



8026723 1023

OD2000-7002T15

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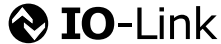
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Please note the validity of the additional operating instructions for automation functions

1. Physical layer

Note: The IO-Link Device's max. current consumption (inclusive load current) shall not exceed the master port's max. output power current.

SIO Modus	yes
Min Cycle Time	0.7 ms
Baudrate ²	COM3
Process Data Length (IN)	6 Byte
IODD version	V2.0.0
Valid for IO-Link version	1.1

2. Process data

Record: 6 Byte

Condition: ISDU: Process Data Select, Index: 120, Subindex: 0, Value: 0

Bitoffset																			
Byte 0	Distance	47	46	45	44	43	42	41	40										
Type/Subindex	Integer 32																		
Bitoffset																			
Byte 1	Distance	39	38	37	36	35	34	33	32										
Type/Subindex	Integer 32																		
Bitoffset																			
Byte 2	Distance	31	30	29	28	27	26	25	24										
Type/Subindex	Integer 32																		
Bitoffset																			
Byte 3	Distance	23	22	21	20	19	18	17	16										
Type/Subindex	Integer 32																		
Bitoffset																			
Byte 4	Scale	15	14	13	12	11	10	9	8										
Type/Subindex	Integer 8																		
Bitoffset																			
Byte 5		7	6	5	4	3	2	1	0										
Type/Subindex																Q2	Q1	0	
																Boolean	3	Boolean	4

Record: 6 Byte

Condition: ISDU: Process Data Select, Index: 120, Subindex: 0, Value: 1

Bitoffset																			
Byte 0	Level	47	46	45	44	43	42	41	40										
Type/Subindex	Integer 32																		
Bitoffset																			
Byte 1	Level	39	38	37	36	35	34	33	32										
Type/Subindex	Integer 32																		
Bitoffset																			
Byte 2	Level	31	30	29	28	27	26	25	24										
Type/Subindex	Integer 32																		
Bitoffset																			
Byte 3	Level	23	22	21	20	19	18	17	16										
Type/Subindex	Integer 32																		
Bitoffset																			
Byte 4		15	14	13	12	11	10	9	8										
Type/Subindex																			
Bitoffset																			
Byte 5		7	6	5	4	3	2	1	0										
Type/Subindex																Q2	Q1	0	
																Boolean	2	Boolean	3

¹ ro = read only, wo = write only, rw = read/write

² COM values specify the bitrate (see IO-Link specification): COM1 (4,8 kbit/s), COM2 (38,4 kbit/s), COM3 (230,4 kbit/s)



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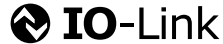
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

Record: 6 Byte
Condition: ISDU: Process Data Select, Index: 120, Subindex: 0, Value: 2

Bitoffset																		
Byte 0	Timer	47	46	45	44	43	42	41	40									
Type/Subindex	Integer 32																	
Bitoffset																		
Byte 1	Timer	39	38	37	36	35	34	33	32									
Type/Subindex	Integer 32																	
Bitoffset																		
Byte 2	Timer	31	30	29	28	27	26	25	24									
Type/Subindex	Integer 32																	
Bitoffset																		
Byte 3	Timer	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	
Type/Subindex	Integer 32																	
Bitoffset																		
Byte 4																		
Type/Subindex																		
Bitoffset																		
Byte 5															Q2	Q1	0	
Type/Subindex															Boolean	2	Boolean	3

Record: 6 Byte
Condition: ISDU: Process Data Select, Index: 120, Subindex: 0, Value: 3

Bitoffset																		
Byte 0	Edge height	47	46	45	44	43	42	41	40									
Type/Subindex	Integer 32																	
Bitoffset																		
Byte 1	Edge height	39	38	37	36	35	34	33	32									
Type/Subindex	Integer 32																	
Bitoffset																		
Byte 2	Edge height	31	30	29	28	27	26	25	24									
Type/Subindex	Integer 32																	
Bitoffset																		
Byte 3	Edge height	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	
Type/Subindex	Integer 32																	
Bitoffset																		
Byte 4																		
Type/Subindex																		
Bitoffset																		
Byte 5															Q2	Q1	0	
Type/Subindex															Boolean	2	Boolean	3

