

CONVERTER STATUS	3x05051 4x05051 I:5050	0,0x0000 B:00 00			UINT16 R/O	
DIP SWITCH	3x10010 4x10010 I:10009	15,0x000F B:00 0F			UINT16 R/O	
Returns the current setting of the Dip switches. For ULTRA SLIM IOs 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)						
SOFTWARE RESET						
RESET	1x06001 2x06001 I:6000	0,0x00 B:00		N/A:NO CHANGE	BIT R/W	YES
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	3x06001 4x06001 I:6000	0,0x0000 B:00 00		N/A:NO CHANGE	UINT16 R/W	YES
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).						
PRODUCT DATA						
HW_GROUP	3x65201 4x65201 I:65200	8336,0x2090 B:20 90			UINT16 R/O	
This is the group of hardware of the current product						
SW_GROUP	3x65202 4x65202 I:65201	4096,0x1000 B:10 00			UINT16 R/O	
This is the group of software of the current product						
SW_VERSION	3x65203 4x65203 I:65202	4352,0x1100 B:11 00			UINT16 R/O	
		SW VERSION:1.1.0				
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	65535,0xFFFF B:FF FF		N/A:NO CHANGE	UINT16 R/W	NO
		UNIT ID:255				

If the host reads this register, the current programmed unit ID is returned. All values above unit ID 255 define also the unit ID 255.
 If the host writes a new value into this register, the new value will be stored in the FLASH as the new unit ID. The new unit ID is activated after a power off/power on cycle or a software reboot of the module.
 The host can execute a reboot in writing to the register RESET SYSTEM.
 NOTE: DIP switch 4 must be set to OFF to activate this unit ID, otherwise the unit ID is 255.

HINT: This settings will be active after you repower or reset your device !!

BAUD_RATE	3x65223 4x65223 I:65222	4294967295,0xFFFFFFFF B:FF FF FF FF	38400	38400	UINT32 R/W	NO
		57600Bd		ENTER BAUD RATE		

This is the current configured baud rate for DIP switch mode DIP1=ON, DIP2=ON (default is 57600bd)

DIP switch settings:
 DIP1-DIP2
 OFF-OFF:9600bd
 ON-OFF:19200bd
 OFF-ON:38400bd
 ON-ON:default 57600bd or the defined baud rate

Valid baud rates are:

300bd
 600bd
 1200bd
 2400bd
 4800bd
 9600bd
 19200bd
 38400bd
 all other:57600bd

HINT: This settings will be active after you repower or reset your device !!

PARITY	3x65225 4x65225 I:65224	65535,0xFFFF B:FF FF		N/A:NO CHANGE	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	3x65226 4x65226 I:65225	65535,0xFFFF B:FF FF		N/A:NO CHANGE	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

GET VERSION	ASCII READ COMMAND	#VERSION<CR> #VER<CR> Result: #VERSION:<VersionHi>,<VersionMed>,<VersionLo><CR>	ASCII	
	TX	#VERSION<CR>		
	RX	#255,VERSION:1.1.0<CR>		
		Current SW version:1.1.0		
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> #TYP<CR> Result: #TYPE:<Type><CR>	ASCII	
	TX	#TYPE<CR>		
	RX	#255,TYPE:RESI-1S0-SIO<CR>		
		Current module type:RESI-1S0-SIO		
Returns the current module type				
GET OWNER	ASCII READ COMMAND	#OWNER<CR> #OWN<CR> Result: #OWNER:<Owner><CR>	ASCII	
	TX	#OWNER<CR>		
	RX	#255,OWNER:RESI<CR>		
		Current owner:RESI		
Returns the current owner of the module				
GET CREATOR	ASCII READ COMMAND	#CREATOR<CR> #CRE<CR> Result: #CREATOR:<Creator><CR>	ASCII	
	TX	#CREATOR<CR>		
	RX	#255,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> #COPY<CR> Result: #COPYRIGHT:<Copyright><CR>	ASCII	
	TX	#COPYRIGHT<CR>		
	RX	#255,COPYRIGHT:2016,2020 BY RESI AND DI HC SIGL,MSC WWW.RESI.CC<CR>		
		Current copyright:2016,2020 BY RESI AND DI HC SIGL,MSC WWW.RESI.CC		
Returns the current copyright of the module				

