

RESET	1x06001 2x06001 I:6000	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	3x06001 4x06001 I:6000	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).						
<b>CONVERTER STATUS</b>						
CONVERTER STATUS	3x06002 4x06002 I:6001	0,0x0000 B:00 00			UINT16 R/O	
Current status of the converter						
<b>CONVERTER STATUS</b>						
DIP SWITCH	3x10010 4x10010 I:10009	0,0x0000 B:00 00			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) For BIG 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) 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)						
<b>PRODUCT DATA</b>						
HW_GROUP	3x65201 4x65201 I:65200	4096,0x1000 B:10 00			UINT16 R/O	
This is the group of hardware of the current product						
SW_GROUP	3x65202 4x65202 I:65201	21,0x0015 B:00 15			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 l:65203	18771,0x4953 B:49 53			UINT16 R/O	
This is the current software author of the firmware						
<b>MODBUS SETTINGS</b>						
UNIT_ID	3x65222 4x65222 l:65221	0,0x0000 B:00 00		N/A:NO CHANGE	UINT16 R/W	NO
		UNIT ID:0				
<p>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 write 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 set to OFF to activate this unit ID, otherwise the unit ID is 255.</p>						
<b>HINT:This settings will be active after you repower or reset your device !!</b>						
BAUD_RATE	3x65223 4x65223 l:65222	9600,0x00002580 B:00 00 25 80	38400	38400	UINT32 R/W	NO
		9600Bd	ENTER BAUD RATE			
<p>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)</p>						
<p>Valid baud rates are:          300bd, 600bd, 900bd, 1200bd, 2400bd, 4800bd,          9600bd, 19200bd, 38400bd, 57600bd, 115200bd, 128000bd          230400bd, 250000bd, 256000bd</p>						
<b>HINT:This settings will be active after you repower or reset your device !!</b>						
PARITY	3x65225 4x65225 l:65224	0,0x0000 B:00 00		N/A:NO CHANGE	UINT16 R/W	NO
		NO PARITY	SELECT PARITY			
<p>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.</p>						
<p>Parity values are          0: no parity          1: even parity          2: odd parity</p>						
STOP BITS	3x65226 4x65226 l:65225	1,0x0001 B:00 01		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	#1,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	#1,TYPE:RESI-8CO-SIO<CR>		
		Current module type:RESI-8CO-SIO		
Returns the current module type				
GET OWNER	ASCII READ COMMAND	#OWNER<CR> #OWN<CR> Result: #OWNER:<Owner><CR>	ASCII	
	TX	#OWNER<CR>		
	RX	#1,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	#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> #COPY<CR> Result: #COPYRIGHT:<Copyright><CR>	ASCII	
	TX	#COPYRIGHT<CR>		
	RX	#1,COPYRIGHT:2015-2020 BY RESI AND DI HC SIGL,MSC WWW.RESI.CC<CR>		
		Current copyright:2015-2020 BY RESI AND DI HC SIGL,MSC WWW.RESI.CC		
Returns the current copyright of the module				

GET DIP SWITCH	<b>ASCII READ COMMAND</b>	#GET DIP<CR> #GDIP<CR> Result: #GDIP:<DIPSwitchDec>,<DIPSwitchHex><CR>	ASCII	
	<b>TX</b>	#GET DIP<CR>		
	<b>RX</b>	#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)				
<b>ASCII COMMANDS</b>				
SET MODBUS ADDRESS	<b>ASCII WRITE COMMAND</b>	#SET MODBUS ADDRESS:<UNITID><CR> #SETMBADR:<UNITID><CR> Result: #OK<CR>	ASCII	NO
	<b>UNITID</b>	1		
	<b>TX</b>	#SET MODBUS ADDRESS:1<CR>		
	<b>RX</b>	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	<b>ASCII WRITE COMMAND</b>	#SET MODBUS BAUDRATE:<BAUD><CR> #SETMBBAUD:<BAUD><CR> Result: #OK<CR>	ASCII	NO
	<b>BAUD</b>	57600:57600BD		
	<b>TX</b>	#SET MODBUS BAUDRATE:57600<CR>		
	<b>RX</b>	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	<b>ASCII WRITE COMMAND</b>	#SET MODBUS PARITY:<PARITY><CR> #SETMBPAR:<PARITY><CR> Result: #OK<CR>	ASCII	NO
	<b>PARITY</b>	NONE:NO PARITY		
	<b>TX</b>	#SET MODBUS PARITY:NONE<CR>		
	<b>RX</b>	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	<b>ASCII WRITE COMMAND</b>	#SET MODBUS STOP:<STOPBIT><CR> #SETMBSTOP:<STOPBIT><CR> Result: #OK<CR>	ASCII	NO
	<b>STOPBIT</b>	ONE:ONE STOPBIT		
	<b>TX</b>	#SET MODBUS STOP:ONE<CR>		
	<b>RX</b>	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	<b>ASCII WRITE COMMAND</b>	#SET MODBUS PARAMS:<UNITID>,<BAUD>,<PARITY>,<STOPBIT><CR> #SETMBPARAMS:<UNITID>,<BAUD>,<PARITY>,<STOPBIT><CR> Result: #OK<CR>	ASCII	NO
	<b>UNITID</b>	1		
	<b>BAUD</b>	57600:57600BD		
	<b>PARITY</b>	NONE:NO PARITY		
	<b>STOPBIT</b>	ONE:ONE STOPBIT		
	<b>TX</b>	#SET MODBUS PARAMS:1,57600,NONE,ONE<CR>		