Record: 6 Byte
Condition: ISDU: Process Data Select, Index: 120, Subindex: 0, Value: 4

Bitoffset																
Byte 0	Distance	47	46	45	44	43	42	41	40							
Type/Subindex	Integer 32															
Bitoffset																
Byte 1	Distance	39	38	37	36	35	34	33	32							
Type/Subindex	Integer 32															
Bitoffset																
Byte 2	Distance	31	30	29	28	27	26	25	24							
Type/Subindex	Integer 32															

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2 COM values specify the bitrate (see IO-Link specification): COM1 (4,8 kbit/s), COM2 (38,4 kbit/s), COM3 (230,4 kbit/s)



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China Phone +86 400 121 000 +862353 6300	Russia Phone +7 495 775 09 30
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Deutschland Phone +49 211 5361 301	Slovenija Phone +386 (0)147 69 990
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Bitoffset												16
Byte 3	Distance	23	22	21	20	19	18	17				16
Type/Subindex	Integer 32											1

Bitoffset												8
Byte 4	Scale	15	14	13	12	11	10	9				8
Type/Subindex	Integer 8											2

Bitoffset												2	1	0			
Byte 5	Peak width	7	6	5	4	3	2	1	0				0				
Type/Subindex	Unsigned Integer 6											3	Q2	Q1	4	Boolean	5

Record: 6 Byte
Condition: ISDU: Process Data Select, Index: 120, Subindex: 0, Value: 5

Bitoffset												40
Byte 0	Absolute distance	47	46	45	44	43	42	41				40
Type/Subindex	Unsigned Integer 32											

Bitoffset												32
Byte 1	Absolute distance	39	38	37	36	35	34	33				32
Type/Subindex	Unsigned Integer 32											

Bitoffset												24
Byte 2	Absolute distance	31	30	29	28	27	26	25				24
Type/Subindex	Unsigned Integer 32											

Bitoffset												16
Byte 3	Absolute distance	23	22	21	20	19	18	17				16
Type/Subindex	Unsigned Integer 32											1

Bitoffset												8
Byte 4	Scale	15	14	13	12	11	10	9				8
Type/Subindex	Integer 8											2

Bitoffset												2	1	0		
Byte 5	Peak width	7	6	5	4	3	2	1	0				0			
Type/Subindex	Unsigned Integer 6											3	Boolean	4	Boolean	5

3. Service data

The following ISDUs will not be saved via Data-Storage: Teach-in channel, Device specific tag, Sender configuration, Find me and Device ID setup

IO-Link specific		Index (dec) (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
		12 (0x0C)	Device Access Locks	Record	2 Byte	rw			The access to the device parameters can be restricted by setting appropriate flags within this parameter.
		2 (0x02)	Data Storage	Bool (1)	1 Bit	rw	0	true = Locked false = Unlocked	
		4 (0x04)	Local User Interface	Bool (3)	1 Bit	rw	0	true = Locked false = Unlocked	
		16 (0x10)	Vendor Name	String	7 Byte	ro	SICK AG		The vendor name that is assigned to a Vendor ID.
		17 (0x11)	Vendor Text	String	64 Byte	ro	www.sick.com		Additional information about the vendor.
		18 (0x12)	Product Name	String	18 Byte	ro	OD2000-7002T15		Complete product name.
		19 (0x13)	Product ID	String	7 Byte	ro	6074385		Vendor-specific product or type identification (e.g., item number or model number).
		20 (0x14)	Product Text	String	45 Byte	ro	Displacement Sensor		Additional product information for the device.
		21 (0x15)	Serial Number	String	11 Byte	ro			Unique, vendor-specific identifier of the individual device.
		22 (0x16)	Hardware Revision	String	4 Byte	ro			Unique, vendor-specific identifier of the hardware revision of the individual device.
		23 (0x17)	Firmware Revision	String	19 Byte	ro			Unique, vendor-specific identifier of the firmware revision of the individual device.
		24 (0x18)	Application-specific Tag	String	32 Byte	rw	*****		Possibility to mark a device with user- or application-specific information.
		32 (0x20)	Error Count	UInt	16 Bit	ro	0		Number of errors that occurred in the technology-specific application since power on or restart.

