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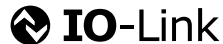
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

1. Physical layer

- Power-on time: < 5s
- Return time SIO-mode: 60ms < TDSIO < 400ms
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	4.6 ms
Baudrate ²	COM2
Process Data Length (IN)	6 Byte
IODD version	V2.0
Valid for IO-Link version	1.1.0

2. Process data

Flowrate in mL/min
Temperature in 0.01 °C
Device state: 0=Failure, 1=Warning, 2=OK

Record: 6 Byte

Bitoffset									
Byte 0	Temperature	47	46	45	44	43	42	41	40
Type/Subindex	Integer 16								

Bitoffset									
Byte 1	Temperature	39	38	37	36	35	34	33	32
Type/Subindex	Integer 16								

Bitoffset									
Byte 2	Flowrate	31	30	29	28	27	26	25	24
Type/Subindex	Integer 24								

Bitoffset									
Byte 3	Flowrate	23	22	21	20	19	18	17	16
Type/Subindex	Integer 24								

Bitoffset									
Byte 4	Flowrate	15	14	13	12	11	10	9	8
Type/Subindex	Integer 24								

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

3. Service data

The following ISDUs will not be saved via Data-Storage: Device Access Locks, Part Number, Q1Sim, Q2Sim, Q2Sim (Frequency), QaSim, QbSim, QcSim, Sim Flow, Sim Temperature and Special action scratchpad

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			
1 (0x01)	Parameter (write) Access Lock	Bit (0)	1 Bit	rw			
2 (0x02)	Data Storage Lock	Bit (1)	1 Bit	rw			
3 (0x03)	Local Parameterization Lock	Bit (2)	1 Bit	rw			
4 (0x04)	Local User Interface Lock	Bit (3)	1 Bit	rw			
19 (0x13)	Product ID	String	64 Byte	ro			
20 (0x14)	Product Text	String	64 Byte	ro			
21 (0x15)	Serial Number	String	16 Byte	ro			
22 (0x16)	Hardware Version	String	64 Byte	ro			
23 (0x17)	Firmware Version	String	64 Byte	ro			
24 (0x18)	Application Specific Tag	String	32 Byte	rw	***		
36 (0x24)	Device Status	UInt	8 Bit	ro		0 = Device is OK 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure 5...255 = Reserved	
40 (0x28)	Process Data Input	PD In	6 Byte	ro			

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
64 (0x40)	Device Specific Tag	String	32 Byte	rw	***		
90 (0x5A)	Part Number	String	8 Byte	ro	Part Number		
175 (0xAF)	Health Level	UInt	8 Bit	ro	0...100	[%]	

¹ro = read only, wo = write only, rw = read/write / ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben

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

DEUTSCH

1. Physikalische Schicht

- Einschaltzeit: < 5s
- Rückstellzeit SIO-Modus: 60ms < TDSIO < 400ms
Hinweis: Max. Stromaufnahme des IO-Link Devices (inkl. Lastströme) darf max. Ausgangsstrom des Master-Ports nicht überschreiten.

SIO Modus	ja
Min. Zykluszeit	4.6 ms
Baudrate ²	COM2
Prozessdatenlänge (IN)	6 Byte
IODD Version	V2.0
Gültig für IO-Link Version	1.1.0

2. Prozessdaten

Durchfluss in mL/min
Temperatur in 0.01 °C
Systemzustand: 0=Fehler, 1=Warnung, 2=OK

Record: 6 Byte

Bitoffset									
Byte 0	Temperatur	47	46	45	44	43	42	41	40
Type/Subindex	Integer 16								

Bitoffset									
Byte 1	Temperatur	39	38	37	36	35	34	33	32
Type/Subindex	Integer 16								

Bitoffset									
Byte 2	Durchfluss	31	30	29	28	27	26	25	24
Type/Subindex	Integer 24								

Bitoffset									
Byte 3	Durchfluss	23	22	21	20	19	18	17	16
Type/Subindex	Integer 24								

Bitoffset									
Byte 4	Durchfluss	15	14	13	12	11	10	9	8
Type/Subindex	Integer 24								

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

3. Servicedaten

Die folgenden ISDUs werden nicht über Data-Storage gesichert: Gerätezugriffssperren, Artikelnummer, Q1Sim, Q2Sim, Q2Sim (Frequenz), QaSim, QbSim, QcSim, Simulierte Durchfluss, Simulierte Temperatur und Sonderfunktion Speicher

IO-Link spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
12 (0x0C)	Gerätezugriffssperren	Record	2 Byte	rw			
1 (0x01)	Parameter (Schreib-)Zugriffssperre	Bit (0)	1 Bit	rw			
2 (0x02)	Datenspeicherungs-sperre	Bit (1)	1 Bit	rw			
3 (0x03)	Lokale Parameterisierungssperre	Bit (2)	1 Bit	rw			
4 (0x04)	Lokale Benutzerinter-face-Sperre	Bit (3)	1 Bit	rw			
19 (0x13)	Produkt-ID	String	64 Byte	ro			
20 (0x14)	Produkttext	String	64 Byte	ro			
21 (0x15)	Seriennummer	String	16 Byte	ro			
22 (0x16)	Hardwareversion	String	64 Byte	ro			
23 (0x17)	Firmwareversion	String	64 Byte	ro			
24 (0x18)	Anwendungsspezifi-sche Markierung	String	32 Byte	rw	***		
36 (0x24)	Gerätestatus	UInt	8 Bit	ro		0 = Gerät ist OK 1 = Wartung erforderlich 2 = Außerhalb der Spezifikation 3 = Funktionsprüfung 4 = Fehler 5...255 = Reserviert	
40 (0x28)	Prozessdaten Eingang	PD In	6 Byte	ro			

SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
64 (0x40)	Device Specific Tag	String	32 Byte	rw	***		
90 (0x5A)	Artikelnummer	String	8 Byte	ro	Artikelnummer		
175 (0xAF)	Health Level	UInt	8 Bit	ro	0...100	[%]	



