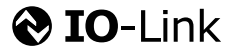




TDR-Füllstandsmessgerät
TDR-Fill-Level Sensor
SFP-...



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

ENGLISH	
1. Physical layer	
SIO Modus	yes
Min Cycle Time	16000 µs
Baudrate	COM2
Process Data Length	32 Bit
2. Process data	
Record: 4 Byte	
Bitoffset	
Byte 0	Level 31 30 29 28 27 26 25 24
Type/Subindex	Unsigned Integer 14
Bitoffset	
Byte 1	Level 23 22 21 20 19 18 17 16
Type/Subindex	Unsigned Integer 14 7 Integer 12
Bitoffset	
Byte 2	Reserved 15 14 13 12 11 10 9 8
Type/Subindex	Integer 12
Bitoffset	
Byte 3	Reserved 7 6 DeviceState 5 4 Q4 3 Q3 2 Q2 1 Q1 0
Type/Subindex	Integer 12 6 Unsigned Integer 2 5 Boolean 4 Boolean 3 Boolean 2 Boolean 1

DEUTSCH	
1. Physikalische Schicht	
SIO Modus	ja
Min. Zykluszeit	16000 µs
Baudrate	COM2
Prozessdatenlänge	32 Bit
2. Prozessdaten	
Record: 4 Byte	
Bitoffset	
Byte 0	Level 31 30 29 28 27 26 25 24
Type/Subindex	Unsigned Integer 14 7
Bitoffset	
Byte 1	Level 23 22 21 20 19 18 17 16
Type/Subindex	Unsigned Integer 14 7 Integer 12
Bitoffset	
Byte 2	reserviert 15 14 13 12 11 10 9 8
Type/Subindex	Integer 12 6
Bitoffset	
Byte 3	reserviert 7 6 Systemzustand 5 4 Q4 3 Q3 2 Q2 1 Q1 0
Type/Subindex	Integer 12 6 Unsigned Integer 2 5 Boolean 4 Boolean 3 Boolean 2 Boolean 1

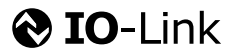
3. Service data							
IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access	Default Value	Value / Range	Remark [Unit]
16 (0x10)	Vendor Name	String	64 Byte	ro		Seli GmbH	
18 (0x12)	Product Name	String	64 Byte	ro			
19 (0x13)	Product ID	String	64 Byte	ro			
21 (0x15)	Serial Number	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	16 Byte	rw	***		
device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access	Default Value	Value / Range	Remark [Unit]
64 (0x40)	Device Specific Tag	String	16 Byte	rw	***		
90 (0x5A)	Part Number	String	8 Byte	ro		Part Number	
100 (0x64)	SP1/FH1	UInt	16 Bit	rw	0...6005	Q1 SP1: Setpoint / FH1: High Limit Point	
101 (0x65)	RP1/FL1	UInt	16 Bit	rw	0...6005	Q1 RP1: Resetpoint / FL1: Low Limit Point	
102 (0x66)	OU1	UInt	8 Bit	rw	0 = Q1_Hno 1 = Q1_Hnc 2 = Q1_Fno 3 = Q1_Fnc 4 = Q1_Eno 5 = Q1_Enc	Q1 Funktion	
103 (0x67)	SimQ1	UInt	8 Bit	rw	0 = Q1Norm 1 = Q1On 2 = Q1Off	Simulate Q1	
104 (0x68)	SP2/FH2	UInt	16 Bit	rw	0...6005	Q2 SP2: Setpoint / FH2: High Limit Point	
105 (0x69)	RP2/FL2	UInt	16 Bit	rw	0...6005	Q2 RP2: Resetpoint / FL2: Low Limit Point	
106 (0x6A)	OU2	UInt	8 Bit	rw	0 = Q2_Hno 1 = Q2_Hnc 2 = Q2_Fno 3 = Q2_Fnc 4 = Q2_Eno 5 = Q2_Enc	Q2 Funktion	