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IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark (Unit)
36 (0x24)	Device Status	UInt	8 Bit	ro	0	0 = Device is OK 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure	Indicator for the current device condition and diagnosis state.
37 (0x25)	Detailed Device Status	Array	9 Byte	ro		Octet String [3]	List of all currently pending events in the device.
40 (0x28)	PD Input	PD In	6 Byte	ro			Last valid process input data of the device.
SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark (Unit)
13 (0x0D)	Profile characteristic	Array	4 Byte	ro		Unsigned Integer16 [2]	Smart Sensore Profile Characteristics
14 (0x0E)	PDInput descriptor	Array	9 Byte	ro		Octet String [3]	Smart Sensor Profile Process data description (only valid for distance; see index 120)
15 (0x0F)	PDOutput descriptor	Array	3 Byte	ro		Octet String [1]	Smart Sensor Profile Process data description
25 (0x19)	Function Tag	String	32 Byte	rw	*****		
26 (0x1A)	Location Tag	String	32 Byte	rw	*****		
58 (0x3A)	Teach-in channel	UInt	8 Bit	rw	0	0 = default Q = Q1 1 = Q1 2 = Q2	
59 (0x3B)	Teach-in status	Record	1 Byte	ro			
1 (0x01)	Teach flag SP2 (near)	Bool (6)	1 Bit	ro	0	true = Teachpoint successfully taught false = Teachpoint not taught	
2 (0x02)	Teach flag SP1 (far)	Bool (4)	1 Bit	ro	0	true = Teachpoint successfully taught false = Teachpoint not taught	
3 (0x03)	Teach state	UInt (0)	4 Bit	ro	0	0 = IDLE 1 = SP1 success 2 = SP2 success 3 = SP12 success 4 = Wait for command 5 = Busy 6 = Reserved 7 = Error	
60 (0x3C)	Q1 SP1 / SP2	Record	8 Byte	rw			
1 (0x01)	Q1 SP1 sensing range	Int (32)	32 Bit	rw	0	-1200000000...1200000000	[nm]
2 (0x02)	Q1 SP2 sensing range	Int (0)	32 Bit	rw	500000000	-1200000000...1200000000	[nm]
61 (0x3D)	Q1 configuration	Record	6 Byte	rw			
1 (0x01)	Q1 Switchpoint logic	UInt (40)	8 Bit	rw	0	0 = High-active (Not inverted) 1 = Low-active (Inverted)	
2 (0x02)	Q1 Switchpoint mode	UInt (32)	8 Bit	rw	1	0 = Deactivated 1 = Single point (SP1) 2 = Window (SP1, SP2) 128 = Window ± set point offset (SP1) 130 = Alarm 131 = Signal level warning 132 = Edge height jump	
3 (0x03)	Q1 Switchpoint hysteresis	UInt (0)	32 Bit	rw	1500000	0...2147483647	
62 (0x3E)	Q2 SP1 / SP2	Record	8 Byte	rw			
1 (0x01)	Q2 SP1 sensing range	Int (32)	32 Bit	rw	-500000000	-1200000000...1200000000	[nm]
2 (0x02)	Q2 SP2 sensing range	Int (0)	32 Bit	rw	500000000	-1200000000...1200000000	[nm]
63 (0x3F)	Q2 configuration	Record	6 Byte	rw			
1 (0x01)	Q2 Switchpoint logic	UInt (40)	8 Bit	rw	0	0 = High-active (Not inverted) 1 = Low-active (Inverted)	
2 (0x02)	Q2 Switchpoint mode	UInt (32)	8 Bit	rw	1	0 = Deactivated 1 = Single point (SP1) 2 = Window (SP1, SP2) 128 = Window ± set point offset (SP1) 130 = Alarm 131 = Signal level warning 132 = Edge height jump	
3 (0x03)	Q2 Switchpoint hysteresis	UInt (0)	32 Bit	rw	1500000	0...2147483647	
64 (0x40)	Device specific tag	String	32 Byte	rw	*****		
93 (0x5D)	Setup edge height jump Q1	Record	17 Byte	rw			With reference to index 61-2, 0x84 Edge Height Jump
1 (0x01)	Cycle offset	UInt (104)	32 Bit	rw	50	1...10000	
2 (0x02)	Min. height jump	Int (72)	32 Bit	rw	10000000	0...2147483647	

