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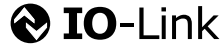
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

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	3.0 ms
Baudrate ²	COM3
Process Data Length (IN)	32 Byte
IODD version	V1.00
Valid for IO-Link version	1.1.0

2. Process data

Mass Flow Rate [kg/h]
Flow Velocity [m/s]
Volume [m³]
Volumetric Flow Rate [m³/h]
Mass [kg]
Energy [kWh]
Temperature [°C]
Pressure [bar]

Record: 32 Byte - Process Data In

Bitoffset				224
Byte/Name	0	1	2	Mass Flow Rate
Type/Subindex				Float
Bitoffset				192
Byte/Name	4	5	6	Flow Velocity
Type/Subindex				Float
Bitoffset				160
Byte/Name	8	9	10	Volume
Type/Subindex				Float
Bitoffset				128
Byte/Name	12	13	14	Volumetric Flow Rate
Type/Subindex				Float
Bitoffset				96
Byte/Name	16	17	18	Mass
Type/Subindex				Float
Bitoffset				64
Byte/Name	20	21	22	Energy
Type/Subindex				Float
Bitoffset				32
Byte/Name	24	25	26	Temperature
Type/Subindex				Float
Bitoffset				0
Byte/Name	28	29	30	Pressure
Type/Subindex				Float

3. Service data

The following ISDUs will not be saved via Data-Storage: Direct Parameters 1, Direct Parameters 2, Device Specific Tag, Q1 Simulate, Q2 Switch Simulate, Q2 Freq Simulate, Qa Analog Simulate, Q2 Analog Simulate, Simulate Flow, Simulate Temperature, Simulate Pressure 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			
16 (0x10)	Vendor Name	String	64 Byte	ro	SICK AG		
17 (0x11)	Vendor Text	String	64 Byte	ro			
18 (0x12)	Product Name	String	64 Byte	ro			

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

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	3.0 ms
Baudrate ²	COM3
Prozessdatenlänge (IN)	32 Byte
IODD Version	V1.00
Gültig für IO-Link Version	1.1.0

2. Prozessdaten

Massendurchfluss [kg/h]
Durchflussgeschwindigkeit [m/s]
Volumen [m³]
Volumendurchfluss [m³/h]
Masse [kg]
Energie [kWh]
Temperatur [°C]
Druck [bar]

Record: 32 Byte - Prozessdaten

Bitoffset				224
Byte/Name	0	1	2	Massendurchfluss
Type/Subindex				Float
Bitoffset				192
Byte/Name	4	5	6	Durchflussgeschwindigkeit
Type/Subindex				Float
Bitoffset				160
Byte/Name	8	9	10	Volumen
Type/Subindex				Float
Bitoffset				128
Byte/Name	12	13	14	Volumendurchfluss
Type/Subindex				Float
Bitoffset				96
Byte/Name	16	17	18	Masse
Type/Subindex				Float
Bitoffset				64
Byte/Name	20	21	22	Energie
Type/Subindex				Float
Bitoffset				32
Byte/Name	24	25	26	Temperatur
Type/Subindex				Float
Bitoffset				0
Byte/Name	28	29	30	Druck
Type/Subindex				Float

3. Servicedaten

Die folgenden ISDUs werden nicht über Data-Storage gesichert: Direkte Parameter 1, Direkte Parameter 2, Sensorspezifischer Name, Q1 Simulation Schaltausgang, Q2 Schaltausgang Simulation, Q2 Frequenz Simulation, Qa Analogwert Simulation, Q2 Analogwert Simulation, Simulation Durchfluss, Simulation Temperatur, Simulation Druck 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			
2 (0x02)	Datenspeicherungs-sperre	Bit (1)	1 Bit	rw			
4 (0x04)	Lokale Benutzerinter-face-Sperre	Bit (3)	1 Bit	rw			
16 (0x10)	Herstellername	String	64 Byte	ro	SICK AG		
17 (0x11)	Herstellertext	String	64 Byte	ro			