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

3. Servicedaten										
IO-Link spezifisch										
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff	Standard Wert	Wertebereich	Bemerkung [Einheit]			
16 (0x10)	Herstellername	String	64 Byte	ro		Seli GmbH				
18 (0x12)	Produktname	String	64 Byte	ro						
19 (0x13)	Produkt-ID	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	16 Byte	rw	***					
spezifisch										
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff	Standard Wert	Wertebereich	Bemerkung [Einheit]			
64 (0x40)	Gerätespezifische Kennung	String	16 Byte	rw	***					
90 (0x5A)	Teilenummer	String	8 Byte	ro		Teilenummer				
100 (0x64)	SP1/FH1	UInt	16 Bit	rw	0...6005	Q1 SP1: Schaltpunkt / FH1: oberer Fenster- rand				
101 (0x65)	RP1/FL1	UInt	16 Bit	rw	0...6005	Q1 RP1: Rückschalt- punkt / FL1: unterer Fenster- rand				
102 (0x66)	OU1	UInt	8 Bit	rw	0 = Q1_Hno 1 = Q1_Hnc 2 = Q1_Fno 3 = Q1_Fnc 4 = Q1_Eno 5 = Q1_Enc	Q1 Funktion				
103 (0x67)	SimQ1	UInt	8 Bit	rw	0 = Q1Norm 1 = Q1On 2 = Q1Off	Simuliere Q1				
104 (0x68)	SP2/FH2	UInt	16 Bit	rw	0...6005	Q2 SP2: Schaltpunkt / FH2: oberer Fenster- rand				
105 (0x69)	RP2/FL2	UInt	16 Bit	rw	0...6005	Q2 RP2: Rückschalt- punkt / FL2: unterer Fenster- rand				



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

ENGLISH							
device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access	Default Value	Value / Range	Remark [Unit]
107 (0x6B)	TYP2	UInt	8 Bit	rw	0 = Q2_PNP 1 = Q2_NPN 2 = Q2_DRV	Q2 Output Driver	
108 (0x6C)	SimQ2	UInt	8 Bit	rw	0 = Q2Norm 1 = Q2On 2 = Q2Off	Simulate Q2	
109 (0x6D)	SP3/FH3	UInt	16 Bit	rw	0...6005	Q3 SP3: Setpoint / FH3: High Limit Point	
110 (0x6E)	RP3/FL3	UInt	16 Bit	rw	0...6005	Q3 RP3: Resetpoint / FL3: Low Limit Point	
111 (0x6F)	OU3	UInt	8 Bit	rw	0 = Q3_Hno 1 = Q3_Hnc 2 = Q3_Fno 3 = Q3_Fnc 4 = Q3_Eno 5 = Q3_Enc	Q3 Function	
112 (0x70)	TYP3	UInt	8 Bit	rw	0 = Q3_PNP 1 = Q3_NPN 2 = Q3_DRV	Q3 Output Driver	
113 (0x71)	SimQ3	UInt	8 Bit	rw	0 = Q3Norm 1 = Q3On 2 = Q3Off	Simulate Q3	
114 (0x72)	SP4/FH4	UInt	16 Bit	rw	0...6005	Q4 SP4: Setpoint / FH4: High Limit Point	
115 (0x73)	RP4/FL4	UInt	16 Bit	rw	0...6005	Q4 RP4: Resetpoint / FL4: Low Limit Point	
116 (0x74)	OU4	UInt	8 Bit	rw	0 = Q4_Hno 1 = Q4_Hnc 2 = Q4_Fno 3 = Q4_Fnc 4 = Q4_Eno 5 = Q4_Enc	Q4 Function	
117 (0x75)	TYP4	UInt	8 Bit	rw	0 = Q4_PNP 1 = Q4_NPN 2 = Q4_DRV	Q4 Output Driver	
118 (0x76)	SimQ4	UInt	8 Bit	rw	0 = Q4Norm 1 = Q4On 2 = Q4Off	Simulate Q4	
119 (0x77)	QAHIGH	UInt	16 Bit	rw	0...6005	QA High Limit Point	
120 (0x78)	QALOW	UInt	16 Bit	rw	0...6005	QA Low Limit Point	
121 (0x79)	QAPOL	UInt	8 Bit	rw	0 = QA_Nrm 1 = QA_Inv	QA Polarity	
122 (0x7A)	QATYPE	UInt	8 Bit	rw	0 = 4-20mA 1 = 0-10V 2 = Auto 3 = Auto 4-20mA 4 = Auto 0-10V	QA Output Driver	
123 (0x7B)	QAFail	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA	QA Failure State	

