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-6DI6DO4AIOX-SIO<CR>				
		Current module type:RESI-6DI6DO4AIOX-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-6DO6DO4AIOX-SIO,RS485,DI:6,DO:6,DOIC:MAX14915,AIOX:4<CR>				
		Current module type:#1,FTRS:RESI-6DO6DO4AIOX-SIO,RS485,DI:6,DO:6,DOIC:MAX14915,AIOX:4<CR>				
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:84<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		

(C) Copyright 2020-2022 by RESI Informatik & Automation GmbH & DI HC Sigl,MSc

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 serrial 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:39.1902<CR>		
		Current internal temperature of CPU:39.1902°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:3.3708<CR>		
		Current supply voltage of CPU:3.3708V		

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:0.0004<CR>		
		Current backup voltage of CPU:0.0004V		

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	32824,0x8038 B:80 38			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 I: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 I: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 I: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 I: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 communcation watchdog timer. The value is a timespan in 1/100s.
=0: The communcation watchdog is disabled
=1..65535: Communcation watchdog will be trigegred after x 1/100s pause on communcation line

In case of an communcation 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 I: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:28002900145743553534392O				
Serial number of module as 96 bit unsigned integer number						
CPU TEMPERATURE	3x65527 4x65527 I:65526	3903,0x0F3F B:0F 3F			UINT16 R/O	
		Current internal temperature of CPU:39,03°C				
Current internal temperature of CPU in ° Celsius multiplied by 100.						
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 100.						
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 100.						
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).						

(C) Copyright 2020-2022 by RESI Informatik & Automation GmbH & DI HC Sigl,MSc

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:32,0x20<CR>				
		Actual status of digital inputs:10.0000				
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 3: State of DI4 (=0:OFF, =1:ON) Bit 4: State of DI5 (=0:OFF, =1:ON) Bit 5: State of DI6 (=0:OFF, =1:ON)						
GET DIGITAL INPUT DIx	ASCII READ COMMAND	#GDI<DINR><CR> Result: #GDI<DINR>:<DIxDec>,<DIxHex><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..6=DI6						
Returns the actual state of the digital input Dix as decimal number and as hexadecimal number. DIxDec, DIxHex: 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:1,0x1<CR>				
		Actual change counter:1				
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+11Dec>, <ChangeDInHex>,...,<ChangeDIn+11Hex><CR>	ASCII	
	PART	1		
	TX	#1,CADISP1<CR>		
	RX	#1,CADISP1:0,0,0,0,0,1,0x0,0x0,0x0,0x0,0x0,0x1<CR>		
		Actual counter for changes on DI1:0		
		Actual counter for changes on DI2:0		
		Actual counter for changes on DI3:0		
		Actual counter for changes on DI4:0		
		Actual counter for changes on DI5:0		
		Actual counter for changes on DI6:1		
<PART>: 1=DI1-DI6				
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..6=DI6				
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+11Dec>, <ShortKeyDInHex>,...,<ShortKeyDIn+11Hex><CR>	ASCII	
	PART	1		
	TX	#1,SKADISP1<CR>		
	RX	#1,SKADISP1:0,0,0,0,0,0,0x0,0x0,0x0,0x0,0x0,0x0,0x0<CR>		
		Actual counter for short keypress events on DI1:0		
		Actual counter for short keypress events on DI2:0		
		Actual counter for short keypress events on DI3:0		
		Actual counter for short keypress events on DI4:0		