GET DIP SWITCH	ASCII READ COMMAND	#GET DIP<CR> #GDIP<CR> Result: #GDIP:<DIPSwitchDec>,<DIPSwitchHex><CR>	ASCII	
	TX	#GET DIP<CR>		
	RX	#255,GDIP:15,0xF<CR>		
		Current DIP SWITCH settings:1111		
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)				
ASCII COMMANDS				
SET MODBUS ADDRESS	ASCII WRITE COMMAND	#SET MODBUS ADDRESS:<UNITID><CR> #SMBADR:<UNITID><CR> Result: #OK<CR>	ASCII	NO
	UNITID	1		
	TX	#SET MODBUS ADDRESS:1<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	#SET MODBUS BAUDRATE:<BAUD><CR> #SMBBAUD:<BAUD><CR> Result: #OK<CR>	ASCII	NO
	BAUD	57600:57600BD		
	TX	#SET MODBUS BAUDRATE:57600<CR>		
	RX	N/A		
Sets a new baudrate for the serial interface, if DIP Switches DIP1=ON and DIP2=ON. The following baudrates are allowed: 300bd 600bd 1200bd 2400bd 4800bd 9600bd 19200bd 38400bd all others are interpreted as 57600bd HINT: The new setup parameters will be active after a restart of the module.				

SET MODBUS PARITY	ASCII WRITE COMMAND	#SET MODBUS PARITY:<PARITY><CR> #SMBPAR:<PARITY><CR> Result: #OK<CR>	ASCII	NO
	PARITY	NONE:NO PARITY		
	TX	#SET MODBUS PARITY:NONE<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	#SET MODBUS STOP:<STOPBIT><CR> #SETMBSTOP:<STOPBIT><CR> Result: #OK<CR>	ASCII	NO
	STOPBIT	ONE:ONE STOPBIT		
	TX	#SET MODBUS STOP:ONE<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	#SET MODBUS PARAMS:<UNITID>,<BAUD>,<PARITY>,<STOPBIT><CR> #SMBPARAMS:<UNITID>,<BAUD>,<PARITY>,<STOPBIT><CR> Result: #OK<CR>	ASCII	NO
	UNITID	1		
	BAUD	57600:57600BD		
	PARITY	NONE:NO PARITY		
	STOPBIT	ONE:ONE STOPBIT		
	TX	#SET MODBUS PARAMS:1,57600,NONE,ONE<CR>		
	RX	N/A		
Sets all parameters for serial interface				
GET MODBUS ADDRESS	ASCII READ COMMAND	#GET MODBUS ADDRESS<CR> #GMBADR<CR> Result: #GMBADR:<MBUnitDec>,<MBFLASHDec>,<MBUnitHex>,<MBFLASHHex><CR>	ASCII	
	TX	#GET MODBUS ADDRESS<CR>		
	RX	#255,GMBADR:255,0xFF,65535,0xFFFF<CR>		
		Current MODBUS unit ID for DIP4=OFF:255,0xFF,65535,0xFFFF		

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.

MUnitDec,MUnitHex

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	#GET MODBUS BAUDRATE<CR> #GMBBAUD<CR> Result: #GMBBAUD:<BaudRate><CR>	ASCII	
	TX	#GET MODBUS BAUDRATE<CR>		
	RX	#255,GMBBAUD:57600<CR>		
		Current baudrate for DIP1+2=ON:57600		

Returns the current defined baud rate for the serial interface, if DIP switches DIP1=ON and DIP2=ON.