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

DEUTSCH							
spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff	Standard Wert	Wertebereich	Bemerkung [Einheit]
106 (0x6A)	OU2	UInt	8 Bit	rw	0 = Q2_Hno 1 = Q2_Hnc 2 = Q2_Fno 3 = Q2_Fnc 4 = Q2_Eno 5 = Q2_Enc	Q2 Funktion	
107 (0x6B)	TYP2	UInt	8 Bit	rw	0 = Q2_PNP 1 = Q2_NPN 2 = Q2_DRV	Q2 Ausgangsstufe	
108 (0x6C)	SimQ2	UInt	8 Bit	rw	0 = Q2Norm 1 = Q2On 2 = Q2Off	Simuliere Q2	
109 (0x6D)	SP3/FH3	UInt	16 Bit	rw	0...6005	Q3 SP3: Schaltpunkt / FH3: oberer Fenster- rand	
110 (0x6E)	RP3/FL3	UInt	16 Bit	rw	0...6005	Q3 RP3: Rückschaltpunkt / FL3: unterer Fenster- rand	
111 (0x6F)	OU3	UInt	8 Bit	rw	0 = Q3_Hno 1 = Q3_Hnc 2 = Q3_Fno 3 = Q3_Fnc 4 = Q3_Eno 5 = Q3_Enc	Q3 Funktion	
112 (0x70)	TYP3	UInt	8 Bit	rw	0 = Q3_PNP 1 = Q3_NPN 2 = Q3_DRV	Q3 Ausgangsstufe	
113 (0x71)	SimQ3	UInt	8 Bit	rw	0 = Q3Norm 1 = Q3On 2 = Q3Off	Simuliere Q3	
114 (0x72)	SP4/FH4	UInt	16 Bit	rw	0...6005	Q4 SP4: Schaltpunkt / FH4: oberer Fenster- rand	
115 (0x73)	RP4/FL4	UInt	16 Bit	rw	0...6005	Q4 RP4: Rückschaltpunkt / FL4: unterer Fenster- rand	
116 (0x74)	OU4	UInt	8 Bit	rw	0 = Q4_Hno 1 = Q4_Hnc 2 = Q4_Fno 3 = Q4_Fnc 4 = Q4_Eno 5 = Q4_Enc	Q4 Funktion	
117 (0x75)	TYP4	UInt	8 Bit	rw	0 = Q4_PNP 1 = Q4_NPN 2 = Q4_DRV	Q4 Ausgangsstufe	
118 (0x76)	SimQ4	UInt	8 Bit	rw	0 = Q4Norm 1 = Q4On 2 = Q4Off	Simuliere Q4	
119 (0x77)	QAHIGH	UInt	16 Bit	rw	0...6005	QA Oberer Signalpunkt	
120 (0x78)	QALOW	UInt	16 Bit	rw	0...6005	QA Unterer Signalpunkt	
121 (0x79)	QAPOL	UInt	8 Bit	rw	0 = QA_Nrm 1 = QA_Inv	QA Polarität	



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ENGLISH							
device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access	Default Value	Value / Range	Remark [Unit]
124 (0x7C)	SimCur	UInt	8 Bit	rw	0 = SimOff 1 = 3.5mA 2 = 3.8mA 3 = 4.0mA 4 = 10.0mA 5 = 12.0mA 6 = 18.0mA 7 = 20.0mA 8 = 20.5mA 9 = 21.5mA	Simulate QA Current	
125 (0x7D)	SimVol	UInt	8 Bit	rw	0 = SimOff 1 = 0.0V 2 = 2.0V 3 = 4.0V 4 = 6.0V 5 = 8.0V 6 = 10.0V 7 = 10.5V	Simulate QA Voltage	
126 (0x7E)	DspVal	UInt	8 Bit	rw	0 = Distan 1 = Qa-Perc 2 = QaBarG 3 = QaSign 4 = QxSign	Display Mode	
127 (0x7F)	Filter	UInt	8 Bit	rw	0 = Off 4 = 400ms 6 = 600ms 10 = 1000ms 14 = 1400ms 20 = 2s 50 = 5s 100 = 10s	Averaging Filter	
128 (0x80)	SimLev	UInt	8 Bit	rw	0 = SimOff 1 = 0 % 2 = 25 % 3 = 50 % 4 = 75 % 5 = 100 %	Simulate Level	
205 (0xCD)	Profile Version	String	4 Byte	ro			
300 (0x12C)	Lock	Bool	1 Bit	rw	false = inactive true = active	Menu Password Protection	
301 (0x12D)	Unit	UInt	8 Bit	rw	0 = mm 1 = inch	Display Level Unit	
302 (0x12E)	Offset	UInt	16 Bit	rw	0	0...3000	Level Offset
303 (0x12F)	Mode	UInt	8 Bit	rw	0 = Pulse 1 = Foam	Algorithm Mode	
304 (0x130)	MeasMd	UInt	8 Bit	rw	0 = mode-1 1 = HiSpd 2 = HiAcc 3 = mode-2	Measuring Mode	
305 (0x131)	MaxCoL	UInt	8 Bit	rw	2 = 2cm/s 5 = 5cm/s 10 = 10cm/s 50 = Any-Speed	Maximum Change of Level	
310 (0x136)	TrsHld	UInt	16 Bit	rw	100	20...500	Threshold for Pulse Detection
311 (0x137)	CalRng	UInt	16 Bit	rw	6005	95...6005	AutCal Range
312 (0x138)	MaskZn	UInt	16 Bit	rw	0	0...6005	Masked Zone Range
313 (0x139)	MaskTr	UInt	16 Bit	rw	50	10...500	Masking Threshold
320 (0x140)	Limit	UInt	8 Bit	rw	90	20...100	Foam Algorithm Detection Limit
330 (0x14A)	Length	UInt	16 Bit	rw	95...6005	Probe Length	
331 (0x14B)	CblLen	UInt	16 Bit	rw	200...350 0	Coaxial Cable Length	