		Actual counter for short keypress events on DI5:0		
		Actual counter for short keypress events on DI6:0		
<PART>: 1=DI1-DI6				
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..6=DI6				
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+11Dec>, <LongKeyStartDInHex>,...,<LongKeyStartDIn+11Hex><CR>	ASCII	
	PART	1		
	TX	#1,LKSADISP1<CR>		
	RX	#1,LKSADISP1:0,0,0,0,0,1,0x0,0x0,0x0,0x0,0x0,0x1<CR>		
		Actual counter for long keypress start events on DI1:0		
		Actual counter for long keypress start events on DI2:0		
		Actual counter for long keypress start events on DI3:0		
		Actual counter for long keypress start events on DI4:0		
		Actual counter for long keypress start events on DI5:0		
		Actual counter for long keypress start events on DI6:1		
<PART>: 1=DI1-DI6				
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..6=DI6				
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+11Dec>, <LongKeyEndDInHex>,...,<LongKeyEndDIn+11Hex><CR>	ASCII	
	PART	1		
	TX	#1,LKEADISP1<CR>		
	RX	#1,LKEADISP1:0,0,0,0,0,0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0<CR>		
		Actual counter for long keypress end events on DI1:0		
		Actual counter for long keypress end events on DI2:0		
		Actual counter for long keypress end events on DI3:0		
		Actual counter for long keypress end events on DI4:0		
		Actual counter for long keypress end events on DI5:0		
		Actual counter for long keypress end events on DI6:0		
<PART>: 1=DI1-DI6				
Returns for each digital input the counter for long keypress end events. As soon as the module detects the end 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 END DIx	ASCII READ COMMAND	#LKEDI<DINR><CR> Result: #LKEDI<DINR>:<LongKeyEndDec>,<LongKeyEndHex><CR>	ASCII	
	DINR	1		
	TX	#1,LKEDI1<CR>		
	RX	#1,LKEDI1:0,0x0<CR>		
		Actual counter for long keypress end events on digital input DI1:0		
<DINR>: 1=DI1..6=DI6				
Returns for digital input <DINR> the counter for long keypress end events. As soon as the module detects the end of a long keypress on a digital input, the counter for the affected digital input is incremented by 1.				
RISE ALL DIS PART x	ASCII READ COMMAND	#RADISP<PART><CR> Result: #RADISP<PART>:<RiseDInDec>,...,<RiseDIn+11Dec>, <RiseDInHex>,...,<RiseDIn+11Hex><CR>	ASCII	
	PART	1		
	TX	#1,RADISP1<CR>		
	RX	#1,RADISP1:0,0,0,0,0,1,0x0,0x0,0x0,0x0,0x0,0x1<CR>		
		Actual counter for rising edges on DI1:0		
		Actual counter for rising edges on DI2:0		
		Actual counter for rising edges on DI3:0		
		Actual counter for rising edges on DI4:0		
		Actual counter for rising edges on DI5:0		
		Actual counter for rising edges on DI6:1		
<PART>: 1=DI1-DI6				
Returns for each digital input the counter for rising edges. As soon as the module detects a rising edge on a digital input, the rising 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.				

RISE DIx	ASCII READ COMMAND	#RDI<DINR><CR> Result: #RDI<DINR>:<RiseDec>,<RiseHex><CR>	ASCII	
	DINR	1		
	TX	#1,RDI1<CR>		
	RX	#1,RDI1:0,0x0<CR>		
		Actual counter for rising edges on digital input DI1:0		
<DINR>: 1=DI1..6=DI6				
Returns for digital input <DINR> the counter for rising edges. As soon as the module detects a rising edge on a digital input, the rising edge counter for the affected digital input is incremented by 1.				
FALL ALL DIS PART x	ASCII READ COMMAND	#FADISP<PART><CR> Result: #FADISP<PART>:<FallDInDec>,...,<FallDIn+11Dec>, <FallDInHex>,...,<FallDIn+11Hex><CR>	ASCII	
	PART	1		
	TX	#1,FADISP1<CR>		
	RX	#1,FADISP1:0,0,0,0,0,0,0x0,0x0,0x0,0x0,0x0,0x0<CR>		
		Actual counter for falling edges on DI1:0		
		Actual counter for falling edges on DI2:0		
		Actual counter for falling edges on DI3:0		
		Actual counter for falling edges on DI4:0		
		Actual counter for falling edges on DI5:0		
		Actual counter for falling edges on DI6:0		
<PART>: 1=DI1-DI6				
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..6=DI6				
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:<AllDISasDec>,<AllDISasHex><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:<AllDISasDec>,<AllDISasHex><CR>				