The following baudrates are allowed:

300bd
600bd
1200bd
2400bd
4800bd
9600bd
19200bd
38400bd
all others are interpreted as 57600bd

GET MODBUS PARITY	ASCII READ COMMAND	#GET MODBUS PARITY<CR> #GMBPAR<CR> Result: #GMBPAR:<MBParity><CR>	ASCII	
	TX	#GET MODBUS PARITY<CR>		
	RX	#255,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	#GET MODBUS STOP<CR> #GMBSTOP<CR> Result: #GMBSTOP:<MBStop><CR>	ASCII	
	TX	#GET MODBUS STOP<CR>		
	RX	#255,GMBSTOP:ONE<CR>		
		Current stopbit(s):ONE		

Returns the current configured amount of stop bits for the serial interface.

MBStops

ONE: one stop bit

TWO: two stop bits

GET MODBUS PARAMS	ASCII READ COMMAND	#GET MODBUS PARAMS<CR> #GMBPARAMS<CR> Result: #GMBPARAMS:<MBUnitDec>,<MBFLASHDec>,<MBUnitHex>,<MBFLASHHex>,<MBBaudrateDec>,<MBBaudrateHex>,<MBParity>,<MBStops><CR>	ASCII	
	TX	#GET MODBUS PARAMS<CR>		
	RX	#255,GMBPARAMS:255,0xFF,65535,0xFFFF,57600,0xE100,NONE,ONE<CR>		
		Current MODBUS unit ID used:255		
		Current MODBUS unit ID in FLASH:65535		
		Current baudrate in FLASH:57600		
		Current parity in FLASH:NONE		
		Current stopbit(s) in FLASH:ONE		
Returns the complete settings for serial interface				
ASCII COMMANDS				
RESET	ASCII WRITE COMMAND	#RESET<CR> #RST<CR> Result: #OK<CR>	ASCII	NO
	TX	#RESET<CR>		
	RX	N/A		
Executes a software reset (Reboot) of the module.				
FACTORY RESET	ASCII WRITE COMMAND	#FACTORY RESET<CR> #FRST<CR> Result: #OK<CR>	ASCII	NO
	TX	#FACTORY RESET<CR>		
	RX	N/A		
Executes a factory reset of all parameters to default values within the module and reboots the module				

4DI STATUS	3x05052 4x05052 I:5051	0,0x0000 B:00 00			SINT16 R/O	
Shows the internal converter status: =0: Everything is ok !=0: Internal converter problem or error						
DIGITAL INPUTS						
DIGITAL INPUT1	1x00001 2x00001 I:0	0,0x00 B:00			BIT R/O	
Current state of digital input DI1 =0:DI is OFF =1:DI is ON						
DIGITAL INPUT2	1x00002 2x00002 I:1	0,0x00 B:00			BIT R/O	
Current state of digital input DI2 =0:DI is OFF =1:DI is ON						
DIGITAL INPUT3	1x00003 2x00003 I:2	0,0x00 B:00			BIT R/O	
Current state of digital input DI3 =0:DI is OFF =1:DI is ON						
DIGITAL INPUT4	1x00004 2x00004 I:3	0,0x00 B:00			BIT R/O	
Current state of digital input DI4 =0:DI is OFF =1:DI is ON						
NEGATED DIGITAL INPUT1	1x00005 2x00005 I:4	1,0x01 B:01			BIT R/O	
Current negated state of digital input DI1 =0:DI is ON =1:DI is OFF						
NEGATED DIGITAL INPUT2	1x00006 2x00006 I:5	1,0x01 B:01			BIT R/O	
Current negated state of digital input DI2 =0:DI is ON =1:DI is OFF						