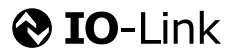
1 ro = read only, wo = write only, rw = read/write / ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben

DEUTSCH							
spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff	Standard Wert	Wertebereich	Bemerkung [Einheit]
122 (0x7A)	QATYPE	UInt	8 Bit	rw	0 = 4-20mA 1 = 0-10V 2 = Auto 3 = Auto 4-20mA 4 = Auto 0-10V	QA Umschaltung Strom/Spannungsausgang	
123 (0x7B)	QAFail	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA	QA Fehlerzustand	
124 (0x7C)	SimCur	UInt	8 Bit	rw	0 = SimOff 1 = 3.5mA 2 = 3.8mA 3 = 4.0mA 4 = 10.0mA 5 = 12.0mA 6 = 18.0mA 7 = 20.0mA 8 = 20.5mA 9 = 21.5mA	Simuliere QA Stromausgang	
125 (0x7D)	SimVol	UInt	8 Bit	rw	0 = SimOff 1 = 0.0V 2 = 2.0V 3 = 4.0V 4 = 6.0V 5 = 8.0V 6 = 10.0V 7 = 10.5V	Simuliere QA Spannungsausgang	
126 (0x7E)	DspVal	UInt	8 Bit	rw	0 = Distan 1 = Qa-Perc 2 = Qa-BarG 3 = QaSign 4 = QxSign	Display Anzeige	
127 (0x7F)	Filter	UInt	8 Bit	rw	0 = Off 4 = 400ms 6 = 600ms 10 = 1000ms 14 = 1400ms 20 = 2s 50 = 5s 100 = 10s	Mittelwertfilter	
128 (0x80)	SimLev	UInt	8 Bit	rw	0 = SimOff 1 = 0 % 2 = 25 % 3 = 50 % 4 = 75 % 5 = 100 %	Simuliere Füllstand	
205 (0xCD)	Profile Version	String	4 Byte	ro			
300 (0x12C)	Lock	Bool	1 Bit	rw	false = inaktiv true = aktiv	Menü Passwortschutz	
301 (0x12D)	Unit	UInt	8 Bit	rw	0 = mm 1 = inch	Display Einheit Füllstand	
302 (0x12E)	Offset	UInt	16 Bit	rw	0	0...3000	Level Offset
303 (0x12F)	Mode	UInt	8 Bit	rw	0 = Pulse 1 = Foam	Algorithmus Modus	
304 (0x130)	MeasMd	UInt	8 Bit	rw	0 = mode-1 1 = HiSpd 2 = HiAcc 3 = mode-2	Messmodus	
305 (0x131)	MaxCoL	UInt	8 Bit	rw	2 = 2cm/s 5 = 5cm/s 10 = 10cm/s 50 = Any-Speed	Maximale Änderungsrate des Füllstands	
310 (0x136)	TrsHld	UInt	16 Bit	rw	100	20...500	Schwelle für Pulserkennung