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España Phone +34 93 480 31 00	South Africa Phone +27 11 472 3733
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ENGLISH						
SICK device specific						
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range Remark [Unit]
190 (0xBE)	OpTimer	UInt	32 Bit	ro		Operation seconds counter
205 (0xCD)	Profile Version	String	4 Byte	ro		
260 (0x104)	Q1Mode	UInt	8 Bit	rw	0 = Output 1 = Input	Output or Input
262 (0x106)	Q1Typ	UInt	8 Bit	rw	2 = NPN 3 = PNP 4 = DRV 5 = OC	Output Driver
265 (0x109)	Q1Act	UInt	8 Bit	rw	0 = Reset 1 = Disable Low Flow CutOff	Input action
267 (0x10B)	Q1Proc	UInt	8 Bit	rw	1 = Flow 3 = Temperature 4 = Status output	Process parameter
268 (0x10C)	Q1Out	UInt	8 Bit	rw	0 = Hysteresis 1 = Window	Switching output mode
269 (0x10D)	Q1Stat	UInt	8 Bit	rw	0 = Failure 1 = Empty pipe 2 = Sterilization 3 = Negative Flow	Status output assignment
270 (0x10E)	Q1SP/FH (Flow)	Int	32 Bit	rw	- 250000... 250000	Q1SP: Set point / Q1FH: High limit point (Internal value in mL/min) [L/min]
271 (0x10F)	Q1RP/FL (Flow)	Int	32 Bit	rw	- 250000... 250000	Q1RP: Reset point / Q1FL: Low limit point (Internal value in mL/min) [L/min]
272 (0x110)	Q1SP/FH (Temperature)	Int	32 Bit	rw	0...15000	Q1SP: Set point / Q1FH: High limit point (Internal value in 0.01 °C) [°C]
273 (0x111)	Q1RP/FL (Temperature)	Int	32 Bit	rw	0...15000	Q1RP: Reset point / Q1FL: Low limit point (Internal value in 0.01 °C) [°C]
278 (0x116)	Q1Pol	UInt	8 Bit	rw	0 = normally open 1 = normally closed	Polarity
279 (0x117)	Q1Sim	UInt	8 Bit	rw	0 = Inactive 1 = Active 255 = SimOff	Simulate Q1
290 (0x122)	Q2Mode	UInt	8 Bit	rw	0 = Output 1 = Input	Output or Input
291 (0x123)	Q2Func	UInt	8 Bit	rw	0 = Switching output 1 = Pulsed Output 2 = Frequency Output	Output function
292 (0x124)	Q2Typ	UInt	8 Bit	rw	2 = NPN 3 = PNP 4 = DRV 5 = OC	Output Driver
295 (0x127)	Q2Act	UInt	8 Bit	rw	0 = Reset Volume counter 1 = Disable Low Flow CutOff	Input action
297 (0x129)	Q2Proc	UInt	8 Bit	rw	1 = Flow 3 = Temperature 4 = Status output	Process parameter
298 (0x12A)	Q2Out	UInt	8 Bit	rw	0 = Hysteresis 1 = Window	Switching output mode

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DEUTSCH						
SICK spezifisch						
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich Bemerkung [Einheit]
190 (0xBE)	Betriebssekundenzähler	UInt	32 Bit	ro		Betriebssekundenzähler [s]
205 (0xCD)	Profil Version	String	4 Byte	ro		
260 (0x104)	Q1Mode	UInt	8 Bit	rw	0 = Ausgang 1 = Eingang	Ausgang oder Eingang
262 (0x106)	Q1Typ	UInt	8 Bit	rw	2 = NPN 3 = PNP 4 = DRV 5 = OC	Ausgangsstufe
265 (0x109)	Q1Act	UInt	8 Bit	rw	0 = Volumen- zähler zurückset- zen 1 = Schleich- mengen- unter- druckung deaktivie- ren	Eingangsaktion
267 (0x10B)	Q1Proc	UInt	8 Bit	rw	1 = Durch- fluss 3 = Temper- atur 4 = Status- ausgang	Prozessparameter
268 (0x10C)	Q1Out	UInt	8 Bit	rw	0 = Hyste- rese 1 = Fen- ster	Schaltausgangsmodus
269 (0x10D)	Q1Stat	UInt	8 Bit	rw	0 = Fehler 1 = Leer- rohr 2 = Sterili- sation 3 = Negat- iv Fluss	Statusausgangszuordnung
270 (0x10E)	Q1SP/FH (Durchfluss)	Int	32 Bit	rw	- 250000... 250000	Q1SP: Schaltpunkt / Q1FH: Oberer Fenster- rand (Wert intern in mL/min) [L/min]
271 (0x10F)	Q1RP/FL (Durchfluss)	Int	32 Bit	rw	- 250000... 250000	Q1RP: Rückschalt- punkt / Q1FL: Unterer Fenster- rand (Wert intern in mL/min) [L/min]
272 (0x110)	Q1SP/FH (Temperatur)	Int	32 Bit	rw	0...15000	Q1SP: Schaltpunkt / Q1FH: Oberer Fenster- rand (Wert intern in 0.01 °C) [°C]
273 (0x111)	Q1RP/FL (Temperatur)	Int	32 Bit	rw	0...15000	Q1RP: Rückschalt- punkt / Q1FL: Unterer Fenster- rand (Wert intern in 0.01 °C) [°C]
278 (0x116)	Q1Pol	UInt	8 Bit	rw	0 = Schlie- ßer 1 = Öffner	Polarität
279 (0x117)	Q1Sim	UInt	8 Bit	rw	0 = Inaktiv 1 = Aktiv 255 = Si- mOff	Simuliere Q1
290 (0x122)	Q2Mode	UInt	8 Bit	rw	0 = Aus- gang 1 = Ein- gang	Ausgang oder Eingang
291 (0x123)	Q2Func	UInt	8 Bit	rw	0 = Schalt- ausgang 1 = Im- pulsaus- gang 2 = Fre- quenz- ausgang	Ausgangsfunktion
292 (0x124)	Q2Typ	UInt	8 Bit	rw	2 = NPN 3 = PNP 4 = DRV 5 = OC	Ausgangsstufe
295 (0x127)	Q2Act	UInt	8 Bit	rw	0 = Volu- menzähler zurückset- zen 1 = Schleich- mengen- unter- druckung deaktivie- ren	Eingangsaktion