NEGATED DIGITAL INPUT3	1x00007 2x00007 I:6	1,0x01 B:01			BIT R/O	
Current negated state of digital input DI3 =0:DI is ON =1:DI is OFF						
NEGATED DIGITAL INPUT4	1x00008 2x00008 I:7	1,0x01 B:01			BIT R/O	
Current negated state of digital input DI4 =0:DI is ON =1:DI is OFF						
OR DIGITAL INPUTS	1x00009 2x00009 I:8	0,0x00 B:00			BIT R/O	
Bitwise OR between all four digital inputs DI1, DI2, DI3 and DI4						
XOR DIGITAL INPUTS	1x00010 2x00010 I:9	0,0x00 B:00			BIT R/O	
Bitwise EXCLUSIVE OR between all four digital inputs DI1, DI2, DI3 and DI4						
AND DIGITAL INPUTS	1x00011 2x00011 I:10	0,0x00 B:00			BIT R/O	
Bitwise AND between all four digital inputs DI1, DI2, DI3 and DI4						
RESET COUNTER	1x00100 2x00100 I:99	0,0x00 B:00		N/A:NO CHANGE	BIT R/W	NO
Reset, resetting of the internal edge counters to 0. If read, this bit is always 0.						
DIGITAL INPUTS						
DIGITAL INPUT1	3x00001 4x00001 I:0	0,0x0000 B:00 00			UINT16 R/O	
Current state of digital input DI1 =0:DI is OFF =1:DI is ON						
DIGITAL INPUT2	3x00002 4x00002 I:1	0,0x0000 B:00 00			UINT16 R/O	

Current state of digital input DI2 =0:DI is OFF =1:DI is ON						
DIGITAL INPUT3	3x00003 4x00003 I:2	0,0x0000 B:00 00			UINT16 R/O	
Current state of digital input DI3 =0:DI is OFF =1:DI is ON						
DIGITAL INPUT4	3x00004 4x00004 I:3	0,0x0000 B:00 00			UINT16 R/O	
Current state of digital input DI4 =0:DI is OFF =1:DI is ON						
DIGITAL INPUTS	3x00005 4x00005 I:4	0,0x0000 B:00 00			UINT16 R/O	
		BITS:0000.0000.0000.0000				
Current state of all digital inputsBit 0: =0:DI1 is OFF =1:DI1 is ONBit 1: =0:DI2 is OFF =1:DI2 is ONBit 3: =0:DI3 is OFF =1:DI3 is ONBit 4: =0:DI4 is OFF =1:DI4 is ON						
NEGATED DIGITAL INPUT1	3x00006 4x00006 I:5	1,0x0001 B:00 01			UINT16 R/O	
Current negated state of digital input DI1 =0:DI is ON =1:DI is OFF						
NEGATED DIGITAL INPUT2	3x00007 4x00007 I:6	1,0x0001 B:00 01			UINT16 R/O	
Current negated state of digital input DI2 =0:DI is ON =1:DI is OFF						
NEGATED DIGITAL INPUT3	3x00008 4x00008 I:7	1,0x0001 B:00 01			UINT16 R/O	
Current negated state of digital input DI3 =0:DI is ON =1:DI is OFF						
NEGATED DIGITAL INPUT4	3x00009 4x00009 I:8	1,0x0001 B:00 01			UINT16 R/O	

