

SICK

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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	5.0 ms
Baudrate ²	COM3
Process Data Length (IN)	10 Byte
IODD version	V1.00
Valid for IO-Link version	1.1.0

2. Process data

Volume counter in 0.1L
Temperature in 0.1°C
Flowrate Unit depending on Index 440 Measurement Mode
Velocity absolute in 0.01m/s
Volume flow in 0.1L/min
Velocity/Teach relative in 0.1%

Record: 10 Byte - Process Data In

Bitoffset																
Byte 0	Volume [0.1L]	79	78	77	76	75	74	73	72							
Type/Subindex	Unsigned Integer 32															
Bitoffset																
Byte 1	Volume [0.1L]	71	70	69	68	67	66	65	64							
Type/Subindex	Unsigned Integer 32															
Bitoffset																
Byte 2	Volume [0.1L]	63	62	61	60	59	58	57	56							
Type/Subindex	Unsigned Integer 32															
Bitoffset																
Byte 3	Volume [0.1L]	55	54	53	52	51	50	49	48	48						
Type/Subindex	Unsigned Integer 32															
Bitoffset																
Byte 4	Temperature [0.1°C]	47	46	45	44	43	42	41	40							
Type/Subindex	Integer 16															
Bitoffset																
Byte 5	Temperature [0.1°C]	39	38	37	36	35	34	33	32	32						
Type/Subindex	Integer 16															
Bitoffset																
Byte 6	Flowrate (Velocity [0.01m/s], Volume [0.1L/min], Relative [0.1%])	30	29	28	27	26	25	24								
Type/Subindex	Unsigned Integer 24															
Bitoffset																
Byte 7	Flowrate (Velocity [0.01m/s], Volume [0.1L/min], Relative [0.1%])	22	21	20	19	18	17	16								
Type/Subindex	Unsigned Integer 24															
Bitoffset																
Byte 8	Flowrate (Velocity [0.01m/s], Volume [0.1L/min], Relative [0.1%])	14	13	12	11	10	9	8	8							
Type/Subindex	Unsigned Integer 24															
Bitoffset																
Byte 9	Warning Active	7	Reserved	6	Device State	5	Reserved	4	Reserved	3	Reserved	2	Q2	1	Q1	0
Type/Subindex	Boolean	7	Boolean	6	Unsigned Integer 2	5	Boolean	4	Boolean	3	Boolean	2	Boolean	2	Boolean	1

3. Service data

The following ISDUs will not be saved via Data-Storage: Device Specific Tag, Simulation 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			
2 (0x02)	Data Storage Lock	Bit (1)	1 Bit	rw			
4 (0x04)	Local User Interface Lock	Bit (3)	1 Bit	rw			

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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IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
16 (0x10)	Vendor Name	String	64 Byte	ro	SICK AG		
18 (0x12)	Product Name	String	64 Byte	ro			
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	10 Byte	ro			

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
58 (0x3A)	Teach Select	UInt	8 Bit	rw	0	0 = Teach 1 1 = Teach 2 2 = Teach 3	
59 (0x3B)	Teach Status	UInt	8 Bit	ro		0 = Idle 3 = success 4 = Wait for Teach min 5 = Busy 12 = Error Teach max 13 = Error Teach min 14 = Error Sensor not in Teach Mode	
64 (0x40)	Device Specific Tag	String	32 Byte	rw	***		
190 (0xBE)	Operation Timer	UInt	32 Bit	ro		Operation time in seconds [s]	
212 (0xD4)	Delay Mode Q1	UInt	8 Bit	rw	4	0 = Ton Delay 1 = Toff Delay 2 = Ton +Toff Delay 4 = deactivated	
213 (0xD5)	Delay Mode Q2	UInt	8 Bit	rw	4	0 = Ton Delay 1 = Toff Delay 2 = Ton +Toff Delay 4 = deactivated	
214 (0xD6)	Delay Time Q1	UInt	16 Bit	rw	0	0...60000	[ms]
215 (0xD7)	Delay Time Q2	UInt	16 Bit	rw	0	0...60000	[ms]
258 (0x102)	Specification Limit Flow Velocity	UInt	16 Bit	ro		depending on selected medium (see index 442) (Parameter in 0.01m/s)	[m/s]
259 (0x103)	Specification Limit Flow Volume	UInt	32 Bit	ro		depending on selected medium (see index 442) and pipe diameter (see index 441) (Parameter in 0.1L/min)	[L/min]
260 (0x104)	Q1Mode	UInt	8 Bit	rw	0	0 = Flow Hysteresis norm open 1 = Flow Hysteresis norm closed 2 = Flow Window norm open 3 = Flow Window norm closed 6 = Temp Hysteresis norm open 7 = Temp Hysteresis norm closed 8 = Temp Window norm open 9 = Temp Window norm closed 16 = Empty Detection norm open 17 = Empty Detection norm closed 18 = Application Specific	
267 (0x10B)	Q1 Switchpoints Flow Relative	Record	4 Byte	rw		for Measurement Mode = Velocity relative or Teach relative (see index 440)	
1 (0x01)	Switchpoint 1	Bit (16)	16 Bit	rw	0...1000	(Parameter in 0.1%) [%]	
2 (0x02)	Switchpoint 2	Bit (0)	16 Bit	rw	0...1000	(Parameter in 0.1%) [%]	
268 (0x10C)	Q1 Switchpoints Flow Velocity	Record	4 Byte	rw		for Measurement Mode = Velocity absolute (see index 440)	
1 (0x01)	Switchpoint 1	Bit (16)	16 Bit	rw	0...600	(Parameter in 0.01m/s) [m/s]	
2 (0x02)	Switchpoint 2	Bit (0)	16 Bit	rw	0...600	(Parameter in 0.01m/s) [m/s]	
269 (0x10D)	Q1 Switchpoints Flow Volume	Record	8 Byte	rw		for Measurement Mode = Volume flow and counter (see index 440)	
1 (0x01)	Switchpoint 1	Bit (32)	32 Bit	rw	0...2840000	(Parameter in 0.1L/min) [L/min]	
2 (0x02)	Switchpoint 2	Bit (0)	32 Bit	rw	0...2840000	(Parameter in 0.1L/min) [L/min]	