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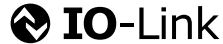
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ENGLISH							
SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
302 (0x12E)	Q2 Switch Unit and Range	String	32 Byte	ro	unit and range for index 300 and 301		
307 (0x133)	Q2 Switch Simulate	UInt	8 Bit	rw	255	0 = inactive 1 = active 255 = Normal	
308 (0x134)	Q2 Switch Polarity	UInt	8 Bit	rw	0 = NormallyOpen 1 = NormallyClosed		
309 (0x135)	Q2 Pulse Unit and Range	String	32 Byte	ro	unit and range for index 310		
310 (0x136)	Q2 Pulse Valency	Float	4 Byte	rw	0.001...10 0.0	see index 309	
311 (0x137)	Q2 Pulse Width	UInt	32 Bit	rw	1...2000	[ms]	
312 (0x138)	Q2 Pulse Mode	UInt	8 Bit	rw	0 = Volume 1 = Energy		
313 (0x139)	Q2 Freq High	Float	4 Byte	rw	- 30.0...999 9.0	see index 315	
314 (0x13A)	Q2 Freq Low	Float	4 Byte	rw	- 30.0...999 9.0	see index 315	
315 (0x13B)	Q2 Freq Unit and Range	String	32 Byte	ro	unit and range for index 313 and 314		
316 (0x13C)	Q2 Freq MaxFreq	UInt	16 Bit	rw	0...10000	[Hz]	
317 (0x13D)	Q2 Freq MinFreq	UInt	16 Bit	rw	0...10000	[Hz]	
318 (0x13E)	Q2 Freq Simulate	UInt	8 Bit	rw	255	0 = 1Hz 1 = 10Hz 2 = 100Hz 3 = 1kHz 4 = 10kHz 255 = SimOff	
319 (0x13F)	Q2 Freq Mode	UInt	8 Bit	rw	0 = VolumetricFlowRate		
380 (0x17C)	Qa Analog Mode	UInt	8 Bit	rw	0 = 4-20mA Volumetric Flow Rate 1 = 4-20mA Pressure 2 = 4-20mA Temperature		
383 (0x17F)	Qa Analog Polarity	UInt	8 Bit	rw	0 = Normal 1 = Inverted		
384 (0x180)	Qa Analog High	Float	4 Byte	rw	- 30.0...999 9.0	see index 386	
385 (0x181)	Qa Analog Low	Float	4 Byte	rw	- 30.0...999 9.0	see index 386	
386 (0x182)	Qa Analog Unit and Range	String	32 Byte	ro	unit and range for index 384 and 385		
390 (0x186)	Qa Analog Fail	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA		
391 (0x187)	Qa Analog Simulate	UInt	8 Bit	rw	255	35 = 3.5mA 38 = 3.8mA 40 = 4.0mA 100 = 10mA 120 = 12mA 180 = 18mA 200 = 20mA 205 = 20.5mA 215 = 21.5mA 255 = SimOff	
400 (0x190)	Q2 Analog Mode	UInt	8 Bit	rw	0 = 4-20mA Volumetric Flow Rate 1 = 4-20mA Pressure 2 = 4-20mA Temperature		
403 (0x193)	Q2 Analog Polarity	UInt	8 Bit	rw	0 = Normal 1 = Inverted		
404 (0x194)	Q2 Analog High	Float	4 Byte	rw	- 30.0...999 9.0	see index 406	
405 (0x195)	Q2 Analog Low	Float	4 Byte	rw	- 30.0...999 9.0	see index 406	

