B:FF FF	2500	25	UINT16 R/W	NO
		Actual config value for AIOx:N/A		ENTER NEW CONFIG VALUE FOR AIOx		
INTER PROCESSOR COMMUNICATION						
AIOX IS ONLINE	3x50000 4x50000 I:49999	1,0x0001 B:00 01			UINT16 R/O	
		Actual communication status co-processor to AIOX processor:OK				

This command returns the actual state of the serial communication between the ARM co-processor and the additional processor for the AIOX.
=1: Currently the communication is fine
=0: There is a mayor problem/hardware fault between the two processors