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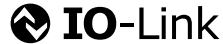
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Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
270 (0x10E)	Q1 Switchpoints Temperature		4 Byte	rw			
	1 (0x01) Switchpoint 1	Bit (16)	16 Bit	rw	-400...1500	(Parameter in 0.1 °C) [°C]	
	2 (0x02) Switchpoint 2	Bit (0)	16 Bit	rw	-400...1500	(Parameter in 0.1 °C) [°C]	
	290 (0x122) Q2Mode	UInt	8 Bit	rw	0	0 = Flow Hysteresis norm open 1 = Flow Hysteresis norm closed 2 = Flow Window norm open 3 = Flow Window norm closed 6 = Temp Hysteresis norm open 7 = Temp Hysteresis norm closed 8 = Temp Window norm open 9 = Temp Window norm closed 16 = Input OR with Q1 17 = Input AND with Q1 18 = Application Specific 20 = Off Pin Q2 inactive 21 = Output Current Flow 4-20mA 22 = Output Current Temp 4-20mA 23 = Output Pulse Volume	
297 (0x129)	Q2 Switchpoints Flow Relative	Record	4 Byte	rw		for Measurement Mode = Velocity relative or Teach relative (see index 440)	
	1 (0x01) Switchpoint 1	Bit (16)	16 Bit	rw	0...1000	(Parameter in 0.1%) [%]	
	2 (0x02) Switchpoint 2	Bit (0)	16 Bit	rw	0...1000	(Parameter in 0.1%) [%]	
	298 (0x12A) Q2 Switchpoints Flow Velocity	Record	4 Byte	rw		for Measurement Mode = Velocity absolute (see index 440)	
	1 (0x01) Switchpoint 1	Bit (16)	16 Bit	rw	0...600	(Parameter in 0.01m/s) [m/s]	
	2 (0x02) Switchpoint 2	Bit (0)	16 Bit	rw	0...600	(Parameter in 0.01m/s) [m/s]	
299 (0x12B)	Q2 Switchpoints Flow Volume	Record	8 Byte	rw		for Measurement Mode = Volume flow and counter (see index 440)	
	1 (0x01) Switchpoint 1	Bit (32)	32 Bit	rw	0...2840000	(Parameter in 0.1L/min) [L/min]	
	2 (0x02) Switchpoint 2	Bit (0)	32 Bit	rw	0...2840000	(Parameter in 0.1L/min) [L/min]	
	300 (0x12C) Q2 Switchpoints Temperature	Record	4 Byte	rw			
	1 (0x01) Switchpoint 1	Bit (16)	16 Bit	rw	-400...1500	(Parameter in 0.1 °C) [°C]	
	2 (0x02) Switchpoint 2	Bit (0)	16 Bit	rw	-400...1500	(Parameter in 0.1 °C) [°C]	
310 (0x136)	Q2 Pulse Valency	UInt	16 Bit	rw	1...10000	(Parameter in 0.1L) [L]	
311 (0x137)	Q2 Pulse Width	UInt	16 Bit	rw	1...2000	[ms]	
384 (0x180)	Q2a Analog Limits Flow Relative	Record	4 Byte	rw		for Measurement Mode = Velocity relative or Teach relative (see index 440)	
	1 (0x01) Low	Bit (16)	16 Bit	rw	0...1000	(Parameter in 0.1%) [%]	
	2 (0x02) High	Bit (0)	16 Bit	rw	0...1000	(Parameter in 0.1%) [%]	
	385 (0x181) Q2a Analog Limits Flow Velocity	Record	4 Byte	rw		for Measurement Mode = Velocity absolute (see index 440)	
	1 (0x01) Low	Bit (16)	16 Bit	rw	0...600	(Parameter in 0.01m/s) [m/s]	
	2 (0x02) High	Bit (0)	16 Bit	rw	0...600	(Parameter in 0.01m/s) [m/s]	
386 (0x182)	Q2a Analog Limits Flow Volume	Record	8 Byte	rw		for Measurement Mode = Volume flow and counter (see index 440)	
	1 (0x01) Low	Bit (32)	32 Bit	rw	0...2840000	(Parameter in 0.1L/min) [L/min]	
	2 (0x02) High	Bit (0)	32 Bit	rw	0...2840000	(Parameter in 0.1L/min) [L/min]	
	387 (0x183) Q2a Analog Limits Temperature	Record	4 Byte	rw			
	1 (0x01) Low	Bit (16)	16 Bit	rw	-400...1500	(Parameter in 0.1 °C) [°C]	
	2 (0x02) High	Bit (0)	16 Bit	rw	-400...1500	(Parameter in 0.1 °C) [°C]	
390 (0x186)	Q2a Analog Error Current	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA		
419 (0x1A3)	Unit Volume	UInt	8 Bit	rw	0	0 = L (Liter) 1 = m ³ (Cubic meter) 2 = gal (US Gallon) 3 = ft ³ (Cubic foot)	Unit settings only supported from display
420 (0x1A4)	Unit Volume Flow	UInt	8 Bit	rw	0	0 = L/min (Liter per minute) 1 = L/h (Liter per hour) 2 = m ³ /h (Cubic meter per hour) 3 = gpm (US Gallon per minute) 4 = gph (US Gallon per hour) 5 = ft ³ /min (Cubic foot per minute)	Unit settings only supported from display
421 (0x1A5)	Unit Velocity	UInt	8 Bit	rw	0	0 = m/s (Meter per second) 1 = ft/s (Foot per second)	Unit settings only supported from display
422 (0x1A6)	Unit Pipe Diameter	UInt	8 Bit	rw	0	0 = mm 1 = inch	Unit settings only supported from display
423 (0x1A7)	Unit Temperature	UInt	8 Bit	rw	0	0 = °C (Celsius) 1 = °F (Fahrenheit)	Unit settings only supported from display