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]
302 (0x12E)	Q2 Schausgang Einheit und Bereich	String	32 Byte	ro	Einheit und Bereich für Index 300 und 301		
307 (0x133)	Q2 Schaltausgang Simulation	UInt	8 Bit	rw	255	0 = inaktiv 1 = aktiv 255 = Normal	
308 (0x134)	Q2 Schaltausgang Polarität	UInt	8 Bit	rw	0 = Schließer 1 = Öffner		
309 (0x135)	Qa Pulsausgang Einheit und Bereich	String	32 Byte	ro	Einheit und Bereich für Index 310		
310 (0x136)	Q2 Pulswertigkeit	Float	4 Byte	rw	0.001...10 0.0	siehe Index 309	
311 (0x137)	Q2 Pulsbreite	UInt	32 Bit	rw	1...2000	[ms]	
312 (0x138)	Q2 Pulsmodus	UInt	8 Bit	rw	0 = Volumen 1 = Energie		
313 (0x139)	Q2 oberer Frequenzwert	Float	4 Byte	rw	- 30.0...999 9.0	siehe Index 315	
314 (0x13A)	Q2 unterer Frequenzwert	Float	4 Byte	rw	- 30.0...999 9.0	siehe Index 315	
315 (0x13B)	Q2 Frequenz Einheit und Bereich	String	32 Byte	ro	Einheit und Bereich für Index 313 und 314		
316 (0x13C)	Q2 Maximale Frequenz	UInt	16 Bit	rw	0...10000	[Hz]	
317 (0x13D)	Q2 Minimale Frequenz	UInt	16 Bit	rw	0...10000	[Hz]	
318 (0x13E)	Q2 Frequenz Simulation	UInt	8 Bit	rw	255	0 = 1Hz 1 = 10Hz 2 = 100Hz 3 = 1kHz 4 = 10kHz 255 = Simulation aus	
319 (0x13F)	Q2 Frequenzmodus	UInt	8 Bit	rw	0 = Volumendurchfluss		
380 (0x17C)	Qa Analog Modus	UInt	8 Bit	rw	0 = 4-20mA Volumendurchfluss 1 = 4-20mA Druck 2 = 4-20mA Temperatur		
383 (0x17F)	Qa Analog Polarität	UInt	8 Bit	rw	0 = Normal 1 = Invertiertes Signal		
384 (0x180)	Qa oberer Analogwert (20mA)	Float	4 Byte	rw	- 30.0...999 9.0	siehe Index 386	
385 (0x181)	Qa unterer Analogwert (4mA)	Float	4 Byte	rw	- 30.0...999 9.0	siehe Index 386	
386 (0x182)	Qa Analogsignal Einheit und Bereich	String	32 Byte	ro	Einheit und Bereich für Index 384 und 385		
390 (0x186)	Qa Analogsignal im Fehlerfall	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA		
391 (0x187)	Qa Analogwert Simulation	UInt	8 Bit	rw	255	35 = 3.5mA 38 = 3.8mA 40 = 4.0mA 100 = 10mA 120 = 12mA 180 = 18mA 200 = 20mA 205 = 20.5mA 215 = 21.5mA 255 = Simulation aus	
400 (0x190)	Q2 Analogmodus	UInt	8 Bit	rw	0 = 4-20mA Volumendurchfluss 1 = 4-20mA Druck 2 = 4-20mA Temperatur		
403 (0x193)	Q2 Analog Polarität	UInt	8 Bit	rw	0 = Normal 1 = Invertiertes Signal		
404 (0x194)	Q2 oberer Analogwert (20mA)	Float	4 Byte	rw	- 30.0...999 9.0	siehe Index 406	
405 (0x195)	Q2 unterer Analogwert (4mA)	Float	4 Byte	rw	- 30.0...999 9.0	siehe Index 406	