¹ ro = read only, wo = write only, rw = read/write

² COM values specify the bitrate (see IO-Link specification): COM1 (4,8 kbit/s), COM2 (38,4 kbit/s), COM3 (230,4 kbit/s)



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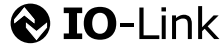
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Please note the validity of the additional operating instructions for automation functions

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SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark (Unit)
3 (0x03)	Max. height jump	Int (40)	32 Bit	rw	100000000	0...2147483647	
4 (0x04)	Hysteresis	Int (8)	32 Bit	rw	1500000	0...2147483647	
5 (0x05)	Jump direction	UInt (0)	8 Bit	rw	2	0 = Positive 1 = Negative 2 = Both edges	
94 (0x5E)	Setup edge height jump Q2	Record	17 Byte	rw			With reference to index 63-2, 0x84 Edge Height Jump
1 (0x01)	Cycle offset	UInt (104)	32 Bit	rw	50	1...10000	
2 (0x02)	Min. height jump	Int (72)	32 Bit	rw	100000000	0...2147483647	
3 (0x03)	Max. height jump	Int (40)	32 Bit	rw	100000000	0...2147483647	
4 (0x04)	Hysteresis	Int (8)	32 Bit	rw	1500000	0...2147483647	
5 (0x05)	Jump direction	UInt (0)	8 Bit	rw	2	0 = Positive 1 = Negative 2 = Both edges	
97 (0x61)	Sender configuration	UInt	8 Bit	rw	0	0 = Sender active 1 = Sender not active	
120 (0x78)	Process Data Select	UInt	8 Bit	rw	0	0 = Distance and switching outputs 1 = Level and switching outputs 2 = Timer and switching outputs 3 = Edge height and switching outputs 4 = Distance, peak width, and switching outputs 5 = Absolute distance, peak width, and switching outputs	Values 0 and 4 indicate the relative distance value. Value 5 indicates the absolute distance value.
121 (0x79)	Pin 2 configuration	UInt	8 Bit	rw	37	0 = Deactivated 34 = Switching signal Q2 37 = Current output 38 = Voltage output 40 = Switching signal /Q1	
122 (0x7A)	Pin 5 configuration	UInt	8 Bit	rw	16	0 = Deactivated 16 = Sender off 80 = Measured value 81 = Peak value 82 = Lowest value 83 = Peak-to-peak value 84 = Average value 85 = Zero point teach-in 86 = Auto peak value 87 = Auto lowest value 88 = Normal	
153 (0x99)	Temperature	Record	1 Byte	ro			Sensor-internal temperature
1 (0x01)	Current temperature	Int (0)	8 Bit	ro	0		[°C]
175 (0xAF)	Signal level	UInt	16 Bit	ro	0		Read current signal level (intensity value)
176 (0xB0)	Signal level threshold	UInt	16 Bit	rw	1700	0...5000	Sets threshold for Signal level warning
190 (0xBE)	Operating hours	Record	8 Byte	ro			
1 (0x01)	Operating hours sensor	UInt (32)	32 Bit	ro	0		[h]
2 (0x02)	Operating hours Laser	UInt (0)	32 Bit	ro	0		[h]
204 (0xCC)	Find me	UInt	8 Bit	rw	0	0 = Find me deactivated 1 = Find me activated	
205 (0xCD)	SICK-profile version	String	4 Byte	ro	1.01		
226 (0xE2)	System state	Record	2 Byte	ro			Communication and sensor application status
1 (0x01)	Input signal state Pin 5	Bool (7)	1 Bit	ro	0	true = External input HIGH false = External input LOW	
227 (0xE3)	Notification handling	UInt	8 Bit	rw	0	0 = All enabled 1 = All disabled 2 = Events enabled, PD invalid flag disabled 3 = Events disabled, PD invalid flag enabled	
229 (0xE5)	Distance to object	Record	5 Byte	ro			Read current distance to object / distance to background
1 (0x01)	Distance	Int (8)	32 Bit	ro	0		[nm]
2 (0x02)	Distance qualifier	UInt (0)	8 Bit	ro	0	0 = Distance in range 1 = Distance over-run 2 = Distance under-run 3 = No distance information	
234 (0xEA)	Display settings	Record	5 Byte	rw			