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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]
424 (0x1A8)	Display Mode	UInt	8 Bit	rw	0	0 = Flow and Temperature 1 = Flow and Volume 2 = Volume and Temperature	
425 (0x1A9)	Display Language	UInt	8 Bit	rw	0 = English 1 = Chinese		
426 (0x1AA)	Display Rotation	UInt	8 Bit	rw	0 = Standard 1 = 180° turned		
433 (0x1B1)	Display Lock	Bool	1 Bit	rw	0	true = active HMI locked !Password! false = inactive HMI unlocked	Display lock - Password protected
440 (0x1B8)	Measurement Mode	UInt	8 Bit	rw	0	0 = Velocity relative (%) 1 = Velocity absolute 2 = Volume flow and counter 3 = Teach relative (%)	
441 (0x1B9)	Pipe Diameter	UInt	16 Bit	rw	15...1000	[mm]	
442 (0x1BA)	Medium	UInt	8 Bit	rw	0 = Water 1 = Oil A 2 = Oil B 3 = Medium 4 4 = Medium 5 5 = Medium 6		
443 (0x1BB)	Simulation	UInt	8 Bit	rw	0	0 = Off Simulation inactive 1 = 0% Flow Simulation 2 = 25% Flow Simulation 3 = 50% Flow Simulation 4 = 75% Flow Simulation 5 = 100% Flow Simulation 6 = -25 °C Temp Simulation 7 = 0 °C Temp Simulation 8 = 25 °C Temp Simulation 9 = 50 °C Temp Simulation 10 = 75 °C Temp Simulation 11 = 100 °C Temp Simulation 12 = 125 °C Temp Simulation 13 = 150 °C Temp Simulation 14 = Failure simulate Failure	
446 (0x1BE)	Filter (process data)	UInt	8 Bit	rw	0 = Off 1 = 100ms 2 = 200ms 3 = 300ms 5 = 500ms 10 = 1sec 20 = 2sec 30 = 3sec 50 = 5sec 100 = 10sec		
448 (0x1C0)	Linear Flow Factor	UInt	16 Bit	rw	100	50...150	Application specific compensation factor [%]
449 (0x1C1)	Empty Detection Factor	UInt	8 Bit	rw	100	70...140	[%]
450 (0x1C2)	Low Flow Cutoff Flow Relative (switch-on point)	UInt	16 Bit	rw	0	0 = inactive 1...100 = active	for Measurement Mode = Velocity relative or Teach relative (see index 440) (Parameter in 0.1%) [%]
451 (0x1C3)	Low Flow Cutoff Flow Velocity (switch-on point)	UInt	16 Bit	rw	0	0 = inactive 1...60 = active	for Measurement Mode = Velocity absolute (see index 440) (Parameter in 0.01m/s) [m/s]
452 (0x1C4)	Low Flow Cutoff Flow Volume (switch-on point)	UInt	32 Bit	rw	0	0 = inactive 1...284000 = active	for Measurement Mode = Volume flow and counter (see index 440) (Parameter in 0.1L/min) [L/min]
453 (0x1C5)	Low Flow Cutoff Hysteresis (switch-off point)	UInt	16 Bit	rw	50	5...300	The switch-off point is indicated as a positive hysteresis value as a percentage of the switch-on point of the selected cutoff valve. [%]
480 (0x1E0)	Signal Quality	UInt	8 Bit	ro	0...100	[%]	
485 (0x1E5)	PowerUp Counter	UInt	32 Bit	ro	Parameter only available via IO-Link		
486 (0x1E6)	Supply Voltage	UInt	16 Bit	ro	[mV]		
487 (0x1E7)	Sensor Temp	Int	16 Bit	ro	(Parameter in 0.1 °C) [°C]		
488 (0x1E8)	Max Medium Temperature	Int	16 Bit	ro	(Parameter in 0.1 °C) [°C]	Parameter only available via IO-Link	
489 (0x1E9)	Min Medium Temperature	Int	16 Bit	ro	(Parameter in 0.1 °C) [°C]	Parameter only available via IO-Link	
494 (0x1EE)	Reset Min/Max	UInt	8 Bit	wo	0 = all 1 = MediumTemperature 2 = reserved	Parameter only available via IO-Link	