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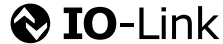
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SICK device specific						
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range Remark [Unit]
299 (0x12B)	Q2Stat	UInt	8 Bit	rw	0 = Failure 1 = Empty pipe 2 = Sterilization 3 = Negative Flow	Status output assignment
300 (0x12C)	Q2SP/FH (Flow)	Int	32 Bit	rw	- 250000... 250000	Q2SP: Set point / Q2FH: High limit point (Internal value in mL/min) [L/min]
301 (0x12D)	Q2RP/FL (Flow)	Int	32 Bit	rw	- 250000... 250000	Q2RP: Reset point / Q2FL: Low limit point (Internal value in mL/min) [L/min]
302 (0x12E)	Q2SP/FH (Temperature)	Int	32 Bit	rw	0...15000	Q2SP: Set point / Q2FH: High limit point (Internal value in 0.01 °C) [°C]
303 (0x12F)	Q2RP/FL (Temperature)	Int	32 Bit	rw	0...15000	Q2RP: Reset point / Q2FL: Low limit point (Internal value in 0.01 °C) [°C]
308 (0x134)	Q2Pol	UInt	8 Bit	rw	0 = normally open 1 = normally closed	Polarity
309 (0x135)	Q2Sim	UInt	8 Bit	rw	0 = Inactive 1 = Active 255 = SimOff	Simulate Q2
310 (0x136)	Q2PlsVal	UInt	32 Bit	rw	100...100 0000000	Volume after which a pulse is emitted (Internal value in µL) [mL]
311 (0x137)	Q2PlsWid	UInt	32 Bit	rw	50...2000 000	Pulse width in µs [µs]
316 (0x13C)	Q2FrqMax	UInt	16 Bit	rw	0...10000	Maximal output frequency [Hz]
317 (0x13D)	Q2FrqMin	UInt	16 Bit	rw	0...10000	Minimal output frequency [Hz]
318 (0x13E)	Q2Sim (Frequency)	UInt	8 Bit	rw	0 = 1Hz 1 = 10Hz 2 = 100Hz 3 = 1kHz 4 = 10kHz 255 = SimOff	Simulate frequency
380 (0x17C)	QaProc	UInt	8 Bit	rw	1 = Flow 3 = Temperature	Process parameter
381 (0x17D)	QaType	UInt	8 Bit	rw	0 = 4-20mA 255 = Aus	
383 (0x17F)	QaPol	UInt	8 Bit	rw	0 = Normal 1 = Inverted	Polarity
384 (0x180)	QaHigh (Flow)	Int	32 Bit	rw	- 250000... 250000	20mA point (Internal value in mL/min) [L/min]
385 (0x181)	QaLow (Flow)	Int	32 Bit	rw	- 250000... 250000	4mA point (Internal value in mL/min) [L/min]
386 (0x182)	QaHigh (Temperature)	Int	32 Bit	rw	0...15000	20mA point (Internal value in 0.01 °C) [°C]
387 (0x183)	QaLow (Temperature)	Int	32 Bit	rw	0...15000	4mA point (Internal value in 0.01 °C) [°C]
390 (0x186)	QaFail	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA	Fail state

¹ro = read only, wo = write only, rw = read/write / ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben

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

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SICK spezifisch						
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich Bemerkung [Einheit]
297 (0x129)	Q2Proc	UInt	8 Bit	rw	1 = Durchfluss 3 = Temperatur 4 = Statusausgang	Prozessparameter
298 (0x12A)	Q2Out	UInt	8 Bit	rw	0 = Hysterese 1 = Fenster	Schaltausgangsmodus
299 (0x12B)	Q2Stat	UInt	8 Bit	rw	0 = Fehler 1 = Leerrohr 2 = Sterilisation 3 = Negativ Fluss	Statusausgangszuordnung
300 (0x12C)	Q2SP/FH (Durchfluss)	Int	32 Bit	rw	- 250000... 250000	Q2SP: Schaltepunkt / Q2FH: Oberer Fensterrand (Wert intern in 0.01 °C) [L/min]
301 (0x12D)	Q2RP/FL (Durchfluss)	Int	32 Bit	rw	- 250000... 250000	Q2RP: Rückschaltpunkt / Q2FL: Unterer Fensterrand (Wert intern in mL/min) [L/min]
302 (0x12E)	Q2SP/FH (Temperatur)	Int	32 Bit	rw	0...15000	Q2SP: Schaltepunkt / Q2FH: Oberer Fensterrand (Wert intern in mL/min) [°C]
303 (0x12F)	Q2RP/FL (Temperatur)	Int	32 Bit	rw	0...15000	Q2RP: Rückschaltpunkt / Q2FL: Unterer Fensterrand (Wert intern in 0.01 °C) [°C]
308 (0x134)	Q2Pol	UInt	8 Bit	rw	0 = Schließer 1 = Öffner	Polarität
309 (0x135)	Q2Sim	UInt	8 Bit	rw	0 = Inaktiv 1 = Aktiv 255 = SimOff	Simuliere Q2
310 (0x136)	Q2PlsVal	UInt	32 Bit	rw	100...100 0000000	Durchflussmenge für welche ein Impuls gegeben wird (Wert intern in µL) [mL]
311 (0x137)	Q2PlsWid	UInt	32 Bit	rw	50...2000 000	Impulsbreite in µs [µs]
316 (0x13C)	Q2FrqMax	UInt	16 Bit	rw	0...10000	Maximale Ausgangsfrequenz [Hz]
317 (0x13D)	Q2FrqMin	UInt	16 Bit	rw	0...10000	Minimale Ausgangsfrequenz [Hz]
318 (0x13E)	Q2Sim (Frequenz)	UInt	8 Bit	rw	0 = 1Hz 1 = 10Hz 2 = 100Hz 3 = 1kHz 4 = 10kHz 255 = SimOff	Simuliere Frequenzgang
380 (0x17C)	QaProc	UInt	8 Bit	rw	1 = Durchfluss 3 = Temperatur	Prozessparameter
381 (0x17D)	QaType	UInt	8 Bit	rw	0 = 4-20mA 255 = Aus	
383 (0x17F)	QaPol	UInt	8 Bit	rw	0 = Normal 1 = Invertiert	Polarität
384 (0x180)	QaHigh (Durchfluss)	Int	32 Bit	rw	- 250000... 250000	20mA Punkt (Wert intern in mL/min) [L/min]
385 (0x181)	QaLow (Durchfluss)	Int	32 Bit	rw	- 250000... 250000	4mA Punkt (Wert intern in mL/min) [L/min]
386 (0x182)	QaHigh (Temperatur)	Int	32 Bit	rw	0...15000	20mA Punkt (Wert intern in 0.01 °C) [°C]
387 (0x183)	QaLow (Temperatur)	Int	32 Bit	rw	0...15000	4mA Punkt (Wert intern in 0.01 °C) [°C]
390 (0x186)	QaFail	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA	Fehlerzustand



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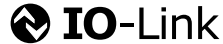
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Please note the validity of the additional operating instructions for automation functions