	<b>RX</b>	N/A		
Sets all parameters for serial interface				
GET MODBUS ADDRESS	<b>ASCII READ COMMAND</b>	#GET MODBUS ADDRESS<CR> #GMBADR<CR> Result: #GMBADR:<MBUnitDec>,<MBFLASHDec>,<MBUnitHex>,<MBFLASHHex><CR>	ASCII	
	<b>TX</b>	#GET MODBUS ADDRESS<CR>		
	<b>RX</b>	#1,GMBADR:1,1,0x1,0x1<CR>		
		Current MODBUS unit ID:1,1,0x1,0x1		
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	<b>ASCII READ COMMAND</b>	#GET MODBUS BAUDRATE<CR> #GMBBAUD<CR> Result: #GMBBAUD:<BaudRate><CR>	ASCII	
	<b>TX</b>	#GET MODBUS BAUDRATE<CR>		
	<b>RX</b>	#1,GMBBAUD:57600,0xE100<CR>		
		Current baudrate:57600,0xE100		
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	<b>ASCII READ COMMAND</b>	#GET MODBUS PARITY<CR> #GMBPAR<CR> Result: #GMBPAR:<MBParity><CR>	ASCII	
	<b>TX</b>	#GET MODBUS PARITY<CR>		
	<b>RX</b>	#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	<b>ASCII READ COMMAND</b>	#GET MODBUS STOP<CR> #GMBSTOP<CR> Result: #GMBSTOP:<MBStop><CR>	ASCII	

	<b>TX</b>	#GET MODBUS STOP<CR>		
	<b>RX</b>	#1,GMBSTOP: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	<b>ASCII READ COMMAND</b>	#GET MODBUS PARAMS<CR> #GMBPARAMS<CR> Result: #GMBPARAMS:<MBUnitDec>,<MBFLASHDec>,<MBUnitHex>,<MBFLASHHex>, <MBBaudrateDec>,<MBBaudrateHex>,<MBParity>,<MBStops><CR>	ASCII	
	<b>TX</b>	#GET MODBUS PARAMS<CR>		
	<b>RX</b>	#1,GMBPARAMS:1,0x1,1,0x1,57600,0xE100,NONE,ONE<CR>		
		Current MODBUS unit ID used:1		
		Current MODBUS unit ID in FLASH:1		
		Current baudrate in FLASH:57600		
		Current parity in FLASH:NONE		
		Current stopbit(s) in FLASH:ONE		
Returns the complete settings for serial interface				
<b>ASCII COMMANDS</b>				
RESET	<b>ASCII WRITE COMMAND</b>	#RESET<CR> #RST<CR> Result: #OK<CR>	ASCII	NO
	<b>TX</b>	#RESET<CR>		
	<b>RX</b>	N/A		
Executes a software reset (Reboot) of the module.				
FACTORY RESET	<b>ASCII WRITE COMMAND</b>	#FACTORY RESET<CR> #FRST<CR> Result: #OK<CR>	ASCII	YES
	<b>TX</b>	#FACTORY RESET<CR>		
	<b>RX</b>	N/A		



DI1	1x00001 2x00001 I:0	0,0x00 B:00			BIT R/O	
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	
Current state of the digital input DIx =0:DI is OFF, =1:DI is ON						
DI3	1x00003 2x00003 I:2	0,0x00 B:00			BIT R/O	
Current state of the digital input DIx =0:DI is OFF, =1:DI is ON						
DI4	1x00004 2x00004 I:3	0,0x00 B:00			BIT R/O	
Current state of the digital input DIx =0:DI is OFF, =1:DI is ON						
DI5	1x00005 2x00005 I:4	0,0x00 B:00			BIT R/O	
Current state of the digital input DIx =0:DI is OFF, =1:DI is ON						
DI6	1x00006 2x00006 I:5	0,0x00 B:00			BIT R/O	
Current state of the digital input DIx =0:DI is OFF, =1:DI is ON						
DI7	1x00007 2x00007 I:6	0,0x00 B:00			BIT R/O	
Current state of the digital input DIx =0:DI is OFF, =1:DI is ON						