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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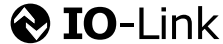
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SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
494 (0x1EE)	Reset Min/Max	UInt	8 Bit	wo	0 = all 1 = MediumTemperature 2 = reserved	Parameter only available via IO-Link	
500 (0x1F4)	Error Delay	UInt	8 Bit	rw	0 = Off 1 = 1 sec 2 = 2 sec 5 = 5 sec 10 = 10 sec 30 = 30 sec	Parameter only available via IO-Link	
501 (0x1F5)	Error Level	UInt	8 Bit	rw	0	0 = Failure 1 = Failure + Warning	Parameter only available via IO-Link
502 (0x1F6)	Active Notifications	Record	140 Byte	ro	4 active notifications with highest priority		
1 (0x01)	Notification 1 Number	Bit (1104)	16 Bit	ro			
2 (0x02)	Notification 1 Level	Bit (1096)	8 Bit	ro	0 = No Notification 1 = Info 2 = Warning 3 = Error		
3 (0x03)	Notification 1 Description	Bit (840)	32 Byte	ro			
4 (0x04)	Notification 2 Number	Bit (824)	16 Bit	ro			
5 (0x05)	Notification 2 Level	Bit (816)	8 Bit	ro	0 = No Notification 1 = Info 2 = Warning 3 = Error		
6 (0x06)	Notification 2 Description	Bit (560)	32 Byte	ro			
7 (0x07)	Notification 3 Number	Bit (544)	16 Bit	ro			
8 (0x08)	Notification 3 Level	Bit (536)	8 Bit	ro	0 = No Notification 1 = Info 2 = Warning 3 = Error		
9 (0x09)	Notification 3 Description	Bit (280)	32 Byte	ro			
10 (0x0A)	Notification 4 Number	Bit (264)	16 Bit	ro			
11 (0x0B)	Notification 4 Level	Bit (256)	8 Bit	ro	0 = No Notification 1 = Info 2 = Warning 3 = Error		
12 (0x0C)	Notification 4 Description	Bit (0)	32 Byte	ro			
17342 (0x43BE)	Hardware Identification Key	String	16 Byte	ro			
Standard command							
Index dec (hex)	Standard Command	Access ¹	Value	Name	Remark [Unit]		
2 (0x02)	Standard Command	wo	75	Teach max			
			76	Teach min			
			128	Device Reset			
			130	Restore Factory Settings			
			211	Reset Volume Counter			

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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China Phone +86 4000 121 000 +852 2553 6300	Russland Phone +7 495 775 09 30
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DEUTSCH

1. Physikalische Schicht

Hinweis: Max. Stromaufnahme des IO-Link Devices (inkl. Lastströme) darf max. Ausgangsstrom des Master-Ports nicht überschreiten.

SIO Modus	ja
Min. Zykluszeit	5.0 ms
Baudrate ²	COM3
Prozessdatenlänge (IN)	10 Byte
IODD Version	V1.00
Gültig für IO-Link Version	1.1.0

2. Prozessdaten

Volumenzähler in 0.1L
Temperatur in 0.1°C
Flowrate Einheit abhängig von Index 440 Messmodus
Speed in 0.01m/s
Volumen in 0.1L/min
Relativ in 0.1%