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Singapore Phone +65 6744 3732
Svejska Phone +386 (0)1 47 69 990
Svejska Phone +27 11 472 3733
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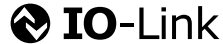
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SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
405 (0x195)	Q2 Analog Low	Float	4 Byte	rw	-30.0...999.9.0	see index 406	
406 (0x196)	Q2 Analog Unit and Range	String	32 Byte	ro	unit and range for index 404 and 405		
410 (0x19A)	Q2 Analog Fail	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA		
411 (0x19B)	Q2 Analog Simulate	UInt	8 Bit	rw	255	35 = 3.5mA 38 = 3.8mA 40 = 4.0mA 100 = 10mA 120 = 12mA 180 = 18mA 200 = 20mA 205 = 20.5mA 215 = 21.5mA 255 = SimOff	
420 (0x1A4)	Display Unit Mass Flow Rate	UInt	8 Bit	rw	0 = kg/h 1 = g/s 2 = kg/min		
421 (0x1A5)	Display Unit Flow Velocity	UInt	8 Bit	rw	0 = m/s 1 = fps		
422 (0x1A6)	Display Unit Volume	UInt	8 Bit	rw	0 = m ³ 1 = l 2 = ft ³		
423 (0x1A7)	Display Unit Volumetric Flow Rate	UInt	8 Bit	rw	0 = m ³ /h 1 = m ³ /min 2 = l/s 3 = l/min 4 = ft ³ /s 5 = ft ³ /min		
424 (0x1A8)	Display Unit Mass	UInt	8 Bit	rw	0 = kg		
425 (0x1A9)	Display Unit Energy	UInt	8 Bit	rw	0 = kWh		
426 (0x1AA)	Display Unit Temperature	UInt	8 Bit	rw	0 = °C 1 = °F		
427 (0x1AB)	Display Unit Pressure	UInt	8 Bit	rw	0 = bar 1 = psi		
428 (0x1AC)	Display Auto Off	UInt	8 Bit	rw	0 = Off 1 = 1min 2 = 2min 5 = 5min 10 = 10min 30 = 30min 60 = 60min		
429 (0x1AD)	Display Rotation	UInt	8 Bit	rw	0 = 0° 1 = 90° 2 = 180° 3 = 270°		
430 (0x1AE)	Display ScreenSaver	UInt	8 Bit	rw	0 = Off 1 = 1min 2 = 2min 5 = 5min 10 = 10min 30 = 30min 60 = 60min		
431 (0x1AF)	Display Brightness	UInt	8 Bit	rw	2 = 40% 7 = 60% 10 = 80% 15 = 100%		
432 (0x1B0)	Display Pin	UInt	16 Bit	rw	0...9999	pin to protect display configuration, 0000=no pin	
433 (0x1B1)	Display 1 Top	UInt	8 Bit	rw	0 = Mass Flow Rate 1 = Flow Velocity 2 = Volume 3 = Volumetric Flow Rate 4 = Mass 5 = Energy 6 = Temperature 7 = Pressure		