DI8	1x00008 2x00008 I:7	0,0x00 B:00			BIT R/O	
Current state of DI8:0=OFF						
Current state of the digital input DIx =0:DI is OFF, =1:DI is ON						
DI9	1x00009 2x00009 I:8	0,0x00 B:00			BIT R/O	
Current state of DI9:0=OFF						
Current state of the digital input DIx =0:DI is OFF, =1:DI is ON						
DI10	1x00010 2x00010 I:9	0,0x00 B:00			BIT R/O	
Current state of DI10:0=OFF						
Current state of the digital input DIx =0:DI is OFF, =1:DI is ON						
DI11	1x00011 2x00011 I:10	0,0x00 B:00			BIT R/O	
Current state of DI11:0=OFF						
Current state of the digital input DIx =0:DI is OFF, =1:DI is ON						
DI12	1x00012 2x00012 I:11	0,0x00 B:00			BIT R/O	
Current state of DI12:0=OFF						
Current state of the digital input DIx =0:DI is OFF, =1:DI is ON						
DI13	1x00013 2x00013 I:12	0,0x00 B:00			BIT R/O	
Current state of DI13:0=OFF						
Current state of the digital input DIx =0:DI is OFF, =1:DI is ON						
DI14	1x00014 2x00014 I:13	0,0x00 B:00			BIT R/O	
Current state of DI14:0=OFF						
Current state of the digital input DIx =0:DI is OFF, =1:DI is ON						

<b>STATUS</b>						
DIP SWITCH 1	1x00091 2x00091 I:90	1,0x01 B:01			BIT R/O	
Current state of DIP SWITCH1:1=ON						
Current state of DIP switch x =0:Dip switch is OFF, =1: Dip switch is ON						
DIP SWITCH 2	1x00092 2x00092 I:91	0,0x00 B:00			BIT R/O	
Current state of DIP SWITCH2:0=OFF						
Current state of DIP switch x =0:Dip switch is OFF, =1: Dip switch is ON						
DIP SWITCH 3	1x00093 2x00093 I:92	0,0x00 B:00			BIT R/O	
Current state of DIP SWITCH3:0=OFF						
Current state of DIP switch x =0:Dip switch is OFF, =1: Dip switch is ON						
DIP SWITCH 4	1x00094 2x00094 I:93	0,0x00 B:00			BIT R/O	
Current state of DIP SWITCH4:0=OFF						
Current state of DIP switch x =0:Dip switch is OFF, =1: Dip switch is ON						
DIP SWITCH 5	1x00095 2x00095 I:94	0,0x00 B:00			BIT R/O	
Current state of DIP SWITCH5:0=OFF						
Current state of DIP switch x =0:Dip switch is OFF, =1: Dip switch is ON						
DIP SWITCH 6	1x00096 2x00096 I:95	0,0x00 B:00			BIT R/O	
Current state of DIP SWITCH6:0=OFF						
Current state of DIP switch x =0:Dip switch is OFF, =1: Dip switch is ON						
DIP SWITCH 7	1x00097 2x00097 I:96	1,0x01 B:01			BIT R/O	
Current state of DIP SWITCH7:1=ON						

Current state of DIP switch x =0: Dip switch is OFF, =1: Dip switch is ON						
DIP SWITCH 8	1x00098 2x00098 I:97	0,0x00 B:00			BIT R/O	
Current state of DIP SWITCH8:0=OFF						
Current state of DIP switch x =0: Dip switch is OFF, =1: Dip switch is ON						
<b>DIGITAL INPUTS: RESET</b>						
RESET COUNTERS	1x10000 2x10000 I:9999	0,0x00 B:00		1:PERFORM RESET	BIT R/W	YES
If this register is written to 1, all internal edge counters and event counters are set to 0. 0 is always returned when reading.						
<b>DIGITAL INPUTS</b>						
RISING EDGES DI1	3x00001 4x00001 I:0	1,0x0001 B:00 01			UINT16 R/O	
1 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.						
FALLING EDGES DI1	3x00002 4x00002 I:1	1,0x0001 B:00 01			UINT16 R/O	
1 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.						
RISING EDGES DI2	3x00003 4x00003 I:2	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.						
FALLING EDGES DI2	3x00004 4x00004 I:3	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.						