Record: 10 Byte - Prozess Daten Eingabe

Bitoffset																
Byte 0	Volumen [0.1L]	79	78	77	76	75	74	73	72							
Type/Subindex	Unsigned Integer 32															
Bitoffset																
Byte 1	Volumen [0.1L]	71	70	69	68	67	66	65	64							
Type/Subindex	Unsigned Integer 32															
Bitoffset																
Byte 2	Volumen [0.1L]	63	62	61	60	59	58	57	56							
Type/Subindex	Unsigned Integer 32															
Bitoffset																
Byte 3	Volumen [0.1L]	55	54	53	52	51	50	49	48	48						
Type/Subindex	Unsigned Integer 32															
Bitoffset																
Byte 4	Temperatur [0.1°C]	47	46	45	44	43	42	41	40	40						
Type/Subindex	Integer 16															
Bitoffset																
Byte 5	Temperatur [0.1°C]	39	38	37	36	35	34	33	32	32						
Type/Subindex	Integer 16															
Bitoffset																
Byte 6	Durchfluss (Geschwindigkeit [0.01m/s], Volumen [0.1L/min], Relativ [0.1%])	31	30	29	28	27	26	25	24	24						
Type/Subindex	Unsigned Integer 24															
Bitoffset																
Byte 7	Durchfluss (Geschwindigkeit [0.01m/s], Volumen [0.1L/min], Relativ [0.1%])	23	22	21	20	19	18	17	16	16						
Type/Subindex	Unsigned Integer 24															
Bitoffset																
Byte 8	Durchfluss (Geschwindigkeit [0.01m/s], Volumen [0.1L/min], Relativ [0.1%])	15	14	13	12	11	10	9	8	8						
Type/Subindex	Unsigned Integer 24															
Bitoffset																
Byte 9	Warnung Aktiv	7	6	5	4	3	2	1	0	0						
Type/Subindex	Boolean	7	Boolean	6	Unsigned Integer 2	5	Boolean	4	Boolean	3	Boolean	2	Boolean	1	Boolean	0

3. Servicedaten

Die folgenden ISDUs werden nicht über Data-Storage gesichert: Device Specific Tag, Simulation und Sonderfunktion Speicher

Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
12 (0x0C)	Gerätezugriffssperren	Record	2 Byte	rw			
2 (0x02)	Datenspeicherungssperre	Bit (1)	1 Bit	rw			
4 (0x04)	Lokale Benutzerinterface-Sperre	Bit (3)	1 Bit	rw			

¹ ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben

² 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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Estland Phone +34 93 480 31 00	South Africa Phone +27 11 472 3733
France Phone +33 1 64 62 39 00	South Korea Phone +82 2 786 6321/4
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India Phone +91 22 4033 8333	Sri Lanka Phone +94 10 110 10 00
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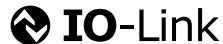
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IO-Link spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
16 (0x10)	Herstellername	String	64 Byte	ro	SICK AG		
18 (0x12)	Produktname	String	64 Byte	ro			
19 (0x13)	Produkt-ID	String	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)	Anwendungsspezifische Markierung	String	32 Byte	rw	***		
36 (0x24)	Gerätstatus	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	10 Byte	ro			
SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
58 (0x3A)	Teach Auswahl	UInt	8 Bit	rw	0	0 = Teach 1 1 = Teach 2 2 = Teach 3	
59 (0x3B)	Teach Status	UInt	8 Bit	ro		0 = Bereit 3 = erfolgreich 4 = Warten auf Teach min 5 = in Arbeit 12 = Fehler Teach max 13 = Fehler Teach min 14 = Fehler Sensor nicht im Teach Modus	
64 (0x40)	Device Specific Tag	String	32 Byte	rw	***		
190 (0xBE)	Betriebssekundenzähler	UInt	32 Bit	ro		Betriebsdauer in Sekunden [s]	
212 (0xD4)	Verzögerung Modus Q1	UInt	8 Bit	rw	4	0 = Einschaltverzögerung 1 = Ausschaltverzögerung 2 = Ein- / Ausschaltverzögerung 4 = deaktiviert	
213 (0xD5)	Verzögerung Modus Q2	UInt	8 Bit	rw	4	0 = Einschaltverzögerung 1 = Ausschaltverzögerung 2 = Ein- / Ausschaltverzögerung 4 = deaktiviert	
214 (0xD6)	Verzögerung Zeitwert Q1	UInt	16 Bit	rw	0		[ms]
215 (0xD7)	Verzögerung Zeitwert Q2	UInt	16 Bit	rw	0		[ms]
258 (0x102)	Spezifikationsgrenze Durchfluss Geschwindigkeit	UInt	16 Bit	ro		abhängig vom gewählten Medium (see index 442) (Parameter in 0.01m/s)	[m/s]
259 (0x103)	Spezifikationsgrenze Durchfluss Volumen	UInt	32 Bit	ro		abhängig vom gewählten Medium (see index 442) und Rohrdurchmesser (see index 441) (Parameter in 0.1L/min)	[L/min]
260 (0x104)	Q1Modus	UInt	8 Bit	rw	0	0 = Durchfluss Hysterese Schliesser 1 = Durchfluss Hysterese Öffner 2 = Durchfluss Fenster Schliesser 3 = Durchfluss Fenster Öffner 6 = Temperatur Hysterese Schliesser 7 = Temperatur Hysterese Öffner 8 = Temperatur Fenster Schliesser 9 = Temperatur Fenster Öffner 16 = Leerrohrerkennung Schließer 17 = Leerrohrerkennung Öffner 18 = Applikationsspezifisch	
267 (0x10B)	Q1 Schaltpunkte Durchfluss Relativ	Record	4 Byte	rw		im Messmodus = Geschwindigkeit relativ oder Teach relativ (see index 440)	
1 (0x01)	Schaltpunkt 1	Bit (16)	16 Bit	rw	0...1000		(Parameter in 0.1%) [%]
2 (0x02)	Schaltpunkt 2	Bit (0)	16 Bit	rw	0...1000		(Parameter in 0.1%) [%]
268 (0x10C)	Q1 Schaltpunkte Durchfluss Geschwindigkeit	Record	4 Byte	rw		im Messmodus = Geschwindigkeit absolut (see index 440)	
1 (0x01)	Schaltpunkt 1	Bit (16)	16 Bit	rw	0...600		(Parameter in 0.01m/s) [m/s]
2 (0x02)	Schaltpunkt 2	Bit (0)	16 Bit	rw	0...600		(Parameter in 0.01m/s) [m/s]
269 (0x10D)	Q1 Schaltpunkte Durchfluss Volumen	Record	8 Byte	rw		im Messmodus = Volumen Durchfluss und Volumenzähler (see index 440)	
1 (0x01)	Schaltpunkt 1	Bit (32)	32 Bit	rw	0...2840000		(Parameter in 0.1L/min) [L/min]
2 (0x02)	Schaltpunkt 2	Bit (0)	32 Bit	rw	0...2840000		(Parameter in 0.1L/min) [L/min]