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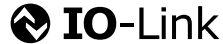
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SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark (Unit)
1 (0x01)	Display brightness	UInt (32)	8 Bit	rw	30	10 = 10% 20 = 20% 30 = 30% 40 = 40% 50 = 50% 60 = 60% 70 = 70% 80 = 80% 90 = 90% 100 = 100%	
2 (0x02)	Eco mode	UInt (16)	16 Bit	rw	300	0 = Deactivated 10 = 10 s 20 = 20 s 60 = 60 s 300 = 300 s 1200 = 1200 s 3600 = 3600 s	By enabling the eco mode, display is deactivated 20 seconds after last key was pushed.
3 (0x03)	Turn display	UInt (8)	8 Bit	rw	0	0 = 0° 1 = 180°	This function turns the display figures by 180°.
4 (0x04)	Display language	UInt (0)	8 Bit	rw	1	1 = English 2 = German 6 = Spanish 7 = Chinese 8 = Japanese	
1085 (0x43D)	Q1 Timer mode	UInt	8 Bit	rw	0	0 = Deactivated 1 = T-on delay 2 = T-off delay 3 = T-on/T-off delay 4 = Impulse (one shot)	
1086 (0x43E)	Q2 Timer mode	UInt	8 Bit	rw	0	0 = Deactivated 1 = T-on delay 2 = T-off delay 3 = T-on/T-off delay 4 = Impulse (one shot)	
1087 (0x43F)	Q1 Timer setup	UInt	16 Bit	rw	1	1...30000	Q1 Timer setup time in ms [ms]
1088 (0x440)	Q2 Timer setup	UInt	16 Bit	rw	1	1...30000	Q2 Timer setup time in ms [ms]
1093 (0x445)	Pin 5 input logic	UInt	8 Bit	rw	0	0 = High-active (Not inverted) 1 = Low-active (Inverted)	
4367 (0x110F)	Region of interest	Record	8 Byte	rw			Setup for ROI near and far limit
1 (0x01)	ROI near	Int (32)	32 Bit	rw	-505000000	-505000000...550000000	Near limit value has to be smaller than far limit value [nm]
2 (0x02)	ROI far	Int (0)	32 Bit	rw	550000000	-505000000...550000000	Far limit value has to be higher than near limit value [nm]
4368 (0x1110)	Cycle time	UInt	16 Bit	rw	0	0 = Auto 133 = 0.133 ms 150 = 0.15 ms 200 = 0.2 ms 300 = 0.3 ms 500 = 0.5 ms 1000 = 1 ms 2000 = 2 ms 5000 = 5 ms	
4369 (0x1111)	Peak selection	UInt	8 Bit	rw	0	0 = Auto 1 = 1st peak far to near 2 = 2nd peak far to near 3 = 1st peak near to far 4 = 2nd peak near to far 5 = Peak width	
4371 (0x1113)	Q1 tolerance	Int	32 Bit	rw	4000000	0...2147483647	SP1 tolerance [nm] [nm]
4372 (0x1114)	Q2 tolerance	Int	32 Bit	rw	4000000	0...2147483647	SP1 tolerance [nm] [nm]
4373 (0x1115)	Average filter	UInt	16 Bit	rw	128	1 = Deactivated 4 = 4 8 = 8 16 = 16 32 = 32 64 = 64 128 = 128 256 = 256 512 = 512	