RISING EDGES DI3	3x00005 4x00005 I:4	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.						
FALLING EDGES DI3	3x00006 4x00006 I:5	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.						
RISING EDGES DI4	3x00007 4x00007 I:6	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.						
FALLING EDGES DI4	3x00008 4x00008 I:7	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.						
RISING EDGES DI5	3x00009 4x00009 I:8	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.						
FALLING EDGES DI5	3x00010 4x00010 I:9	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.						

RISING EDGES DI6	3x00011 4x00011 I:10	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.						
FALLING EDGES DI6	3x00012 4x00012 I:11	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.						
RISING EDGES DI7	3x00013 4x00013 I:12	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.						
FALLING EDGES DI7	3x00014 4x00014 I:13	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.						
RISING EDGES DI8	3x00015 4x00015 I:14	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.						
FALLING EDGES DI8	3x00016 4x00016 I:15	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.						

RISING EDGES DI9	3x00017 4x00017 I:16	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.						
FALLING EDGES DI9	3x00018 4x00018 I:17	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.						
RISING EDGES DI10	3x00019 4x00019 I:18	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.						
FALLING EDGES DI10	3x00020 4x00020 I:19	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.						
RISING EDGES DI11	3x00021 4x00021 I:20	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.						
FALLING EDGES DI11	3x00022 4x00022 I:21	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.						

RISING EDGES DI12	3x00023 4x00023 I:22	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.						
FALLING EDGES DI12	3x00024 4x00024 I:23	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.						
RISING EDGES DI13	3x00025 4x00025 I:24	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.						
FALLING EDGES DI13	3x00026 4x00026 I:25	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.						
RISING EDGES DI14	3x00027 4x00027 I:26	4,0x0004 B:00 04			UINT16 R/O	
		4 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.						
FALLING EDGES DI14	3x00028 4x00028 I:27	4,0x0004 B:00 04			UINT16 R/O	
		4 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.						
<b>STATUS</b>						



FILTER PATTERN DI1	3x00029 4x00029 I:28	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	3x00031 4x00031 I:30	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 DI3	3x00033 4x00033 I:32	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 DI4	3x00035 4x00035 I:34	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 DI5	3x00037 4x00037 I:36	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 DI6	3x00039 4x00039 I:38	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 DI7	3x00041 4x00041 I:40	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 DI8	3x00043 4x00043 I:42	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 DI9	3x00045 4x00045 I:44	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 DI10	3x00047 4x00047 I:46	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 DI11	3x00049 4x00049 I:48	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 DI12	3x00051 4x00051 I:50	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 DI13	3x00053 4x00053 I:52	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 DI14	3x00055 4x00055 I:54	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.						
<b>GENERAL STATUS OF DIS</b>						
RESET COUNTERS	3x10000 4x10000 I:9999	0,0x0000 B:00 00		1:PERFORM RESET	UINT16 R/W	YES
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	7,0x0007 B:00 07			UINT16 R/O	
		7 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	3x10002 4x10002 I:10001	0,0x0000 B:00 00			UINT16 R/O	
		Current state of DI1:0=OFF				
		Current state of DI2:0=OFF				
		Current state of DI3:0=OFF				
		Current state of DI4:0=OFF				
		Current state of DI5:0=OFF				
		Current state of DI6:0=OFF				
		Current state of DI7:0=OFF				
		Current state of DI8:0=OFF				
		Current state of DI9:0=OFF				
		Current state of DI10:0=OFF				
		Current state of DI11:0=OFF				
		Current state of DI12:0=OFF				
		Current state of DI13:0=OFF				
		Current state of DI14:0=OFF				

Current state of all digital inputs  
 Bit 0: =0:DI1 is OFF, =1:DI1 is ON  
 Bit 1: =0:DI2 is OFF, =1:DI2 is ON  
 Bit 2: =0:DI3 is OFF, =1:DI3 is ON  
 Bit 3: =0:DI4 is OFF, =1:DI4 is ON  
 Bit 4: =0:DI5 is OFF, =1:DI5 is ON  
 Bit 5: =0:DI6 is OFF, =1:DI6 is ON  
 Bit 6: =0:DI7 is OFF, =1:DI7 is ON  
 Bit 7: =0:DI8 is OFF, =1:DI8 is ON  
 Bit 8: =0:DI9 is OFF, =1:DI9 is ON  
 Bit 9: =0:DI10 is OFF, =1:DI10 is ON  
 Bit 10: =0:DI11 is OFF, =1:DI11 is ON  
 Bit 11: =0:DI12 is OFF, =1:DI12 is ON  
 Bit 12: =0:DI13 is OFF, =1:DI13 is ON  
 Bit 13: =0:DI14 is OFF, =1:DI14 is ON  
 Bit 14: Always 0  
 Bit 15: Always 0