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DEUTSCH							
SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
405 (0x195)	Q2 unterer Analogwert (4mA)	Float	4 Byte	rw	-30.0...999.9.0	siehe Index 406	
406 (0x196)	Q2 Analogsignal Einheit und Bereich	String	32 Byte	ro	Einheit und Bereich für Index 404 und 405		
410 (0x19A)	Q2 Analogwert im Fehlerfall	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA		
411 (0x19B)	Q2 Analogwert Simulation	UInt	8 Bit	rw	255	35 = 3.5mA 38 = 3.8mA 40 = 4.0mA 100 = 10mA 120 = 12mA 180 = 18mA 200 = 20mA 205 = 20.5mA 215 = 21.5mA 255 = Simulation aus	
420 (0x1A4)	Anzeige Einheit Massendurchfluss	UInt	8 Bit	rw	0 = kg/h 1 = g/s 2 = kg/min		
421 (0x1A5)	Anzeige Einheit Gasgeschwindigkeit	UInt	8 Bit	rw	0 = m/s 1 = fps		
422 (0x1A6)	Anzeige Einheit Volumen	UInt	8 Bit	rw	0 = m ³ 1 = l 2 = ft ³		
423 (0x1A7)	Anzeige Einheit Volumendurchfluss	UInt	8 Bit	rw	0 = m ³ /h 1 = m ³ /min 2 = l/s 3 = l/min 4 = ft ³ /s 5 = ft ³ /min		
424 (0x1A8)	Anzeige Einheit Masse	UInt	8 Bit	rw	0 = kg		
425 (0x1A9)	Anzeige Einheit Energie	UInt	8 Bit	rw	0 = kWh		
426 (0x1AA)	Anzeige Einheit Temperatur	UInt	8 Bit	rw	0 = °C 1 = °F		
427 (0x1AB)	Anzeige Einheit Druck	UInt	8 Bit	rw	0 = bar 1 = psi		
428 (0x1AC)	Anzeige ausschalten	UInt	8 Bit	rw	0 = Aus 1 = 1min 2 = 2min 5 = 5min 10 = 10min 30 = 30min 60 = 60min		
429 (0x1AD)	Anzeige drehen	UInt	8 Bit	rw	0 = 0° 1 = 90° 2 = 180° 3 = 270°		
430 (0x1AE)	Anzeigenschoner	UInt	8 Bit	rw	0 = Aus 1 = 1min 2 = 2min 5 = 5min 10 = 10min 30 = 30min 60 = 60min		
431 (0x1AF)	Anzeige Helligkeit	UInt	8 Bit	rw	2 = 40% 7 = 60% 10 = 80% 15 = 100%		
432 (0x1B0)	Anzeige Pin	UInt	16 Bit	rw	0...9999	Pin zum Schutz der Konfiguration, 0000 ==> kein Pin vergeben	
433 (0x1B1)	Anzeige 1 oben	UInt	8 Bit	rw	0 = Massendurchfluss 1 = Durchflussgeschwindigkeit 2 = Volumen 3 = Volumendurchfluss 4 = Masse 5 = Energie 6 = Temperatur 7 = Druck		



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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]
434 (0x1B2)	Display 1 Bottom	UInt	8 Bit	rw	0 = Mass Flow Rate 1 = Flow Velocity 2 = Volume 3 = Volumetric Flow Rate 4 = Mass 5 = Energy 6 = Temperature 7 = Pressure		
435 (0x1B3)	Display 2 Top	UInt	8 Bit	rw	0 = Mass Flow Rate 1 = Flow Velocity 2 = Volume 3 = Volumetric Flow Rate 4 = Mass 5 = Energy 6 = Temperature 7 = Pressure		
436 (0x1B4)	Display 2 Bottom	UInt	8 Bit	rw	0 = Mass Flow Rate 1 = Flow Velocity 2 = Volume 3 = Volumetric Flow Rate 4 = Mass 5 = Energy 6 = Temperature 7 = Pressure		
437 (0x1B5)	Display 3 Top	UInt	8 Bit	rw	0 = Mass Flow Rate 1 = Flow Velocity 2 = Volume 3 = Volumetric Flow Rate 4 = Mass 5 = Energy 6 = Temperature 7 = Pressure		
438 (0x1B6)	Display 3 Bottom	UInt	8 Bit	rw	0 = Mass Flow Rate 1 = Flow Velocity 2 = Volume 3 = Volumetric Flow Rate 4 = Mass 5 = Energy 6 = Temperature 7 = Pressure		
439 (0x1B7)	Display History	UInt	8 Bit	rw	0 = Mass Flow Rate 1 = Flow Velocity 2 = Volume 3 = Volumetric Flow Rate 4 = Mass 5 = Energy 6 = Temperature 7 = Pressure		
440 (0x1B8)	Simulate Flow	UInt	8 Bit	rw	0 = 0% 10 = 10% 20 = 20% 30 = 30% 40 = 40% 50 = 50% 60 = 60% 70 = 70% 80 = 80% 90 = 90% 100 = 100% 255 = SimOff		
441 (0x1B9)	Simulate Temperature	UInt	8 Bit	rw	0 = 0% 10 = 10% 20 = 20% 30 = 30% 40 = 40% 50 = 50% 60 = 60% 70 = 70% 80 = 80% 90 = 90% 100 = 100% 255 = SimOff		