ENGLISH							
SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
391 (0x187)	QaSim	UInt	8 Bit	rw	35 = 3.5mA 38 = 3.8mA 40 = 4.0mA 100 = 10.0mA 120 = 12.0mA 180 = 18.0mA 200 = 20.0mA 205 = 20.5mA 215 = 21.5mA 255 = SimOff	Simulate current output	
400 (0x190)	QbProc	UInt	8 Bit	rw	1 = Flow 3 = Temperature	Process parameter	
401 (0x191)	QbType	UInt	8 Bit	rw	0 = 4-20mA 255 = Off		
403 (0x193)	QbPol	UInt	8 Bit	rw	0 = Normal 1 = Inverted	Polarity	
404 (0x194)	QbHigh (Flow)	Int	32 Bit	rw	- 250000... 250000	20mA point (Internal value in mL/min) [L/min]	
405 (0x195)	QbLow (Flow)	Int	32 Bit	rw	- 250000... 250000	4mA point (Internal value in mL/min) [L/min]	
406 (0x196)	QbHigh (Temperature)	Int	32 Bit	rw	0...15000	20mA point (Internal value in 0.01 °C) [°C]	
407 (0x197)	QbLow (Temperature)	Int	32 Bit	rw	0...15000	4mA point (Internal value in 0.01 °C) [°C]	
410 (0x19A)	QbFail	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA	Fail state	
411 (0x19B)	QbSim	UInt	8 Bit	rw	35 = 3.5mA 38 = 3.8mA 40 = 4.0mA 100 = 10.0mA 120 = 12.0mA 180 = 18.0mA 200 = 20.0mA 205 = 20.5mA 215 = 21.5mA 255 = SimOff	Simulate current output	
420 (0x1A4)	Unit flow	UInt	8 Bit	rw	0 = L/min 1 = L/h 2 = m ³ /h 3 = Gal/min 4 = Gal/h	Only for display	
421 (0x1A5)	Unit volume	UInt	8 Bit	rw	0 = L 1 = m ³ 2 = Gal	Only for display	
422 (0x1A6)	Unit temperature	UInt	8 Bit	rw	0 = Celsius 1 = Fahrenheit	Only for display	
424 (0x1A8)	Disp A	UInt	8 Bit	rw	0 = Flow 1 = Flow + Unit 2 = Volume 3 = Temperature 4 = Qa 5 = Qb 6 = Qx 7 = Speed of sound 8 = Flow velocity		

DEUTSCH							
SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
391 (0x187)	QaSim	UInt	8 Bit	rw	35 = 3.5mA 38 = 3.8mA 40 = 4.0mA 100 = 10.0mA 120 = 12.0mA 180 = 18.0mA 200 = 20.0mA 205 = 20.5mA 215 = 21.5mA 255 = SimOff	Simuliere Stromausgang	
400 (0x190)	QbProc	UInt	8 Bit	rw	1 = Durchfluss 3 = Temperatur	Prozessparameter	
401 (0x191)	QbType	UInt	8 Bit	rw	0 = 4-20mA 255 = Aus		
403 (0x193)	QbPol	UInt	8 Bit	rw	0 = Normal 1 = Invertiert	Polarität	
404 (0x194)	QbHigh (Durchfluss)	Int	32 Bit	rw	- 250000... 250000	20mA Punkt (Wert intern in mL/min) [L/min]	
405 (0x195)	QbLow (Durchfluss)	Int	32 Bit	rw	- 250000... 250000	4mA Punkt (Wert intern in mL/min) [L/min]	
406 (0x196)	QbHigh (Temperatur)	Int	32 Bit	rw	0...15000	20mA Punkt (Wert intern in 0.01 °C) [°C]	
407 (0x197)	QbLow (Temperatur)	Int	32 Bit	rw	0...15000	4mA Punkt (Wert intern in 0.01 °C) [°C]	
410 (0x19A)	QbFail	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA	Fehlerzustand	
411 (0x19B)	QbSim	UInt	8 Bit	rw	35 = 3.5mA 38 = 3.8mA 40 = 4.0mA 100 = 10.0mA 120 = 12.0mA 180 = 18.0mA 200 = 20.0mA 205 = 20.5mA 215 = 21.5mA 255 = SimOff	Simuliere Stromausgang	
420 (0x1A4)	Einheit Durchfluss	UInt	8 Bit	rw	0 = L/min 1 = L/h 2 = m ³ /h 3 = Gal/min 4 = Gal/h	Nur für Display	
421 (0x1A5)	Einheit Volumen	UInt	8 Bit	rw	0 = L 1 = m ³ 2 = Gal	Nur für Display	
422 (0x1A6)	Einheit Temperatur	UInt	8 Bit	rw	0 = Celsius 1 = Fahrenheit	Nur für Display	
424 (0x1A8)	Disp A	UInt	8 Bit	rw	0 = Durchfluss 1 = Durchfluss + Einheit 2 = Volumen 3 = Temperatur 4 = Qa 5 = Qb 6 = Qx 7 = Schallgeschwindigkeit 8 = Durchflussgeschwindigkeit		

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



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SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
425 (0x1A9)	Disp B	UInt	8 Bit	rw	0 = Flow 1 = Flow + Unit 2 = Volume 3 = Temperature 4 = Qa 5 = Qb 6 = Qx 7 = Speed of sound 8 = Flow velocity		
433 (0x1B1)	Lock	Bool	1 Bit	rw	true = Active false = In-active	Display lock - Password protected	
440 (0x1B8)	Measurement mode	UInt	8 Bit	rw	0 = Standard 1 = Dynamic 2 = Reserved2 3 = Reserved3 4 = Reserved4 5 = Reserved5 6 = Reserved6 7 = Reserved7		
441 (0x1B9)	Filter (Flow)	UInt	8 Bit	rw	0 = Off 5 = 500ms 10 = 1s 20 = 2s 50 = 5s 100 = 10s		
442 (0x1BA)	Low flow cutoff	UInt	8 Bit	rw	0 = Inactive 1 = Active	Low flow cutoff	
443 (0x1BB)	Cutoff SP	Int	32 Bit	rw	10...2500 0	Set point for low flow cutoff (Internal value in mL/min) [L/min]	
444 (0x1BC)	Cutoff RP	Int	32 Bit	rw	10...2500 0	Reset point for low flow cutoff (Internal value in mL/min) [L/min]	
445 (0x1BD)	Flow reversal	UInt	8 Bit	rw	0 = Inactive 1 = Active 2 = Absolute value	Flow reversal	
446 (0x1BE)	Volume (µL)	Int	32 Bit	ro		Volume counter in µL, add to volume counter in m³ for total volume [ml]	
447 (0x1BF)	Volume (m³)	Int	32 Bit	ro		Volume counter in m³, add to volume counter in µL for total volume [m³]	
448 (0x1C0)	Speed of sound	UInt	16 Bit	ro		Ultrasonic wave propagation speed in measurement medium [m/s]	
449 (0x1C1)	Flow velocity	Int	16 Bit	ro		Velocity of flowing medium [m/s]	
450 (0x1C2)	ReservedA	UInt	8 Bit	rw	0 = Reserved0 1 = Reserved1 2 = Reserved2 3 = Reserved3 4 = Reserved4 5 = Reserved5 6 = Reserved6 7 = Reserved7	Reserved	
451 (0x1C3)	ReservedB	UInt	8 Bit	rw	0 = Reserved0 1 = Reserved1 2 = Reserved2 3 = Reserved3 4 = Reserved4 5 = Reserved5 6 = Reserved6 7 = Reserved7	Reserved	