¹ ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben

² 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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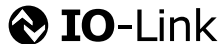
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DEUTSCH

SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
270 (0x10E)	Q1 Schaltpunkte Temperatur	Record	4 Byte	rw			
	1 (0x01) Schaltpunkt 1	Bit (16)	16 Bit	rw	-400...1500	(Parameter in 0.1 °C) [°C]	
290 (0x122)	Q2Modus	UInt	8 Bit	rw	0		0 = Durchfluss Hysterese Schliesser 1 = Durchfluss Hysterese Öffner 2 = Durchfluss Fenster Schliesser 3 = Durchfluss Fenster Öffner 6 = Temperatur Hysterese Schliesser 7 = Temperatur Hysterese Öffner 8 = Temperatur Fenster Schliesser 9 = Temperatur Fenster Öffner 16 = Eingang OR mit Q1 17 = Eingang AND mit Q1 18 = Applikationsspezifisch 20 = Aus Pin Q2 inaktiv 21 = Analogausgang Durchfluss 4-20mA 22 = Analogausgang Temperatur 4-20mA 23 = Pulsausgang Volumen
	2 (0x02) Schaltpunkt 2	Bit (0)	16 Bit	rw	-400...1500	(Parameter in 0.1 °C) [°C]	
297 (0x129)	Q2 Schaltpunkte Durchfluss Relativ	Record	4 Byte	rw	im Messmodus = Geschwindigkeit relativ oder Teach relativ (see index 440)		
	1 (0x01) Schaltpunkt 1	Bit (16)	16 Bit	rw	0...1000	(Parameter in 0.1%) [%]	
298 (0x12A)	Q2 Schaltpunkte Durchfluss Geschwindigkeit	Record	4 Byte	rw	im Messmodus = Geschwindigkeit absolut (see index 440)		
	1 (0x01) Schaltpunkt 1	Bit (16)	16 Bit	rw	0...600	(Parameter in 0.01m/s) [m/s]	
299 (0x12B)	Q2 Schaltpunkte Durchfluss Volumen	Record	8 Byte	rw	im Messmodus = Volumen Durchfluss und Volumenzähler (see index 440)		
	1 (0x01) Schaltpunkt 1	Bit (32)	32 Bit	rw	0...2840000	(Parameter in 0.1L/min) [L/min]	
300 (0x12C)	Q2 Schaltpunkte Temperatur	Record	4 Byte	rw			
	1 (0x01) Schaltpunkt 1	Bit (16)	16 Bit	rw	-400...1500	(Parameter in 0.1 °C) [°C]	
310 (0x136)	Q2 Pulswertigkeit	UInt	16 Bit	rw	1...10000	(Parameter in 0.1L) [L]	
	2 (0x02) Schaltpunkt 2	Bit (0)	16 Bit	rw	-400...1500	(Parameter in 0.1 °C) [°C]	
311 (0x137)	Q2 Pulsbreite	UInt	16 Bit	rw	1...2000	[ms]	
384 (0x180)	Q2a Begrenzungen Durchfluss relativ	Record	4 Byte	rw	im Messmodus = Geschwindigkeit relativ oder Teach relativ (see index 440)		
	1 (0x01) niedrig	Bit (16)	16 Bit	rw	0...1000	(Parameter in 0.1%) [%]	
385 (0x181)	Q2a Begrenzungen Durchfluss Geschwindigkeit	Record	4 Byte	rw	im Messmodus = Geschwindigkeit absolut (see index 440)		
	1 (0x01) niedrig	Bit (16)	16 Bit	rw	0...600	(Parameter in 0.01m/s) [m/s]	
386 (0x182)	Q2a Begrenzungen Durchfluss Volumen	Record	8 Byte	rw	im Messmodus = Volumen Durchfluss und Volumenzähler (see index 440)		
	1 (0x01) niedrig	Bit (32)	32 Bit	rw	0...2840000	(Parameter in 0.1L/min) [L/min]	
387 (0x183)	Q2a Begrenzungen Temperatur	Record	4 Byte	rw			
	1 (0x01) niedrig	Bit (16)	16 Bit	rw	-400...1500	(Parameter in 0.1 °C) [°C]	
390 (0x186)	Q2a Fehlerstrom	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA		
	2 (0x02) hoch	Bit (0)	16 Bit	rw	-400...1500	(Parameter in 0.1 °C) [°C]	
419 (0x1A3)	Einheit Volumen	UInt	8 Bit	rw	0	0 = L (Liter) 1 = m ³ (Kubikmeter) 2 = gal (US Gallone) 3 = ft ³ (Kubikfuß)	Einheiteneinstellung ausschließlich vom Display unterstützt
420 (0x1A4)	Einheit Durchfluss Volumen	UInt	8 Bit	rw	0	0 = L/min (Liter pro Minute) 1 = L/h (Liter pro Stunde) 2 = m ³ /h (Kubikmeter pro Stunde) 3 = Gal/min (US Gallonen pro Minute) 4 = Gal/h (US Gallonen pro Stunde) 5 = ft ³ /min (Kubikfuß pro Minute)	Einheiteneinstellung ausschließlich vom Display unterstützt
421 (0x1A5)	Einheit Durchfluss-Geschwindigkeit	UInt	8 Bit	rw	0	0 = m/s (Meter pro Sekunde) 1 = ft/s (Fuss pro Sekunde)	Einheiteneinstellung ausschließlich vom Display unterstützt
422 (0x1A6)	Einheit Rohrdurchmesser	UInt	8 Bit	rw	0	0 = mm 1 = inch	Einheiteneinstellung ausschließlich vom Display unterstützt
423 (0x1A7)	Einheit Temperatur	UInt	8 Bit	rw	0	0 = °C (Celsius) 1 = °F (Fahrenheit)	Einheiteneinstellung ausschließlich vom Display unterstützt