STATUS OF DIP SWITCH	3x10010 4x10010 I:10009	65,0x0041 B:00 41			UINT16 R/O	
		Current state of DIP SWITCH1:1=ON				
		Current state of DIP SWITCH2:0=OFF				
		Current state of DIP SWITCH3:0=OFF				
		Current state of DIP SWITCH4:0=OFF				
		Current state of DIP SWITCH5:0=OFF				
		Current state of DIP SWITCH6:0=OFF				
		Current state of DIP SWITCH7:1=ON				
		Current state of DIP SWITCH8:0=OFF				

Current state of the DIP switch  
 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)  
 Bit 8-15: always 0

#### DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI1

RISE DI1	3x20001 4x20001 I:20000	1,0x0001 B:00 01			UINT16 R/O	
		1 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	3x20002 4x20002 I:20001	1,0x0001 B:00 01			UINT16 R/O	
		1 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	3x20003 4x20003 I:20002	2,0x0002 B:00 02			UINT16 R/O	
		2 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	3x20004 4x20004 I:20003	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	3x20005 4x20005 I:20004	1,0x0001 B:00 01			UINT16 R/O	
		1 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	3x20006 4x20006 I:20005	1,0x0001 B:00 01			UINT16 R/O	
		1 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.						
<b>DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI2</b>						
RISE DI2	3x20011 4x20011 I:20010	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 DI2	3x20012 4x20012 I:20011	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 DI2	3x20013 4x20013 I:20012	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 DI2	3x20014 4x20014 I:20013	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 DI2	3x20015 4x20015 I:20014	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 DI2	3x20016 4x20016 I:20015	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 DI3

RISE DI3	3x20021 4x20021 I:20020	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 DI3	3x20022 4x20022 I:20021	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 DI3	3x20023 4x20023 I:20022	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 DI3	3x20024 4x20024 I:20023	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 DI3	3x20025 4x20025 I:20024	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 DI3	3x20026 4x20026 I:20025	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 DI4**

RISE DI4	3x20031 4x20031 I:20030	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 DI4	3x20032 4x20032 I:20031	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 DI4	3x20033 4x20033 I:20032	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 DI4	3x20034 4x20034 I:20033	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 DI4	3x20035 4x20035 I:20034	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 DI4	3x20036 4x20036 I:20035	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.						
<b>DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI5</b>						
RISE DI5	3x20041 4x20041 I:20040	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 DI5	3x20042 4x20042 I:20041	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 DI5	3x20043 4x20043 I:20042	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 DI5	3x20044 4x20044 I:20043	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 DI5	3x20045 4x20045 I:20044	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 DI5	3x20046 4x20046 I:20045	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 DI6**

RISE DI6	3x20051 4x20051 I:20050	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 DI6	3x20052 4x20052 I:20051	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 DI6	3x20053 4x20053 I:20052	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 DI6	3x20054 4x20054 I:20053	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 DI6	3x20055 4x20055 I:20054	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 DI6	3x20056 4x20056 I:20055	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.						
<b>DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI7</b>						
RISE DI7	3x20061 4x20061 I:20060	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 DI7	3x20062 4x20062 I:20061	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 DI7	3x20063 4x20063 I:20062	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 DI7	3x20064 4x20064 I:20063	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 DI7	3x20065 4x20065 I:20064	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 DI7	3x20066 4x20066 I:20065	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 DI8

RISE DI8	3x20071 4x20071 I:20070	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 DI8	3x20072 4x20072 I:20071	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 DI8	3x20073 4x20073 I:20072	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 DI8	3x20074 4x20074 I:20073	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 DI8	3x20075 4x20075 I:20074	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 DI8	3x20076 4x20076 I:20075	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.						
<b>DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI9</b>						
RISE DI9	3x20081 4x20081 I:20080	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 DI9	3x20082 4x20082 I:20081	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 DI9	3x20083 4x20083 I:20082	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 DI9	3x20084 4x20084 I:20083	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 DI9	3x20085 4x20085 I:20084	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 DI9	3x20086 4x20086 I:20085	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 DI10

RISE DI10	3x20091 4x20091 I:20090	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 DI10	3x20092 4x20092 I:20091	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 DI10	3x20093 4x20093 I:20092	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 DI10	3x20094 4x20094 I:20093	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 DI10	3x20095 4x20095 I:20094	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 DI10	3x20096 4x20096 I:20095	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.						
<b>DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI11</b>						
RISE DI11	3x20101 4x20101 I:20100	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 DI11	3x20102 4x20102 I:20101	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 DI11	3x20103 4x20103 I:20102	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 DI11	3x20104 4x20104 I:20103	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 DI11	3x20105 4x20105 I:20104	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 DI11	3x20106 4x20106 I:20105	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 DI12