DEUTSCH							
SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
425 (0x1A9)	Disp B	UInt	8 Bit	rw	0 = Durchfluss 1 = Durchfluss + Einheit 2 = Volumen 3 = Temperatur 4 = Qa 5 = Qb 6 = Qx 7 = Schallgeschwindigkeit 8 = Durchflussgeschwindigkeit		
433 (0x1B1)	Lock	Bool	1 Bit	rw	true = Aktiv false = Inaktiv	Displaysperre - passwortgeschützt	
440 (0x1B8)	Messmodus	UInt	8 Bit	rw	0 = Standard 1 = Dynamic 2 = Reserviert2 3 = Reserviert3 4 = Reserviert4 5 = Reserviert5 6 = Reserviert6 7 = Reserviert7		
441 (0x1B9)	Filter (Durchfluss)	UInt	8 Bit	rw	0 = Aus 5 = 500ms 10 = 1s 20 = 2s 50 = 5s 100 = 10s		
442 (0x1BA)	Schleimengenunterdrückung	UInt	8 Bit	rw	0 = Inaktiv 1 = Aktiv	Schleimengenunterdrückung	
443 (0x1BB)	Schleimengenunterdrückung SP	Int	32 Bit	rw	10...2500 0	Schaltpunkt für Schleimengenunterdrückung (Wert intern in mL/min) [L/min]	
444 (0x1BC)	Schleimengenunterdrückung RP	Int	32 Bit	rw	10...2500 0	Rückschaltpunkt für Schleimengenunterdrückung (Wert intern in mL/min) [L/min]	
445 (0x1BD)	Durchflussrichtungsumkehr	UInt	8 Bit	rw	0 = Inaktiv 1 = Aktiv 2 = Absolutwert	Durchflussrichtungsumkehr	
446 (0x1BE)	Volumen (µL)	Int	32 Bit	ro		Volumenzähler in µL, mit Volumenzähler in m³ addieren für Gesamtvolumen [ml]	
447 (0x1BF)	Volumen (m³)	Int	32 Bit	ro		Volumenzähler in m³, mit Volumenzähler in µL addieren für Gesamtvolumen [m³]	
448 (0x1C0)	Schallgeschwindigkeit	UInt	16 Bit	ro		Ausbreitungsgeschwindigkeit der Ultraschallwelle im Medium [m/s]	
449 (0x1C1)	Durchflussgeschwindigkeit	Int	16 Bit	ro		Flussgeschwindigkeit des strömenden Mediums [m/s]	
450 (0x1C2)	ReserviertA	UInt	8 Bit	rw	0 = Reserviert0 1 = Reserviert1 2 = Reserviert2 3 = Reserviert3 4 = Reserviert4 5 = Reserviert5 6 = Reserviert6 7 = Reserviert7	Reserviert	
451 (0x1C3)	ReserviertB	UInt	8 Bit	rw	0 = Reserviert0 1 = Reserviert1 2 = Reserviert2 3 = Reserviert3 4 = Reserviert4 5 = Reserviert5 6 = Reserviert6 7 = Reserviert7	Reserviert	

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Sverige Phone +46 10 110 10 00
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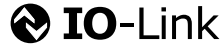
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Please note the validity of the additional operating instructions for automation functions

ENGLISH							
SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
452 (0x1C4)	ReservedC	UInt	8 Bit	rw	0 = Reserved0 1 = Reserved1 2 = Reserved2 3 = Reserved3 4 = Reserved4 5 = Reserved5 6 = Reserved6 7 = Reserved7	Reserved	
453 (0x1C5)	ReservedD	Int	16 Bit	rw	Reserved		
454 (0x1C6)	ReservedE	Int	16 Bit	rw	Reserved		
455 (0x1C7)	ReservedF	Int	16 Bit	rw	Reserved		
456 (0x1C8)	Sim Flow	UInt	8 Bit	rw	0 = 0% 20 = 20% 40 = 40% 60 = 60% 80 = 80% 100 = 100% 120 = -20% 140 = -40% 160 = -60% 180 = -80% 200 = -100% 255 = SimOff	Simulate Flow	
457 (0x1C9)	Sim Temperature	UInt	8 Bit	rw	0 = 0 °C 20 = 20 °C 40 = 40 °C 60 = 60 °C 80 = 80 °C 100 = 100 °C 255 = SimOff	Simulate Temperature	
459 (0x1CB)	Empty pipe behavior	UInt	8 Bit	rw	0 = Zero-Flow 1 = Failure	Empty pipe behavior	
460 (0x1CC)	Teach-Invoke	UInt	8 Bit	wo	0 = Idle 1 = ZeroFlow compensation 2 = ZeroFlow reset 3 = Reset flow factor 4 = Reserved4 5 = Reserved5 6 = Reserved6 7 = Reserved7		
461 (0x1CD)	Teach-State	UInt	8 Bit	ro	0 = Idle 1 = Running 2 = Successful 3 = Failed 4 = Unknown command		
462 (0x1CE)	Linear flow factor	Int	16 Bit	rw	1000	-10000...10000	Application specific compensation factor
465 (0x1D1)	Sterilization SP	Int	32 Bit	rw	12000	0...15000	Set point for sterilization detection (Internal value in 0.01 °C)
466 (0x1D2)	Sterilization RP	Int	32 Bit	rw	14000	0...15000	Reset point for sterilization detection (Internal value in 0.01 °C)
467 (0x1D3)	Sterilization time	UInt	16 Bit	rw	3600		Minimum sterilization time for sterilization detection [s]
480 (0x1E0)	SigQu (Master)	UInt	8 Bit	ro	0...100		Signal quality [%]
481 (0x1E1)	SigQu1	UInt	8 Bit	ro	0...100		Signal quality [%]
482 (0x1E2)	SigQu2	UInt	8 Bit	ro	0...100		Signal quality [%]