¹ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben

²COM 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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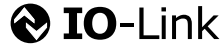
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DEUTSCH

SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
424 (0x1A8)	Anzeigemodus	UInt	8 Bit	rw	0	0 = Durchfluss und Temperatur 1 = Durchfluss und Volumen 2 = Volumen und Temperatur	
425 (0x1A9)	Anzeigesprache	UInt	8 Bit	rw	0 = Englisch 1 = Chinesisch		
426 (0x1AA)	Anzeige drehen	UInt	8 Bit	rw	0 = Standard 1 = 180° gedreht		
433 (0x1B1)	Tastensperre	Bool	1 Bit	rw	0	true = aktiv HMI gesperrt !Passwort! false = inaktiv HMI nicht gesperrt	Tastensperre - Passwort geschützt
440 (0x1B8)	Messmodus	UInt	8 Bit	rw	0	0 = Geschwindigkeit relativ (%) 1 = Geschwindigkeit absolut 2 = Volumen Durchfluss und Volumenzähler 3 = Teach relativ (%)	
441 (0x1B9)	Rohrdurchmesser	UInt	16 Bit	rw	15...1000	[mm]	
442 (0x1BA)	Medium	UInt	8 Bit	rw	0 = Wasser 1 = Öl A 2 = Öl B 3 = Medium 4 4 = Medium 5 5 = Medium 6		
443 (0x1BB)	Simulation	UInt	8 Bit	rw	0	0 = Aus Simulation inaktiv 1 = 0% Durchfluss Simulation 2 = 25% Durchfluss Simulation 3 = 50% Durchfluss Simulation 4 = 75% Durchfluss Simulation 5 = 100% Durchfluss Simulation 6 = -25 °C Temperatur Simulation 7 = 0 °C Temperatur Simulation 8 = 25 °C Temperatur Simulation 9 = 50 °C Temperatur Simulation 10 = 75 °C Temperatur Simulation 11 = 100 °C Temperatur Simulation 12 = 125 °C Temperatur Simulation 13 = 150 °C Temperatur Simulation 14 = Fehler simuliert Fehler	
446 (0x1BE)	Filter (Prozessdaten)	UInt	8 Bit	rw	0 = Aus 1 = 100ms 2 = 200ms 3 = 300ms 5 = 500ms 10 = 1sec 20 = 2sec 30 = 3sec 50 = 5sec 100 = 10sec		
448 (0x1C0)	Linearer Durchflussfaktor	UInt	16 Bit	rw	100	50...150	Applikationsspezifischer Kompensationskoeffizient [%]
449 (0x1C1)	Leerrohrerkennung Faktor	UInt	8 Bit	rw	100	70...140	[%]
450 (0x1C2)	Schleichmengenunterdrückung Durchfluss Relativ (Einschaltpunkt)	UInt	16 Bit	rw	0	0 = inaktiv 1...100 = aktiv	im Messmodus = Geschwindigkeit relativ oder Teach relativ (see index 440) (Parameter in 0.1%) [%]
451 (0x1C3)	Schleichmengenunterdrückung Durchfluss Geschwindigkeit (Einschaltpunkt)	UInt	16 Bit	rw	0	0 = inaktiv 1...60 = aktiv	im Messmodus = Geschwindigkeit absolut (see index 440) (Parameter in 0.01m/s) [m/s]
452 (0x1C4)	Schleichmengenunterdrückung Durchfluss Volumen (Einschaltpunkt)	UInt	32 Bit	rw	0	0 = inaktiv 1...284000 = aktiv	im Messmodus = Volumen Durchfluss und Volumenzähler (see index 440) (Parameter in 0.1L/min) [L/min]
453 (0x1C5)	Schleichmengenunterdrückung Hysterese (Ausschaltpunkt)	UInt	16 Bit	rw	50	5...300	Der Ausschaltpunkt wird als positiver Hysteresewert in Prozent des Einschaltpunktes der ausgewählten Schleichmenge angegeben. [%]
480 (0x1E0)	Signalqualität	UInt	8 Bit	ro	0...100	[%]	
485 (0x1E5)	Einschaltzähler	UInt	32 Bit	ro	Parameter ausschließlich über IO-Link verfügbar		
486 (0x1E6)	Versorgungsspannung	UInt	16 Bit	ro	[mV]		
487 (0x1E7)	Sensortemperatur	Int	16 Bit	ro	(Parameter in 0.1 °C) [°C]		
488 (0x1E8)	Max Mediumtemperatur	Int	16 Bit	ro	(Parameter in 0.1 °C) Parameter ausschließlich über IO-Link verfügbar [°C]		
489 (0x1E9)	Min Mediumtemperatur	Int	16 Bit	ro	(Parameter in 0.1 °C) Parameter ausschließlich über IO-Link verfügbar [°C]		
494 (0x1EE)	Zurücksetzen Min/Max	UInt	8 Bit	wo	0 = alle 1 = Mediumtemperatur 2 = reserviert	Parameter ausschließlich über IO-Link verfügbar	