Current negated state of digital input DI4 =0:DI is ON =1:DI is OFF					
NEGATED DIGITAL INPUTS	3x00010 4x00010 I:9	15,0x000F B:00 0F		UINT16 R/O	
BITS:0000.0000.0000.1111					
Current negated state of all digital inputsBit 0: =0:DI1 is ON =1:DI1 is OFFBit 1: =0:DI2 is ON =1:DI2 is OFFBit 2: =0:DI23is ON =1:DI3 is OFFBit 3: =0:DI2 4s ON =1:DI4 is OFF					
OR DIGITAL INPUTS	3x00011 4x00011 I:10	0,0x0000 B:00 00		UINT16 R/O	
Bitwise OR between all four digital inputs DI1, DI2, DI3 and DI4					
XOR DIGITAL INPUTS	3x00012 4x00012 I:11	0,0x0000 B:00 00		UINT16 R/O	
Bitwise EXCLUSIVE OR between all four digital inputs DI1, DI2, DI3 and DI4					
AND DIGITAL INPUTS	3x00013 4x00013 I:12	0,0x0000 B:00 00		UINT16 R/O	
Bitwise AND between all four digital inputs DI1, DI2, DI3 and DI4					
RISE DI1	3x00051 4x00051 I:50	0,0x0000 B:00 00		UINT16 R/O	
Amount of rising edges on DI1:0					
Edge counter for rising edges on the digital input DI1. If the module detects a rising edge on the input DI1, this counter increments with 1. After a reset or a power loss of the module all internal edge counters are 0. With the function RESET COUNTER the host can cleat this counter to 0.					
FALL DI1	3x00052 4x00052 I:51	0,0x0000 B:00 00		UINT16 R/O	
Amount of falling edges on DI1:0					
Edge counter for falling edges on the digital input DI1. If the module detects a falling edge on the input DI1, this counter increments with 1. After a reset or a power loss of the module all internal edge counters are 0. With the function RESET COUNTER the host can cleat this counter to 0.					
RISE DI2	3x00053 4x00053 I:52	0,0x0000 B:00 00		UINT16 R/O	
Amount of rising edges on DI1:0					
Edge counter for rising edges on the digital input DI2. If the module detects a rising edge on the input DI2, this counter increments with 1. After a reset or a power loss of the module all internal edge counters are 0. With the function RESET COUNTER the host can cleat this counter to 0.					

FALL DI2	3x00054 4x00054 I:53	0,0x0000 B:00 00			UINT16 R/O	
		Amount of falling edges on DI1:0				
Edge counter for falling edges on the digital input DI2. If the module detects a falling edge on the input DI2, this counter increments with 1. After a reset or a power loss of the module all internal edge counters are 0. With the function RESET COUNTER the host can cleat this counter to 0.						
RISE DI3	3x00055 4x00055 I:54	0,0x0000 B:00 00			UINT16 R/O	
		Amount of rising edges on DI1:0				
Edge counter for rising edges on the digital input DI2. If the module detects a rising edge on the input DI2, this counter increments with 1. After a reset or a power loss of the module all internal edge counters are 0. With the function RESET COUNTER the host can cleat this counter to 0.						
FALL DI3	3x00056 4x00056 I:55	0,0x0000 B:00 00			UINT16 R/O	
		Amount of falling edges on DI1:0				
Edge counter for falling edges on the digital input DI2. If the module detects a falling edge on the input DI2, this counter increments with 1. After a reset or a power loss of the module all internal edge counters are 0. With the function RESET COUNTER the host can cleat this counter to 0.						
RISE DI4	3x00057 4x00057 I:56	0,0x0000 B:00 00			UINT16 R/O	
		Amount of rising edges on DI1:0				
Edge counter for rising edges on the digital input DI2. If the module detects a rising edge on the input DI2, this counter increments with 1. After a reset or a power loss of the module all internal edge counters are 0. With the function RESET COUNTER the host can cleat this counter to 0.						
FALL DI4	3x00058 4x00058 I:57	0,0x0000 B:00 00			UINT16 R/O	
		Amount of falling edges on DI1:0				
Edge counter for falling edges on the digital input DI2. If the module detects a falling edge on the input DI2, this counter increments with 1. After a reset or a power loss of the module all internal edge counters are 0. With the function RESET COUNTER the host can cleat this counter to 0.						
RESET COUNTER	3x00100 4x00100 I:99	0,0x0000 B:00 00		N/A:NO CHANGE	UINT16 R/O	NO
Reset, resetting of the internal edge counters to 0. If read, this bit is always 0.						