DEUTSCH								
SICK spezifisch								
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]	
434 (0x1B2)	Anzeige 1 unten	UInt	8 Bit	rw	0 = Massendurchfluss 1 = Durchflussgeschwindigkeit 2 = Volumen 3 = Volumendurchfluss 4 = Masse 5 = Energie 6 = Temperatur 7 = Druck			
435 (0x1B3)	Anzeige 2 oben	UInt	8 Bit	rw	0 = Massendurchfluss 1 = Durchflussgeschwindigkeit 2 = Volumen 3 = Volumendurchfluss 4 = Masse 5 = Energie 6 = Temperatur 7 = Druck			
436 (0x1B4)	Anzeige 2 unten	UInt	8 Bit	rw	0 = Massendurchfluss 1 = Durchflussgeschwindigkeit 2 = Volumen 3 = Volumendurchfluss 4 = Masse 5 = Energie 6 = Temperatur 7 = Druck			
437 (0x1B5)	Anzeige 3 oben	UInt	8 Bit	rw	0 = Massendurchfluss 1 = Durchflussgeschwindigkeit 2 = Volumen 3 = Volumendurchfluss 4 = Masse 5 = Energie 6 = Temperatur 7 = Druck			
438 (0x1B6)	Anzeige 3 unten	UInt	8 Bit	rw	0 = Massendurchfluss 1 = Durchflussgeschwindigkeit 2 = Volumen 3 = Volumendurchfluss 4 = Masse 5 = Energie 6 = Temperatur 7 = Druck			
439 (0x1B7)	Anzeige Historie	UInt	8 Bit	rw	0 = Massendurchfluss 1 = Durchflussgeschwindigkeit 2 = Volumen 3 = Volumendurchfluss 4 = Masse 5 = Energie 6 = Temperatur 7 = Druck			
440 (0x1B8)	Simulation Durchfluss	UInt	8 Bit	rw	0 = 0% 10 = 10% 20 = 20% 30 = 30% 40 = 40% 50 = 50% 60 = 60% 70 = 70% 80 = 80% 90 = 90% 100 = 100% 255 = Simulation Aus			
441 (0x1B9)	Simulation Temperatur	UInt	8 Bit	rw	0 = 0% 10 = 10% 20 = 20% 30 = 30% 40 = 40% 50 = 50% 60 = 60% 70 = 70% 80 = 80% 90 = 90% 100 = 100% 255 = Simulation Aus			

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)



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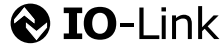
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Please note the validity of the additional operating instructions for automation functions