¹ ro = read only, wo = write only, rw = read/write / ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben

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

DEUTSCH							
SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
452 (0x1C4)	ReserviertC	UInt	8 Bit	rw	0 = Reserviert0 1 = Reserviert1 2 = Reserviert2 3 = Reserviert3 4 = Reserviert4 5 = Reserviert5 6 = Reserviert6 7 = Reserviert7	Reserviert	
453 (0x1C5)	ReserviertD	Int	16 Bit	rw	Reserviert		
454 (0x1C6)	ReserviertE	Int	16 Bit	rw	Reserviert		
455 (0x1C7)	ReserviertF	Int	16 Bit	rw	Reserviert		
456 (0x1C8)	Simuliere Durchfluss	UInt	8 Bit	rw	0 = 0% 20 = 20% 40 = 40% 60 = 60% 80 = 80% 100 = 100% 120 = -20% 140 = -40% 160 = -60% 180 = -80% 200 = -100% 255 = SimOff	Simuliere Durchfluss	
457 (0x1C9)	Simuliere Temperatur	UInt	8 Bit	rw	0 = 0 °C 20 = 20 °C 40 = 40 °C 60 = 60 °C 80 = 80 °C 100 = 100 °C 255 = SimOff	Simuliere Temperatur	
459 (0x1CB)	Verhalten bei Leerrohr	UInt	8 Bit	rw	0 = Nullfluss 1 = Fehler	Verhalten bei Leerrohr	
460 (0x1CC)	Teach ausführen	UInt	8 Bit	wo	0 = Idle 1 = Nullabgleich 2 = Nullfluss zurücksetzen 3 = Durchflussfaktor zurücksetzen 4 = Reserviert4 5 = Reserviert5 6 = Reserviert6 7 = Reserviert7		
461 (0x1CD)	Teach Status	UInt	8 Bit	ro	0 = Idle 1 = Wird ausgeführt 2 = Erfolgreich 3 = Fehlgelungen 4 = Unbekannter Befehl		
462 (0x1CE)	Linearer Durchflussfaktor	Int	16 Bit	rw	1000	-10000...10000	Applikationsspezifischer Kompensationskoeffizient
465 (0x1D1)	Sterilisation SP	Int	32 Bit	rw	12000	0...15000	Schaltpunkt für Sterilisation (Wert intern in 0.01 °C)
466 (0x1D2)	Sterilisation RP	Int	32 Bit	rw	14000	0...15000	Rückschaltpunkt für Sterilisation (Wert intern in 0.01 °C)
467 (0x1D3)	Sterilisationszeit	UInt	16 Bit	rw	3600		Minimale Sterilisationszeit für Sterilisationserkennung [s]
480 (0x1E0)	SigQu (Master)	UInt	8 Bit	ro	0...100		Signalqualität [%]
481 (0x1E1)	SigQu1	UInt	8 Bit	ro	0...100		Signalqualität [%]
482 (0x1E2)	SigQu2	UInt	8 Bit	ro	0...100		Signalqualität [%]



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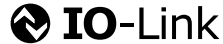
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ENGLISH									
SICK device specific									
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Signal quality [%]	Remark [Unit]	
483 (0x1E3)	SigQu3	UInt	8 Bit	ro	0...100		Signal quality [%]		
484 (0x1E4)	SigQu4	UInt	8 Bit	ro	0...100		Signal quality [%]		
485 (0x1E5)	Power-up counter	UInt	32 Bit	ro	Power-up counter				
486 (0x1E6)	Supply voltage	UInt	16 Bit	ro	Sensor supply voltage (Internal value in mV) [V]				
487 (0x1E7)	Sensor temperature	Int	16 Bit	ro	Internal electronics temperature (Internal value in 0.1 °C) [°C]				
488 (0x1E8)	Max value (Flow)	Int	32 Bit	ro	Maximal flow value (Internal value in mL/min) [L/min]				
489 (0x1E9)	Min value (Flow)	Int	32 Bit	ro	Minimal flow value (Internal value in mL/min) [L/min]				
490 (0x1EA)	Max value (Temperature)	Int	32 Bit	ro	Maximal temperature value (Internal value in 0.01 °C) [°C]				
491 (0x1EB)	Min value (Temperature)	Int	32 Bit	ro	Minimal temperature value (Internal value in 0.01 °C) [°C]				
494 (0x1EE)	Reset Min/Max	UInt	8 Bit	wo	0 = Reset Min/Max values (all) 1 = Reset Min/Max values (Flow) 2 = Reset Min/Max values (Temperature) 3 = Reset Volume counter	Reset minimal and maximal values			
500 (0x1F4)	Error delay	UInt	8 Bit	rw	0 = Off 1 = 1s 2 = 2s 5 = 5s 10 = 10s 30 = 30s				
502 (0x1F6)	Active notifications	Record	4 Byte	ro					
1 (0x01)	System State	Bit (0)	2 Bit	ro	0 = Failure 1 = Warning 2 = OK				
2 (0x02)	Reserved	Bit (2)	1 Bit	ro	true = Active false = Inactive				
3 (0x03)	Shortcut Q2	Bit (3)	1 Bit	ro	true = Active false = Inactive				
4 (0x04)	Reserved	Bit (4)	1 Bit	ro	true = Active false = Inactive				
5 (0x05)	Reserved	Bit (5)	1 Bit	ro	true = Active false = Inactive				
6 (0x06)	Overload Q1/Q2	Bit (6)	1 Bit	ro	true = Active false = Inactive				
7 (0x07)	Reserved	Bit (7)	1 Bit	ro	true = Active false = Inactive				
8 (0x08)	Shortcut Qa	Bit (8)	1 Bit	ro	true = Active false = Inactive				
9 (0x09)	Overload Qa	Bit (9)	1 Bit	ro	true = Active false = Inactive				
10 (0x0A)	Shortcut Qb	Bit (10)	1 Bit	ro	true = Active false = Inactive				
11 (0x0B)	Overload Qb	Bit (11)	1 Bit	ro	true = Active false = Inactive				
12 (0x0C)	Frequency too high Q2	Bit (12)	1 Bit	ro	true = Active false = Inactive				
13 (0x0D)	Frequency too low Q2	Bit (13)	1 Bit	ro	true = Active false = Inactive				
14 (0x0E)	Reserved	Bit (14)	1 Bit	ro	true = Active false = Inactive				
15 (0x0F)	Reserved	Bit (15)	1 Bit	ro	true = Active false = Inactive				
16 (0x10)	Memory error	Bit (16)	1 Bit	ro	true = Active false = Inactive				
17 (0x11)	Empty pipe	Bit (17)	1 Bit	ro	true = Active false = Inactive				
18 (0x12)	Low flow cutoff	Bit (18)	1 Bit	ro	true = Active false = Inactive				
19 (0x13)	Sterilization	Bit (19)	1 Bit	ro	true = Active false = Inactive				
20 (0x14)	Reserved	Bit (20)	1 Bit	ro	true = Active false = Inactive				