GET DI1	ASCII READ COMMAND	#GET DI1<CR> #GDI1<CR> Result: #GDI1:<DI1Dec>,<DI1Hex><CR>	ASCII	
	TX	#GET DI1<CR>		
	RX	#255,GDI1:0<CR>		
		Current status of digital input DI1:0		
Returns the current state of digital input DIx as decimal number and as hexadecimal numberDI1DecDI1HexThe current state of digital input DIx: =0: Digital input is OFF=1: Digital input is ON				
GET DI2	ASCII READ COMMAND	#GET DI2<CR> #GDI2<CR> Result: #GDI2:<DI2Dec>,<DI2Hex><CR>	ASCII	
	TX	#GET DI2<CR>		
	RX	#255,GDI2:0<CR>		
		Current status of digital input DI2:0		
Returns the current state of digital input DIx as decimal number and as hexadecimal numberDI2DecDI2HexThe current state of digital input DIx: =0: Digital input is OFF=1: Digital input is ON				
GET DI3	ASCII READ COMMAND	#GET DI3<CR> #GDI3<CR> Result: #GDI3:<DI3Dec>,<DI3Hex><CR>	ASCII	
	TX	#GET DI3<CR>		
	RX	#255,GDI3:0<CR>		
		Current status of digital input DI3:0		
Returns the current state of digital input DIx as decimal number and as hexadecimal number DI3Dec DI3Hex The current state of digital input DIx: =0: Digital input is OFF =1: Digital input is ON				
GET DI4	ASCII READ COMMAND	#GET DI4<CR> #GDI4<CR> Result: #GDI4:<DI4Dec>,<DI4Hex><CR>	ASCII	
	TX	#GET DI4<CR>		
	RX	#255,GDI4:0<CR>		
		Current status of digital input DI4:0		

Returns the current state of digital input DIx as decimal number and as hexadecimal number

DI4Dec
DI4Hex

The current state of digital input DIx:

=0: Digital input is OFF

=1: Digital input is ON

GET DIS	ASCII READ COMMAND	#GET DIS<CR> #GDIS<CR> Result: #GTS:<SENSOR1DbI>,<SENSOR2DbI><CR>	ASCII	
	TX	#GET DIS<CR>		
	RX	#255,GDIS:0,0x0<CR>		
		Current status of digital inputs DI1:0,DI2:0,DI3:0,DI4:0		

Returns the current state of all digital inputs of the module as decimal number and as hexadecimal number

DISDec
DISHex

The current state of all digital inputs:

Bit 0: State DI1 (=0:OFF, =1:ON)

Bit 1: State DI2 (=0:OFF, =1:ON)

Bit 2: State DI3 (=0:OFF, =1:ON)

Bit 3: State DI4 (=0:OFF, =1:ON)

GET NEG DI1	ASCII READ COMMAND	#GET NEG DI1<CR> #GNDI1<CR> Result: #GNDI1:<NDI1Dec>,<NDI1Hex><CR>	ASCII	
	TX	#GET NEG DI1<CR>		
	RX	#255,GNDI1:1<CR>		
		Current status of negated digital input DI1:1		

Returns the current state of the negated digital input DIx as decimal number and as hexadecimal number

NDI1Dec
NDI1Hex

The current negated state of digital input DIx:

=0: Digital input is ON

=1: Digital input is OFF

GET NEG DI2	ASCII READ COMMAND	#GET NEG DI2<CR> #GNDI2<CR> Result: #GNDI2:<DI2Dec>,<DI2Hex><CR>	ASCII	
	TX	#GET NEG DI2<CR>		
	RX	#255,GNDI2:1<CR>		
		Current status of negated digital input DI2:1		

Returns the current state of the negated digital input DIx as decimal number and as hexadecimal number

NDI2Dec
NDI2Hex

The current negated state of digital input DIx:

=0: Digital input is ON

=1: Digital input is OFF

GET NEG DI3	ASCII READ COMMAND	#GET NEG DI3<CR> #GNDI3<CR> Result: #GNDI3:<DI3Dec>,<DI3Hex><CR>	ASCII	
	TX	#GET NEG DI3<CR>		
	RX	#255,GNDI3:1<CR>		
		Current status of negated digital input DI3:1		
Returns the current state of the negated digital input DIx as decimal number and as hexadecimal number NDI3Dec NDI3Hex The current negated state of digital input DIx: =0: Digital input is ON =1: Digital input is OFF				
GET NEG DI4	ASCII READ COMMAND	#GET NEG DI4<CR> #GNDI4<CR> Result: #GNDI4:<DI4Dec>,<DI4Hex><CR>	ASCII	
	TX	#GET NEG DI4<CR>		
	RX	#255,GNDI4:1<CR>		
		Current status of negated digital input DI4:1		
Returns the current state of the negated digital input DIx as decimal number and as hexadecimal number NDI4Dec NDI4Hex The current negated state of digital input DIx: =0: Digital input is ON =1: Digital input is OFF				
GET NEG DIS	ASCII READ COMMAND	#GET NEG DIS<CR> #GNDIS<CR> Result: #GNDIS:<NDISDec>,<NDISHex><CR>	ASCII	
	TX	#GET NEG DIS<CR>		
	RX	#255,GNDIS:15,0xF<CR>		
		Current status of negated digital inputs DI1:1,DI2:1		
Returns the current negated states of both digital inputs as decimal number and as hexadecimal number NDISDec NDISHex The current negated state of all digital inputs: Bit 0: Negated state of DI1 (=0:ON, =1:OFF) Bit 1: Negated state of DI2 (=0:ON, =1:OFF)				
OR DIS	ASCII READ COMMAND	#OR DIS<CR> #ORDIS<CR> Result: #ORDIS:<ORDISDec>,<ORDISHex><CR>	ASCII	
	TX	#OR DIS<CR>		
	RX	#255,ORDIS:0,0x0<CR>		
		Current result of OR between all digital inputs:0		

Returns the result of a bitwise OR operation between the both digital inputs DI1 and DI2 as decimal number and as hexadecimal number

ORDISDec

ORDISHex

Bitwise OR operation between DI1, DI2, DI3 and DI4

XOR DIS	ASCII READ COMMAND	#XOR DIS<CR> #XORDIS<CR> Result: #XORDIS:<XORDISDec>,<XORDISHex><CR>	ASCII	
	TX	#XOR DIS<CR>		
	RX	#255,XORDIS:0,0x0<CR>		
		Current result of XOR between all digital inputs:0		

Returns the result of a bitwise EXCLUSIVE OR operation between the both digital inputs DI1 and DI2 as decimal number and as hexadecimal number

XORDISDec

XORDISHex

Bitwise XOR operation between DI1, DI2, DI3 and DI4

AND DIS	ASCII READ COMMAND	#AND DIS<CR> #ANDDIS<CR> Result: #ANDDIS:<ANDDISDec>,<ANDDISHex><CR>	ASCII	
	TX	#AND DIS<CR>		
	RX	#255,ANDDIS:0,0x0<CR>		
		Current result of AND between all digital inputs:0		

Returns the result of a bitwise AND operation between the both digital inputs DI1 and DI2 as decimal number and as hexadecimal number

ANDDISDec

ANDDISHex

Bitwise AND operation between DI1, DI2, DI3 and DI4

RISE DI1	ASCII READ COMMAND	#RISE DI1<CR> #RDI1<CR> Result: #RDI1:<RDI1Dec>,<RDI1Hex><CR>	ASCII	
	TX	#RISE DI1<CR>		
	RX	#255,RDI1:0,0x0<CR>		
		Current amount of rising edges on DI1:0		

Returns the current edge counter for the digital input DIx. This counter counts the rising edges of DIx since reset of the module as decimal number and as hexadecimal number

RDI1Dec

RDI1Hex

The current amount of rising edges on digital input DIx

FALL DI1	ASCII READ COMMAND	#FALL DI1<CR> #FDI1<CR> Result: #FDI1:<FDI1Dec>,<FDI1Hex><CR>	ASCII	
	TX	#FALL DI1<CR>		
	RX	#255,FDI1:0,0x0<CR>		
		Current amount of falling edges on DI1:0		