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	1,0x01 B:01			BIT R/O	
		Actual state of DI6:1=ON				
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	1,0x01 B:01			BIT R/O	
		Actual state of DI6:1=ON				
STATUS DIGITAL INPUTS						
UNFILTERED DI1	1x15007 2x15007 I:15006	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 thie line =0:DI is OFF, =1:DI is ON						
UNFILTERED DI2	1x15008 2x15008 I:15007	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI2:0=OFF				
UNFILTERED DI3	1x15009 2x15009 I:15008	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI3:0=OFF				
UNFILTERED DI4	1x15010 2x15010 I:15009	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI4:0=OFF				
UNFILTERED DI5	1x15011 2x15011 I:15010	0,0x00 B:00			BIT R/O	
		Actual state of UNFILTERED DI5:0=OFF				

(C) Copyright 2020-2022 by RESI Informatik & Automation GmbH & DI HC Sigl,MSc

UNFILTERED DI6	1x15012 2x15012 I:15011	1,0x01 B:01			BIT R/O	
		Actual state of UNFILTERED DI6:1=ON				

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	1,0x01 B:01			BIT R/O	
DIGITAL INPUTS: SHORT KEYPRESS EVENT ON DIGITAL INPUT DETECTED						
SHORT KEYPRESS ON DI1	1x20007 2x20007 I:20006	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	1x20008 2x20008 I:20007	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI3	1x20009 2x20009 I:20008	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI4	1x20010 2x20010 I:20009	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI5	1x20011 2x20011 I:20010	0,0x00 B:00			BIT R/O	
SHORT KEYPRESS ON DI6	1x20012 2x20012 I:20011	0,0x00 B:00			BIT R/O	

(C) Copyright 2020-2022 by RESI Informatik & Automation GmbH & DI HC Sigl,MSc

DIGITAL INPUTS: LONG KEYPRESS START EVENT ON DIGITAL INPUT DETECTED						
LONG KEYPRESS START ON DI1	1x20013 2x20013 I:20012	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	1x20014 2x20014 I:20013	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI3	1x20015 2x20015 I:20014	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI4	1x20016 2x20016 I:20015	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI5	1x20017 2x20017 I:20016	0,0x00 B:00			BIT R/O	
LONG KEYPRESS START ON DI6	1x20018 2x20018 I:20017	1,0x01 B:01			BIT R/O	
DIGITAL INPUTS: LONG KEYPRESS END EVENT ON DIGITAL INPUT DETECTED						
LONG KEYPRESS END ON DI1	1x20019 2x20019 I:20018	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	1x20020 2x20020 I:20019	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI3	1x20021 2x20021 I:20020	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI4	1x20022 2x20022 I:20021	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI5	1x20023 2x20023 I:20022	0,0x00 B:00			BIT R/O	
LONG KEYPRESS END ON DI6	1x20024 2x20024 I:20023	0,0x00 B:00			BIT R/O	
DIGITAL INPUTS: RISING EDGE ON DIGITAL INPUT DETECTED						
RISING EDGE ON DI1	1x20025 2x20025 I:20024	0,0x00 B:00			BIT R/O	
If a rising edge was detected on the digital input this bit inverts its last state						

(C) Copyright 2020-2022 by RESI Informatik & Automation GmbH & DI HC Sigl,MSc

RISING EDGE ON DI2	1x20026 2x20026 I:20025	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI3	1x20027 2x20027 I:20026	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI4	1x20028 2x20028 I:20027	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI5	1x20029 2x20029 I:20028	0,0x00 B:00			BIT R/O	
RISING EDGE ON DI6	1x20030 2x20030 I:20029	1,0x01 B:01			BIT R/O	
DIGITAL INPUTS: FALLING EDGE ON DIGITAL INPUT DETECTED						
FALLING EDGE ON DI1	1x20031 2x20031 I:20030	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	1x20032 2x20032 I:20031	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI3	1x20033 2x20033 I:20032	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI4	1x20034 2x20034 I:20033	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI5	1x20035 2x20035 I:20034	0,0x00 B:00			BIT R/O	
FALLING EDGE ON DI6	1x20036 2x20036 I:20035	0,0x00 B:00			BIT R/O	