ENGLISH							
SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
442 (0x1BA)	Simulate Pressure	Ulnt	8 Bit	rw	0 = 0% 10 = 10% 20 = 20% 30 = 30% 40 = 40% 50 = 50% 60 = 60% 70 = 70% 80 = 80% 90 = 90% 100 = 100% 255 = SimOff		
443 (0x1BB)	Meas Flow Medium	Ulnt	8 Bit	rw	0 = Air 1 = Nitrogen 2 = CO2 3 = Helium 4 = Argon		
444 (0x1BC)	Meas Flow Ref Conditions	Ulnt	8 Bit	rw	0 = ISO8778 1 = ISO6358 2 = DIN1343 3 = DIN1945-1 4 = ISO1217 5 = ISO2533 6 = UserDefined		
445 (0x1BD)	Meas Flow User Def Ref Pressure	Float	4 Byte	rw	-1.0...16.0		
446 (0x1BE)	Meas Flow User Def Ref Temperature	Float	4 Byte	rw	-20.0...60.0		
447 (0x1BF)	Meas Flow Zero Flow Offset	Float	4 Byte	rw	-10.0...10.0		
448 (0x1C0)	Meas Flow Zero Flow Low Cut	Float	4 Byte	rw	0.0...10.0		
449 (0x1C1)	Meas Flow Smoothing Filter	Ulnt	8 Bit	rw	0 = Off 1 = 100ms 2 = 200ms 5 = 500ms 10 = 1sec 20 = 2sec 50 = 5sec 100 = 10sec		
450 (0x1C2)	Meas Flow Measuring Mode	Ulnt	8 Bit	rw	0 = Standard		
453 (0x1C5)	Meas Pressure Zero Point Offset	Float	4 Byte	rw	-0.5...0.5	[bar]	
454 (0x1C6)	Meas Pressure Smoothing Filter	Ulnt	8 Bit	rw	0 = Off 1 = 100ms 2 = 200ms 5 = 500ms 10 = 1sec 20 = 2sec 50 = 5sec 100 = 10sec		
458 (0x1CA)	Meas Temperature Smoothing Filter	Ulnt	8 Bit	rw	0 = Off 1 = 100ms 2 = 200ms 5 = 500ms 10 = 1sec 20 = 2sec 50 = 5sec 100 = 10sec		
481 (0x1E1)	Meas Signal Quality 1	Ulnt	8 Bit	ro	0...100	[%]	
482 (0x1E2)	Meas Signal Quality 2	Ulnt	8 Bit	ro	0...100	[%]	
483 (0x1E3)	Meas Signal Quality 3	Ulnt	8 Bit	ro	0...100	[%]	
484 (0x1E4)	Meas Signal Quality 4	Ulnt	8 Bit	ro	0...100	[%]	
485 (0x1E5)	PowerUp Counter	Ulnt	32 Bit	ro			
486 (0x1E6)	Supply Voltage	Float	4 Byte	ro	[V]		
487 (0x1E7)	Sensor Temp	Float	4 Byte	ro	(Parameter in 0.1 °C) [°C]		

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]	
442 (0x1BA)	Simulation Druck	Ulnt	8 Bit	rw	0 = 0% 10 = 10% 20 = 20% 30 = 30% 40 = 40% 50 = 50% 60 = 60% 70 = 70% 80 = 80% 90 = 90% 100 = 100% 255 = Simulation Aus			
443 (0x1BB)	Durchflussmedium	Ulnt	8 Bit	rw	0 = Luft 1 = Nitrogen 2 = Kohlendioxid CO2 3 = Helium 4 = Argon			
444 (0x1BC)	Referenzkonditionen für den Durchfluss	Ulnt	8 Bit	rw	0 = ISO8778 1 = ISO6358 2 = DIN1343 3 = DIN1945-1 4 = ISO1217 5 = ISO2533 6 = Kundenspezifisch			
445 (0x1BD)	Kundenspezifischer Referenzdruck	Float	4 Byte	rw	-1.0...16.0			
446 (0x1BE)	Kundenspezifische Referenztemperatur	Float	4 Byte	rw	-20.0...60.0			
447 (0x1BF)	Eingabe Nullpunktversatz für Durchfluss	Float	4 Byte	rw	-10.0...10.0			
448 (0x1C0)	Eingabe Schleichmengenunterdrückung	Float	4 Byte	rw	0.0...10.0			
449 (0x1C1)	Eingabe Glättungsfilter für Durchfluss	Ulnt	8 Bit	rw	0 = Aus 1 = 100ms 2 = 200ms 5 = 500ms 10 = 1sec 20 = 2sec 50 = 5sec 100 = 10sec			
450 (0x1C2)	Durchfluss-Messmodus	Ulnt	8 Bit	rw	0 = Standard			
453 (0x1C5)	Eingabe Nullpunktversatz für Druck	Float	4 Byte	rw	-0.5...0.5	[bar]		
454 (0x1C6)	Eingabe Glättungsfilter für Druck	Ulnt	8 Bit	rw	0 = Aus 1 = 100ms 2 = 200ms 5 = 500ms 10 = 1sec 20 = 2sec 50 = 5sec 100 = 10sec			
458 (0x1CA)	Eingabe Glättungsfilter für Temperatur	Ulnt	8 Bit	rw	0 = Aus 1 = 100ms 2 = 200ms 5 = 500ms 10 = 1sec 20 = 2sec 50 = 5sec 100 = 10sec			
481 (0x1E1)	Signalquality 1 (Sensorrobustheit)	Ulnt	8 Bit	ro	0...100	[%]		
482 (0x1E2)	Signalqualität 2	Ulnt	8 Bit	ro	0...100	[%]		
483 (0x1E3)	Signalqualität 3	Ulnt	8 Bit	ro	0...100	[%]		
484 (0x1E4)	Signalqualität 4	Ulnt	8 Bit	ro	0...100	[%]		
485 (0x1E5)	PowerUp Zähler	Ulnt	32 Bit	ro				
486 (0x1E6)	Spannungsversorgung Sensor	Float	4 Byte	ro	[V]			
487 (0x1E7)	Sensor Temperatur	Float	4 Byte	ro	(Parameter in 0.1 °C) [°C]			