¹ ro = read only, wo = write only, rw = read/write / ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben

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

DEUTSCH									
SICK spezifisch									
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]		
483 (0x1E3)	SigQu3	UInt	8 Bit	ro	0...100		Signalqualität [%]		
484 (0x1E4)	SigQu4	UInt	8 Bit	ro	0...100		Signalqualität [%]		
485 (0x1E5)	Einschaltzähler	UInt	32 Bit	ro	Einschaltzähler				
486 (0x1E6)	Versorgungsspannung	UInt	16 Bit	ro	Versorgungsspannung des Sensors (Wert intern in mV) [V]				
487 (0x1E7)	Sensortemperatur	Int	16 Bit	ro	Elektroniktemperatur (Wert intern in 0.1 °C) [°C]				
488 (0x1E8)	Max Wert (Durchfluss)	Int	32 Bit	ro	Maximaler Durchfluss (Wert intern in mL/min) [L/min]				
489 (0x1E9)	Min Wert (Durchfluss)	Int	32 Bit	ro	Minimaler Durchfluss (Wert intern in mL/min) [L/min]				
490 (0x1EA)	Max Wert (Temperatur)	Int	32 Bit	ro	Maximale Temperatur (Wert intern in 0.01 °C) [°C]				
491 (0x1EB)	Min Wert (Temperatur)	Int	32 Bit	ro	Minimale Temperatur (Wert intern in 0.01 °C) [°C]				
494 (0x1EE)	Zurücksetzen Min/Max	UInt	8 Bit	wo	0 = Zurücksetzen Min/Max Werte (alle) 1 = Zurücksetzen Min/Max Werte (Durchfluss) 2 = Zurücksetzen Min/Max Werte (Temperatur) 3 = Volumenzähler zurücksetzen	Minimale und maximale Werte zurücksetzen			
500 (0x1F4)	Fehlervverzögerung	UInt	8 Bit	rw	0 = Aus 1 = 1s 2 = 2s 5 = 5s 10 = 10s 30 = 30s				
502 (0x1F6)	Aktive Benachrichtigungen	Record	4 Byte	ro					
1 (0x01)	Systemstatus	Bit (0)	2 Bit	ro	0 = Fehler 1 = Warnung 2 = OK				
2 (0x02)	Reserviert	Bit (2)	1 Bit	ro	true = Aktiv false = Inaktiv				
3 (0x03)	Kurzschluss Q2	Bit (3)	1 Bit	ro	true = Aktiv false = Inaktiv				
4 (0x04)	Reserviert	Bit (4)	1 Bit	ro	true = Aktiv false = Inaktiv				
5 (0x05)	Reserviert	Bit (5)	1 Bit	ro	true = Aktiv false = Inaktiv				
6 (0x06)	Überlast Q1/Q2	Bit (6)	1 Bit	ro	true = Aktiv false = Inaktiv				
7 (0x07)	Reserviert	Bit (7)	1 Bit	ro	true = Aktiv false = Inaktiv				
8 (0x08)	Kurzschluss Qa	Bit (8)	1 Bit	ro	true = Aktiv false = Inaktiv				
9 (0x09)	Überlast Qa	Bit (9)	1 Bit	ro	true = Aktiv false = Inaktiv				
10 (0x0A)	Kurzschluss Qb	Bit (10)	1 Bit	ro	true = Aktiv false = Inaktiv				
11 (0x0B)	Überlast Qb	Bit (11)	1 Bit	ro	true = Aktiv false = Inaktiv				
12 (0x0C)	Frequenz zu hoch Q2	Bit (12)	1 Bit	ro	true = Aktiv false = Inaktiv				
13 (0x0D)	Frequenz zu niedrig Q2	Bit (13)	1 Bit	ro	true = Aktiv false = Inaktiv				
14 (0x0E)	Reserviert	Bit (14)	1 Bit	ro	true = Aktiv false = Inaktiv				
15 (0x0F)	Reserviert	Bit (15)	1 Bit	ro	true = Aktiv false = Inaktiv				
16 (0x10)	Speicherfehler	Bit (16)	1 Bit	ro	true = Aktiv false = Inaktiv				



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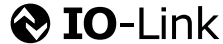
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SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
21 (0x15)	Reserved	Bit (21)	1 Bit	ro	true = Active false = Inactive		
22 (0x16)	Reserved	Bit (22)	1 Bit	ro	true = Active false = Inactive		
23 (0x17)	Reserved	Bit (23)	1 Bit	ro	true = Active false = Inactive		
24 (0x18)	Process temperature too high	Bit (24)	1 Bit	ro	true = Active false = Inactive		
25 (0x19)	Process temperature too low	Bit (25)	1 Bit	ro	true = Active false = Inactive		
26 (0x1A)	Housing temperature too high	Bit (26)	1 Bit	ro	true = Active false = Inactive		
27 (0x1B)	Housing temperature too low	Bit (27)	1 Bit	ro	true = Active false = Inactive		
28 (0x1C)	Reserved	Bit (28)	1 Bit	ro	true = Active false = Inactive		
29 (0x1D)	Simulation active	Bit (29)	1 Bit	ro	true = Active false = Inactive		
30 (0x1E)	Warning active	Bit (30)	1 Bit	ro	true = Active false = Inactive		
31 (0x1F)	Failure active	Bit (31)	1 Bit	ro	true = Active false = Inactive		
510 (0x1FE)	Special action invoke	Ulnt	16 Bit	wo			
511 (0x1FF)	Special action state	Ulnt	8 Bit	rw	0 = Idle 1 = Running 2 = Successful 3 = Failed 4 = Invalid Action		
512 (0x200)	Special action scratchpad	Array	128 Byte	rw		Unsigned Integer8 [128]	