Returns the current edge counter for the digital input DIx. This counter counts the falling edges of DIx since reset of the module as decimal number and as hexadecimal number

FDI1Dec

FDI1Hex

The current amount of falling edges on digital input DIx

RISE DI2	ASCII READ COMMAND	#RISE DI2<CR> #RDI2<CR> Result: #RDI2:<RDI2Dec>,<RDI2Hex><CR>	ASCII	
	TX	#RISE DI2<CR>		
	RX	#255,RDI2:0,0x0<CR>		
		Current amount of rising edges on DI2:0		
Returns the current edge counter for the digital input DIx. This counter counts the rising edges of DIx since reset of the module as decimal number and as hexadecimal number RDI2Dec RDI2Hex The current amount of rising edges on digital input DIx				
FALL DI2	ASCII READ COMMAND	#FALL DI2<CR> #FDI2<CR> Result: #FDI2:<FDI2Dec>,<FDI2Hex><CR>	ASCII	
	TX	#FALL DI2<CR>		
	RX	#255,FDI2:0,0x0<CR>		
		Current amount of falling edges on DI2:0		
Returns the current edge counter for the digital input DIx. This counter counts the falling edges of DIx since reset of the module as decimal number and as hexadecimal number FDI2Dec FDI2Hex The current amount of falling edges on digital input DIx				
RISE DI3	ASCII READ COMMAND	#RISE DI3<CR> #RDI3<CR> Result: #RDI3:<RDI3Dec>,<RDI3Hex><CR>	ASCII	
	TX	#RISE DI3<CR>		
	RX	#255,RDI3:0,0x0<CR>		
		Current amount of rising edges on DI3:0		
Returns the current edge counter for the digital input DIx. This counter counts the rising edges of DIx since reset of the module as decimal number and as hexadecimal number RDI3Dec RDI3Hex The current amount of rising edges on digital input DIx				
FALL DI3	ASCII READ COMMAND	#FALL DI3<CR> #FDI3<CR> Result: #FDI3:<FDI3Dec>,<FDI3Hex><CR>	ASCII	
	TX	#FALL DI3<CR>		
	RX	#255,FDI3:0,0x0<CR>		
		Current amount of falling edges on DI3:0		
Returns the current edge counter for the digital input DIx. This counter counts the falling edges of DIx since reset of the module as decimal number and as hexadecimal number FDI3Dec FDI3Hex The current amount of falling edges on digital input DIx				

RISE DI4	ASCII READ COMMAND	#RISE DI4<CR> #RDI4<CR> Result: #RDI4:<RDI4Dec>,<RDI4Hex><CR>	ASCII	
	TX	#RISE DI4<CR>		
	RX	#255,RDI4:0,0x0<CR>		
		Current amount of rising edges on DI4:0		
Returns the current edge counter for the digital input DIx. This counter counts the rising edges of DIx since reset of the module as decimal number and as hexadecimal number RDI4Dec RDI4Hex The current amount of rising edges on digital input DIx				
FALL DI4	ASCII READ COMMAND	#FALL DI4<CR> #FDI4<CR> Result: #FDI4:<FDI4Dec>,<FDI4Hex><CR>	ASCII	
	TX	#FALL DI4<CR>		
	RX	#255,FDI4:0,0x0<CR>		
		Current amount of falling edges on DI4:0		
Returns the current edge counter for the digital input DIx. This counter counts the falling edges of DIx since reset of the module as decimal number and as hexadecimal number FDI4Dec FDI4Hex The current amount of falling edges on digital input DIx				
RESET COUNTERS	ASCII WRITE COMMAND	#RESET COUNTERS<CR> #RC<CR> Result: #OK<CR>	ASCII	NO
	TX	#RESET COUNTERS<CR>		
	RX	N/A		