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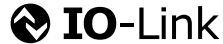
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SICK device specific							
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4374 (0x1116)	Median filter	UInt	16 Bit	rw	31	0 = Deactivated 3 = 3 7 = 7 15 = 15 31 = 31	
4375 (0x1117)	Measurement direction	UInt	8 Bit	rw	0	0 = Positive 1 = Negative	
4376 (0x1118)	Measurement value offset	Int	32 Bit	rw	0	-1000000000...1000000000	[nm]
4377 (0x1119)	Error suppression time	UInt	32 Bit	rw	1	1...100000	[ms]
4378 (0x111A)	Substitute value	Int	32 Bit	rw	2000000000	-2000000000...2000000000	[nm]
4379 (0x111B)	Error Mode	UInt	8 Bit	rw	0	0 = User-defined value 1 = Hold last value 2 = Hold last value + timer	
4380 (0x111C)	Calibration	Record	16 Byte	rw			
1 (0x01)	1st point current value	Int (96)	32 Bit	rw	0		
2 (0x02)	1st point set value	Int (64)	32 Bit	rw	0		
3 (0x03)	2nd point current value	Int (32)	32 Bit	rw	0		
4 (0x04)	2nd point set value	Int (0)	32 Bit	rw	0		
4381 (0x111D)	Calibration span	Float	4 Byte	rw	1.0	-2.0...2.0	
4382 (0x111E)	Min peak width	UInt	16 Bit	rw	4	0...100	Defines the lower peak width limit when selecting "Peak width" of index 4369.
4383 (0x111F)	Max peak width	UInt	16 Bit	rw	30	0...100	Defines the upper peak width limit when selecting "Peak width" of index 4369.
4384 (0x1120)	Peak width	UInt	16 Bit	ro	0		Returns the current peak width value.
4389 (0x1125)	Error history	Array	130 Byte	ro	0	Unsigned Integer8 [130]	
4400 (0x1130)	Pin 5 debouncing	Bool	1 Bit	rw	0	true = Yes false = No	
4534 (0x11B6)	Firmware verification	Record	38 Byte	ro			Verification code and build date for verification of all firmware parts
1 (0x01)	Firmware verification	Str (152)	19 Byte	ro			
2 (0x02)	Firmware build date	Str (0)	19 Byte	ro			
16000 (0x3E80)	Device ID setup	UInt	32 Bit	rw	8389428	8389290 8389428	Device ID change becomes active after next power cycle of the device. Device IDs supported: see value range.
16512 (0x4080)	MDC Descriptor	Record	11 Byte	ro			
1 (0x01)	Lower limit	Int (56)	32 Bit	ro	-500000000	-2147482880...2147482880	Lower value measurement range
2 (0x02)	Upper limit	Int (24)	32 Bit	ro	500000000	-2147482880...2147482880	Upper value measurement range
3 (0x03)	Unit code	UInt (8)	16 Bit	ro	1010		
4 (0x04)	Scale	Int (0)	8 Bit	ro	-9	-128...127	

Standard command					
Index dec (hex)	Name	Access ¹	Value	Name	Remark (Unit)
2 (0x02)	System Command	wo	65	SP1 (near) Single Value Teach	
			66	SP2 (far) Single Value Teach	
			129	Application Reset	
			130	Restore Factory Settings	
			192	Save Customer Settings	
			193	Restore Customer Settings	
			194	Zero point teach	
			195	Zero point reset	
			196	Calibration	

Events			
Code dec (hex)	Name	Type	Remark (Unit)
16912 (0x4210)	Device temperature overrun	Warning	Clear source of heat
16928 (0x4220)	Device temperature underrun	Warning	Insulate device
30480 (0x7710)	Short circuit	Error	Check installation
36001 (0x8CA1)	New parameters	Notification	Parameters have been changed

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