RISE DI12	3x20111 4x20111 I:20110	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 DI12	3x20112 4x20112 I:20111	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 DI12	3x20113 4x20113 I:20112	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 DI12	3x20114 4x20114 I:20113	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 DI12	3x20115 4x20115 I:20114	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 DI12	3x20116 4x20116 I:20115	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.						
<b>DIGITAL INPUTS: STATUS FOR DIGITAL INPUT DI13</b>						
RISE DI13	3x20121 4x20121 I:20120	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 DI13	3x20122 4x20122 I:20121	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 DI13	3x20123 4x20123 I:20122	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 DI13	3x20124 4x20124 I:20123	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 DI13	3x20125 4x20125 I:20124	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 DI13	3x20126 4x20126 I:20125	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 DI14

RISE DI14	3x20131 4x20131 I:20130	4,0x0004 B:00 04			UINT16 R/O	
		4 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 DI14	3x20132 4x20132 I:20131	4,0x0004 B:00 04			UINT16 R/O	
		4 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 DI14	3x20133 4x20133 I:20132	5,0x0005 B:00 05			UINT16 R/O	
		5 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 DI14	3x20134 4x20134 I:20133	3,0x0003 B:00 03			UINT16 R/O	
		3 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 DI14	3x20135 4x20135 I:20134	1,0x0001 B:00 01			UINT16 R/O	
		1 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 DI14	3x20136 4x20136 I:20135	1,0x0001 B:00 01			UINT16 R/O	
		1 event(s)				

<b>DIGITAL INPUTS</b>				
GET DIGITAL INPUTS	<b>ASCII READ COMMAND</b>	#GET DIS<CR> #GDIS<CR> Result: #GDIS:<DISDec>,<DISHex><CR>	ASCII	
	<b>TX</b>	#GET DIS<CR>		
	<b>RX</b>	#1,GDIS:0,0x0<CR>		
		Current status of digital inputs:0000.0000.0000.0000		
Returns the current state of all 14 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) Bit 6: State of DI7 (=0:OFF, =1:ON) Bit 7: State of DI8 (=0:OFF, =1:ON) Bit 8: State of DI9 (=0:OFF, =1:ON) Bit 9: State of DI10 (=0:OFF, =1:ON) Bit 10: State of DI11 (=0:OFF, =1:ON) Bit 11: State of DI12 (=0:OFF, =1:ON) Bit 12: State of DI13 (=0:OFF, =1:ON) Bit 13: State of DI14 (=0:OFF, =1:ON) Bit 14: Always 0 Bit 15: Always 0				
GET DIGITAL INPUT Dix	<b>ASCII READ COMMAND</b>	#GET DI<DINR><CR> #GDI<DINR><CR> Result: #GDI<DINR>:<DixDec>,<DixHex><CR>	ASCII	
	<b>DINR</b>	1		
	<b>TX</b>	#GET DI1<CR>		
	<b>RX</b>	#1,GDI1:0,0x0<CR>		
		Current status of digital input DI1:0=OFF		
Returns the current state of the digital input Dix as decimal number and as hexadecimal number. X stands for the desired digital input between 1 and 16. DixDec, DixHex: The current state of the digital input x: =0: Digital input is OFF =1: Digital input is ON				
GET ALL CHANGES	<b>ASCII READ COMMAND</b>	#GET ALL CHANGES<CR> #GAC<CR> Result: #GAC:<ChangesDec>,<ChangesHex><CR>	ASCII	
	<b>TX</b>	#GET ALL CHANGES<CR>		
	<b>RX</b>	#1,GAC:2,0x2<CR>		
		Current change counter:2		

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	ASCII READ COMMAND	#CHANGE ALL DIS<CR> #CADIS<CR> Result: #CADIS:<ChangeDI1Dec>,...,<ChangeDI14Dec>,<ChangeDI1Hex>,...,<ChangeDI14Hex><CR>	ASCII	
	<b>TX</b>	#CHANGE ALL DIS<CR>		
	<b>RX</b>	#1,CADIS:2,0,0,0,0,0,0,0,0,0,0,0,0,0,0x2,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0<CR>		
		Current counter for changes on DI1:2		
		Current counter for changes on DI2:0		
		Current counter for changes on DI3:0		
		Current counter for changes on DI4:0		
		Current counter for changes on DI5:0		
		Current counter for changes on DI6:0		
		Current counter for changes on DI7:0		
		Current counter for changes on DI8:0		
		Current counter for changes on DI9:0		
		Current counter for changes on DI10:0		
		Current counter for changes on DI11:0		
		Current counter for changes on DI12:0		
		Current counter for changes on DI13:0		
		Current counter for changes on DI14:0		