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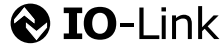
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Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
494 (0x1EE)	Zurücksetzen Min/Max	UInt	8 Bit	wo	0 = alle 1 = Mediumtemperatur 2 = reserviert	Parameter ausschließlich über IO-Link verfügbar	
500 (0x1F4)	Fehlervverzögerung	UInt	8 Bit	rw	0 = Aus 1 = 1 sec 2 = 2 sec 5 = 5 sec 10 = 10 sec 30 = 30 sec	Parameter ausschließlich über IO-Link verfügbar	
501 (0x1F5)	Fehlerschwelle	UInt	8 Bit	rw	0	0 = Fehler 1 = Fehler + Warnung	Parameter ausschließlich über IO-Link verfügbar
502 (0x1F6)	Aktive Meldungen	Record	140 Byte	ro	4 aktive Meldungen mit höchster Priorität		
1 (0x01)	Meldung 1 Nummer	Bit (1104)	16 Bit	ro			
2 (0x02)	Meldung 1 Level	Bit (1096)	8 Bit	ro	0 = keine Meldung 1 = Information 2 = Warnung 3 = Fehler		
3 (0x03)	Meldung 1 Beschreibung	Bit (840)	32 Byte	ro			
4 (0x04)	Meldung 2 Nummer	Bit (824)	16 Bit	ro			
5 (0x05)	Meldung 2 Level	Bit (816)	8 Bit	ro	0 = keine Meldung 1 = Information 2 = Warnung 3 = Fehler		
6 (0x06)	Meldung 2 Beschreibung	Bit (560)	32 Byte	ro			
7 (0x07)	Meldung 3 Nummer	Bit (544)	16 Bit	ro			
8 (0x08)	Meldung 3 Level	Bit (536)	8 Bit	ro	0 = keine Meldung 1 = Information 2 = Warnung 3 = Fehler		
9 (0x09)	Meldung 3 Beschreibung	Bit (280)	32 Byte	ro			
10 (0x0A)	Meldung 4 Nummer	Bit (264)	16 Bit	ro			
11 (0x0B)	Meldung 4 Level	Bit (256)	8 Bit	ro	0 = keine Meldung 1 = Information 2 = Warnung 3 = Fehler		
12 (0x0C)	Meldung 4 Beschreibung	Bit (0)	32 Byte	ro			
17342 (0x43BE)	Hardware Identification Key	String	16 Byte	ro			

Standardkommando							
Index dez (hex)	Name	Zugriff ¹	Wert	Name	Bemerkung [Einheit]		
2 (0x02)	Standardkommando	wo	75	Teach max			
			76	Teach min			
			128	Gerät rücksetzen			
			130	Auslieferungszustand wiederherstellen			
			211	Volumenzähler zurücksetzen			

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