Standard command					
Index dec (hex)	Standard Command	Access ¹	Value	Name	Remark [Unit]
2 (0x02)	Standard Command	wo	130	Restore Factory Settings	

Events				
Code dec (hex)	Name	Type	Remark [Unit]	
6144 (0x1800)	DummyEvent	Notification	DummyEvent	

Error			
Code dec (hex)	Additional Code	Name	Remark [Unit]
128 (0x80)	17 (0x11)	Index not available	Access occurs to a not existing index
128 (0x80)	18 (0x12)	Subindex not available	Access occurs to a not existing subindex
128 (0x80)	32 (0x20)	Service temporarily not available	Parameter is not accessible due to the current state of the device application
128 (0x80)	34 (0x22)	Service temporarily not available - device control	Parameter is not accessible due to a remote triggered state of the device application
128 (0x80)	35 (0x23)	Access denied	Write access on a read-only parameter
128 (0x80)	48 (0x30)	Parameter value out of range	Written parameter value is outside its permitted value range
128 (0x80)	51 (0x33)	Parameter length overrun	Written parameter length is above its pre-defined length
128 (0x80)	52 (0x34)	Parameter length underrun	Written parameter length is below its pre-defined length
128 (0x80)	53 (0x35)	Function not available	Written command is not supported by the device application
128 (0x80)	54 (0x36)	Function temporarily unavailable	Written command is not available due to the current state of the device application
128 (0x80)	65 (0x41)	Inconsistent parameter set	Parameter inconsistencies were found at the end of block parameter transfer, device plausibility check failed

DEUTSCH							
SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
17 (0x11)	Leerrohr	Bit (17)	1 Bit	ro	true = Aktiv false = Inaktiv		
18 (0x12)	Schleichenmengenerdrückung	Bit (18)	1 Bit	ro	true = Aktiv false = Inaktiv		
19 (0x13)	Sterilisation	Bit (19)	1 Bit	ro	true = Aktiv false = Inaktiv		
20 (0x14)	Reserviert	Bit (20)	1 Bit	ro	true = Aktiv false = Inaktiv		
21 (0x15)	Reserviert	Bit (21)	1 Bit	ro	true = Aktiv false = Inaktiv		
22 (0x16)	Reserviert	Bit (22)	1 Bit	ro	true = Aktiv false = Inaktiv		
23 (0x17)	Reserviert	Bit (23)	1 Bit	ro	true = Aktiv false = Inaktiv		
24 (0x18)	Prozesstemperatur zu hoch	Bit (24)	1 Bit	ro	true = Aktiv false = Inaktiv		
25 (0x19)	Prozesstemperatur zu niedrig	Bit (25)	1 Bit	ro	true = Aktiv false = Inaktiv		
26 (0x1A)	Gehäusetemperatur zu hoch	Bit (26)	1 Bit	ro	true = Aktiv false = Inaktiv		
27 (0x1B)	Gehäusetemperatur zu niedrig	Bit (27)	1 Bit	ro	true = Aktiv false = Inaktiv		
28 (0x1C)	Reserviert	Bit (28)	1 Bit	ro	true = Aktiv false = Inaktiv		
29 (0x1D)	Simulation aktiv	Bit (29)	1 Bit	ro	true = Aktiv false = Inaktiv		
30 (0x1E)	Warnung aktiv	Bit (30)	1 Bit	ro	true = Aktiv false = Inaktiv		
31 (0x1F)	Fehler aktiv	Bit (31)	1 Bit	ro	true = Aktiv false = Inaktiv		
510 (0x1FE)	Sonderfunktion ausführen	Ulnt	16 Bit	wo			
511 (0x1FF)	Sonderfunktion Zustand	Ulnt	8 Bit	rw	0 = Idle 1 = Wird ausgeführt 2 = Erfolgreich 3 = Fehlgeschlagen 4 = Ungültige Action		
512 (0x200)	Sonderfunktion Speicher	Array	128 Byte	rw		Unsigned Integer8 [128]	

Standardkommando					
Index dez (hex)	Standardkommando	Zugriff ¹	Wert	Name	Bemerkung [Einheit]
2 (0x02)	Standardkommando	wo	130	Auslieferungszustand wiederherstellen	

Events				
Code dez (hex)	Name	Typ	Bemerkung [Einheit]	
6144 (0x1800)	DummyEvent	Notification	DummyEvent	

Fehlercodes			
Code dez (hex)	Additional Code	Name	Bemerkung [Einheit]
128 (0x80)	17 (0x11)	Index nicht vorhanden	Zugriff auf einen nicht existierenden Index
128 (0x80)	18 (0x12)	Subindex nicht vorhanden	Zugriff auf einen nicht existierenden Subindex
128 (0x80)	32 (0x20)	Service zur Zeit nicht verfügbar	Auf den Parameter kann gerade nicht zugegriffen werden. Das Gerät erlaubt dies im aktuellen Zustand nicht
128 (0x80)	34 (0x22)	Service zur Zeit nicht verfügbar - Geräte Betriebsmodus	Auf den Parameter kann gerade nicht zugegriffen werden, da sich das Gerät zur Zeit in einem Remote Betriebsmodus befindet
128 (0x80)	35 (0x23)	Zugriff verweigert	Schreibzugriff auf einen schreibgeschützten Parameter
128 (0x80)	48 (0x30)	Parameterwert außerhalb des gültigen Bereichs	Geschriebener Parameterwert liegt außerhalb des zulässigen Wertebereichs
128 (0x80)	51 (0x33)	Parameterlänge zu groß	Geschriebene Parameterlänge ist größer als erlaubt
128 (0x80)	52 (0x34)	Parameterlänge zu klein	Geschriebene Parameterlänge ist kleiner als erlaubt
128 (0x80)	53 (0x35)	Funktion nicht verfügbar	Geschriebenes Kommando wird vom Gerät nicht unterstützt
128 (0x80)	54 (0x36)	Funktion zur Zeit nicht verfügbar	Geschriebenes Kommando wird vom Gerät im aktuellen Zustand nicht unterstützt
128 (0x80)	65 (0x41)	Inkonsistenter Parametersatz	Am Ende des Blockparametertransfers wurden Inkonsistenzen erkannt. Der Geräteplausibilitätscheck schlug fehl

¹ ro = read only, wo = write only, rw = read/write / ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben

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