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

CHANGE DIx	ASCII READ COMMAND	#CHANGE DI<DINR><CR> #CDI<DINR><CR> Result: #CDI<DINR>:<ChangesDec>,<ChangesHex><CR>	ASCII	
	<b>DINR</b>	1		
	<b>TX</b>	#CHANGE DI1<CR>		
	<b>RX</b>	#1,CDI1:2,0x2<CR>		
		Current counter for changes on digital input DI1:2		

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	<b>ASCII READ COMMAND</b>	#SHORT KEY ALL DIS<CR> #SKADIS<CR> Result: #SKADIS:<ShortKeyDI1Dec>,....,<ShortKeyDI14Dec>, <ShortKeyDI1Hex>,....,<ShortKeyDI14Hex><CR>	ASCII	
	<b>TX</b>	#SHORT KEY ALL DIS<CR>		
	<b>RX</b>	#1,SKADIS:0,0,0,0,0,0,0,0,0,0,0,0,0,0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0<CR>		
		Current counter for short keypress events on DI1:0		
		Current counter for short keypress events on DI2:0		
		Current counter for short keypress events on DI3:0		
		Current counter for short keypress events on DI4:0		
		Current counter for short keypress events on DI5:0		
		Current counter for short keypress events on DI6:0		
		Current counter for short keypress events on DI7:0		
		Current counter for short keypress events on DI8:0		
		Current counter for short keypress events on DI9:0		
		Current counter for short keypress events on DI10:0		
		Current counter for short keypress events on DI11:0		
		Current counter for short keypress events on DI12:0		
		Current counter for short keypress events on DI13:0		
		Current counter for short keypress events on DI14:0		
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.				
SHORT KEY DIx	<b>ASCII READ COMMAND</b>	#SHORT KEY DI<DINR><CR> #SKDI<DINR><CR> Result: #SKDI<DINR>:<ShortKeyDec>,<ShortKeyHex><CR>	ASCII	
	<b>DINR</b>	1		
	<b>TX</b>	#SHORT KEY DI1<CR>		
	<b>RX</b>	#1,SKDI1:0,0x0<CR>		
		Current counter for short keypress events on digital input DI1:0		
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	<b>ASCII READ COMMAND</b>	#LONG KEY START ALL DIS<CR> #LKSADIS<CR> Result: #LKSADIS:<LongKeyStartDI1Dec>,....,<LongKeyStartDI14Dec>, <LongKeyStartDI1Hex>,....,<LongKeyStartDI14Hex><CR>	ASCII	
	<b>TX</b>	#LONG KEY START ALL DIS<CR>		
	<b>RX</b>	#1,LKSADIS:1,0,0,0,0,0,0,0,0,0,0,0,0,0,0x1,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0<CR>		
		Current counter for long keypress start events on DI1:1		
		Current counter for long keypress start events on DI2:0		
		Current counter for long keypress start events on DI3:0		
		Current counter for long keypress start events on DI4:0		
		Current counter for long keypress start events on DI5:0		

		Current counter for long keypress start events on DI6:0		
		Current counter for long keypress start events on DI7:0		
		Current counter for long keypress start events on DI8:0		
		Current counter for long keypress start events on DI9:0		
		Current counter for long keypress start events on DI10:0		
		Current counter for long keypress start events on DI11:0		
		Current counter for long keypress start events on DI12:0		
		Current counter for long keypress start events on DI13:0		
		Current counter for long keypress start events on DI14:0		
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.				
LONG KEY START DIx	<b>ASCII READ COMMAND</b>	#LONG KEY START DI<DINR><CR> #LKSDI<DINR><CR> Result: #LKSDI<DINR>:<LongKeyStartDec>,<LongKeyStartHex><CR>	ASCII	
	<b>DINR</b>	1		
	<b>TX</b>	#LONG KEY START DI1<CR>		
	<b>RX</b>	#1,LKSDI1:1,0x1<CR>		
		Current counter for long keypress start events on digital input DI1:1		
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	<b>ASCII READ COMMAND</b>	#LONG KEY END ALL DIS<CR> #LKEADIS<CR> Result: #LKEADIS:<LongKeyEndDI1Dec>,...,<LongKeyEndDI14Dec>, <LongKeyEndDI1Hex>,...,<LongKeyEndDI14Hex><CR>	ASCII	
	<b>TX</b>	#LONG KEY END ALL DIS<CR>		
	<b>RX</b>	#1,LKEADIS:1,0,0,0,0,0,0,0,0,0,0,0,0,0,0x1,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0<CR>		
		Current counter for long keypress end events on DI1:1		
		Current counter for long keypress end events on DI2:0		
		Current counter for long keypress end events on DI3:0		
		Current counter for long keypress end events on DI4:0		
		Current counter for long keypress end events on DI5:0		
		Current counter for long keypress end events on DI6:0		
		Current counter for long keypress end events on DI7:0		
		Current counter for long keypress end events on DI8:0		
		Current counter for long keypress end events on DI9:0		
		Current counter for long keypress end events on DI10:0		
		Current counter for long keypress end events on DI11:0		
		Current counter for long keypress end events on DI12:0		
		Current counter for long keypress end events on DI13:0		
		Current counter for long keypress end events on DI14:0		
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.				