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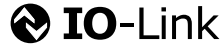
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SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
488 (0x1E8)	Statistic Mass Flow Rate	Record	12 Byte	ro			
1 (0x01)	Min	Bit (64)	4 Byte	ro			
2 (0x02)	Max	Bit (32)	4 Byte	ro			
3 (0x03)	Mean	Bit (0)	4 Byte	ro			
489 (0x1E9)	Statistic Flow Velocity	Record	12 Byte	ro	see index 488		
490 (0x1EA)	Statistic Volumetric Flow Rate	Record	12 Byte	ro	see index 488		
491 (0x1EB)	Statistic Temperature	Record	12 Byte	ro	see index 488		
492 (0x1EC)	Statistic Pressure	Record	12 Byte	ro	see index 488		
493 (0x1ED)	Statistic Duration Since Reset	Ulnt	32 Bit	ro	see index 488		
496 (0x1F0)	Counter Duration Since Reset	Ulnt	32 Bit	ro	Reset Process Data rVolume, rMass, rEnergy		
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	32 Byte	ro			

Standard command					
Index dec (hex)	Name	Access ¹	Value	Remark [Unit]	
2 (0x02)	Standard Command	wo	83	BM_ACTIVATE	
			128	Device Reset	
			130	Restore Factory Settings	
			210	App Statistic Reset All	
			211	App Counter Reset All	

DEUTSCH							
SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
488 (0x1E8)	Statistik Massendurchfluss	Record	12 Byte	ro			
1 (0x01)	Minimal	Bit (64)	4 Byte	ro			
2 (0x02)	Maximal	Bit (32)	4 Byte	ro			
3 (0x03)	Durchschnittlicher Wert	Bit (0)	4 Byte	ro			
489 (0x1E9)	Statistik Durchflussgeschwindigkeit	Record	12 Byte	ro	siehe Index 488		
490 (0x1EA)	Statistik Volumendurchfluss	Record	12 Byte	ro	siehe Index 488		
491 (0x1EB)	Statistik Temperatur	Record	12 Byte	ro	siehe Index 488		
492 (0x1EC)	Statistik Druck	Record	12 Byte	ro	siehe Index 488		
493 (0x1ED)	Statistikdauer seit Reset	Ulnt	32 Bit	ro	siehe Index 488		
496 (0x1F0)	Zählerstand seit Reset	Ulnt	32 Bit	ro	Reset Prozessdaten rVolume, rMass, rEnergy		
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 Identifikationschlüssel	String	32 Byte	ro			

Standardkommando					
Index dez (hex)	Name	Zugriff ¹	Wert	Name	Bemerkung [Einheit]
2 (0x02)	Standardkommando	wo	83	BM_ACTIVATE	
			128	Gerät rücksetzen	
			130	Auslieferungszustand wiederherstellen	
			210	Reset aller Statistikwerte	
			211	Reset aller Zählerwerte	

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)