(C) Copyright 2020-2022 by RESI Informatik & Automation GmbH & DI HC Sigl,MSc

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	1,0x0001 B:00 01			UINT16 R/O	
		Actual state of DI6:1=ON				
DIGITAL INPUTS: RESET						
RESET COUNTERS	3x10000 4x10000 I:9999	0,0x0000 B:00 00		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	1,0x0001 B:00 01			UINT16 R/O	
		1 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..DI6	3x10002 4x10002 I:10001	32,0x0020 B:00 20			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 DI6:1=ON				
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 4: =0:DI5 is OFF, =1:DI5 is ON Bit 5: =0:DI6 is OFF, =1:DI6 is ON						
STATUS REAL DIGITAL INPUTS						
DI1	3x15001 4x15001 I:15000	0,0x0000 B:00 00			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	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI2:0=OFF				
DI3	3x15003 4x15003 I:15002	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI3:0=OFF				
DI4	3x15004 4x15004 I:15003	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI4:0=OFF				
DI5	3x15005 4x15005 I:15004	0,0x0000 B:00 00			UINT16 R/O	
		Actual state of DI5:0=OFF				
DI6	3x15006 4x15006 I:15005	????			UINT16 R/O	

		Actual state of DI6:0=OFF				
STATUS DIGITAL INPUTS						
UNFILTERED DI1	3x15007 4x15007 I:15006	????			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 thie line =0:DI is OFF, =1:DI is ON						
UNFILTERED DI2	3x15008 4x15008 I:15007	????			UINT16 R/O	
		Actual state of UNFILTERED DI2:0=OFF				
UNFILTERED DI3	3x15009 4x15009 I:15008	????			UINT16 R/O	
		Actual state of UNFILTERED DI3:0=OFF				
UNFILTERED DI4	3x15010 4x15010 I:15009	????			UINT16 R/O	
		Actual state of UNFILTERED DI4:0=OFF				
UNFILTERED DI5	3x15011 4x15011 I:15010	????			UINT16 R/O	
		Actual state of UNFILTERED DI5:0=OFF				
UNFILTERED DI6	3x15012 4x15012 I:15011	????			UINT16 R/O	
		Actual state of UNFILTERED DI6:0=OFF				

(C) Copyright 2020-2022 by RESI Informatik & Automation GmbH & DI HC Sigl,MSc

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 DIx 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 DIx =0: DIx si OFF, =1: DIx 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 DIx 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 DIx =0: DIx si OFF, =1: DIx 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	32801,0x8021 B:80 21			UINT16 R/O	
		DI:1,CC:1,REC:1,FEC:0				
STATUS DI6 B	3x05012 4x05012 I:5011	32800,0x8020 B:80 20			UINT16 R/O	
		DI:1,SKE:0,LKSE:1,LKEE:0				
STATUS						
FILTER PATTERN DI1	3x05013 4x05013 I:5012	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	3x05015 4x05015 I:5014	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI3	3x05017 4x05017 I:5016	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI4	3x05019 4x05019 I:5018	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI5	3x05021 4x05021 I:5020	0,0x00000000 B:00 00 00 00			UINT32 R/O	
FILTER PATTERN DI6	3x05023 4x05023 I:5022	4294967295,0xFFFFFFFF B:FF FF FF FF			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: Detecion 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)				

(C) Copyright 2020-2022 by RESI Informatik & Automation GmbH & DI HC Sigl,MSc

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	

(C) Copyright 2020-2022 by RESI Informatik & Automation GmbH & DI HC Sigl,MSc

		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	1,0x0001 B:00 01			UINT16 R/O	
		1 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	1,0x0001 B:00 01			UINT16 R/O	
		1 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	1,0x0001 B:00 01			UINT16 R/O	
		1 event(s)				
LONG KEYPRESS END DI6	3x07056 4x07056 I:7055	0,0x0000 B:00 00			UINT16 R/O	
		0 event(s)				

(C) Copyright 2020-2022 by RESI Informatik & Automation GmbH & DI HC Sigl,MSc