LONG KEY END DIx	<b>ASCII READ COMMAND</b>	#LONG KEY END DI<DINR><CR> #LKEDI<DINR><CR> Result: #LKEDI<DINR>:<LongKeyEndDec>,<LongKeyEndHex><CR>	ASCII	
	<b>DINR</b>	1		
	<b>TX</b>	#LONG KEY END DI1<CR>		
	<b>RX</b>	#1,LKEDI1:1,0x1<CR>		
Current counter for long keypress end events on digital input DI1:1				
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	<b>ASCII READ COMMAND</b>	#RISE ALL DIS<CR> #RADIS<CR> Result: #RADIS:<RiseDI1Dec>,...,<RiseDI14Dec>,<RiseDI1Hex>,...,<RiseDI14Hex><CR>	ASCII	
	<b>TX</b>	#RISE ALL DIS<CR>		
	<b>RX</b>	#1,RADIS:1,0,0,0,0,0,0,0,0,0,0,0,0,0,0x1,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0<CR>		
		Current counter for rising edges on DI1:1		
		Current counter for rising edges on DI2:0		
		Current counter for rising edges on DI3:0		
		Current counter for rising edges on DI4:0		
		Current counter for rising edges on DI5:0		
		Current counter for rising edges on DI6:0		
		Current counter for rising edges on DI7:0		
		Current counter for rising edges on DI8:0		
		Current counter for rising edges on DI9:0		
		Current counter for rising edges on DI10:0		
		Current counter for rising edges on DI11:0		
		Current counter for rising edges on DI12:0		
		Current counter for rising edges on DI13:0		
		Current counter for rising edges on DI14:0		
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.				
RISE DIx	<b>ASCII READ COMMAND</b>	#RISE DI<DINR><CR> #RDI<DINR><CR> Result: #RDI<DINR>:<RiseDec>,<RiseHex><CR>	ASCII	
	<b>DINR</b>	1		
	<b>TX</b>	#RISE DI1<CR>		
	<b>RX</b>	#1,RDI1:1,0x1<CR>		
		Current counter for rising edges on digital input DI1:1		
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	<b>ASCII READ COMMAND</b>	#FALL ALL DIS<CR> #FADIS<CR> Result: #FADIS:<FallDI1Dec>,...,<FallDI14Dec>,<FallDI1Hex>,...,<FallDI14Hex><CR>	ASCII	
	<b>TX</b>	#FALL ALL DIS<CR>		
	<b>RX</b>	#1,FADIS:1,0,0,0,0,0,0,0,0,0,0,0,0,0,0x1,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0<CR>		

		Current counter for falling edges on DI1:1		
		Current counter for falling edges on DI2:0		
		Current counter for falling edges on DI3:0		
		Current counter for falling edges on DI4:0		
		Current counter for falling edges on DI5:0		
		Current counter for falling edges on DI6:0		
		Current counter for falling edges on DI7:0		
		Current counter for falling edges on DI8:0		
		Current counter for falling edges on DI9:0		
		Current counter for falling edges on DI10:0		
		Current counter for falling edges on DI11:0		
		Current counter for falling edges on DI12:0		
		Current counter for falling edges on DI13:0		
		Current counter for falling edges on DI14:0		
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.				
FALL DIx	<b>ASCII READ COMMAND</b>	#FALL DI<DINR><CR> #FDI<DINR><CR> Result: #FDI<DINR>:<FallDec>,<FallHex><CR>	ASCII	
	<b>DINR</b>	1		
	<b>TX</b>	#FALL DI1<CR>		
	<b>RX</b>	#1,FDI1:1,0x1<CR>		
		Current counter for falling edges on digital input DI1:1		
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	<b>ASCII WRITE COMMAND</b>	#RESET COUNTERS<CR> #RC<CR> Result: #OK<CR>	ASCII	NO
	<b>TX</b>	#RESET COUNTERS<CR>		
	<b>RX</b>	N/A		
Resets all internal counters for digital inputs and events on this digital inputs to 0.				