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

ENGLISH							
device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access	Default Value	Value / Range	Remark [Unit]
331 (0x14B)	CblLen	UInt	16 Bit	rw	200...3500	Coaxial Cable Length	
332 (0x14C)	Type	UInt	8 Bit	rw	0 = Rod 1 = Rope	Probe Type	
342 (0x156)	CalSta	UInt	8 Bit	ro	0 = NoCal 1 = AutCal 2 = FormCal 3 = CalMis	Calibration Status	
350 (0x15E)	SigQa1	UInt	8 Bit	ro		Signal Quality 1	
351 (0x15F)	SigQa2	UInt	8 Bit	ro		Signal Quality 2	
352 (0x160)	SigQa3	UInt	8 Bit	ro		Signal Quality 3	
360 (0x168)	SupplyVoltage	UInt	16 Bit	ro		Sensor Supply Voltage [V]	
361 (0x169)	SensorTemperature	Int	16 Bit	ro		Internal Electronics Temperature [°C]	
362 (0x16A)	PowerUpCounter	UInt	32 Bit	ro		Power Up Counter	
363 (0x16B)	OperatingTime	UInt	32 Bit	ro		Run Time [s]	
364 (0x16C)	SystemMonitor	Record	4 Byte	ro		System Monitor	
1 (0x01)	SystemState	Bit (0)	2 Bit	ro		0 = FAILURE 1 = WARNING 2 = OK	
2 (0x02)	SC-Q2	Bit (2)	1 Bit	ro		true = active false = -	
3 (0x03)	SC-Q3	Bit (3)	1 Bit	ro		true = Active false = -	
4 (0x04)	SC-Q4	Bit (4)	1 Bit	ro		true = Active false = -	
5 (0x05)	SC-Qa	Bit (5)	1 Bit	ro		true = Active false = -	
6 (0x06)	QaOvf	Bit (6)	1 Bit	ro		true = Active false = -	
7 (0x07)	reserved	Bit (7)	1 Bit	ro		true = Active false = -	
8 (0x08)	reserved	Bit (8)	1 Bit	ro		true = Active false = -	
9 (0x09)	InvEc	Bit (9)	1 Bit	ro		true = Active false = -	
10 (0x0A)	Cable	Bit (10)	1 Bit	ro		true = Active false = -	
11 (0x0B)	Range	Bit (11)	1 Bit	ro		true = Active false = -	
12 (0x0C)	MaskZ	Bit (12)	1 Bit	ro		true = Active false = -	
13 (0x0D)	Temp	Bit (13)	1 Bit	ro		true = Active false = -	
14 (0x0E)	reserved	Bit (14)	1 Bit	ro		true = Active false = -	
15 (0x0F)	reserved	Bit (15)	1 Bit	ro		true = Active false = -	
16 (0x10)	reserved	Bit (16)	1 Bit	ro		true = Active false = -	
17 (0x11)	reserved	Bit (17)	1 Bit	ro		true = Active false = -	
18 (0x12)	reserved	Bit (18)	1 Bit	ro		true = Active false = -	
19 (0x13)	reserved	Bit (19)	1 Bit	ro		true = Active false = -	
20 (0x14)	reserved	Bit (20)	1 Bit	ro		true = Active false = -	
365 (0x16D)	MinimumLevel	UInt	16 Bit	ro	0...6005	Minimum Level Since Power Up / Last Reset	
366 (0x16E)	MaximumLevel	UInt	16 Bit	ro	0...6005	Maximum Level Since Power Up / Last Reset	
380 (0x17C)	InputData	Array	32 Byte	rw		Unsigned Integer8 [32]	Input Data
381 (0x17D)	OutputData	Array	32 Byte	ro		Unsigned Integer8 [32]	Output Data
382 (0x17E)	UniqueID	Array	8 Byte	ro		Unsigned Integer8 [8]	Unique Device ID
383 (0x17F)	Reserved	Array	8 Byte	rw		Unsigned Integer8 [8]	Reserved

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

DEUTSCH										
spezifisch										
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff	Standard Wert	Wertebereich	Bemerkung [Einheit]			
311 (0x137)	CalRng	UInt	16 Bit	rw	6005	95...6005	AutCal Einlertiefe			
312 (0x138)	MaskZn	UInt	16 Bit	rw	0	0...6005	Größe der Maskierten Zone			
313 (0x139)	MaskTr	UInt	16 Bit	rw	50	10...500	Schwelle der Maskierten Zone			
320 (0x140)	Limit	UInt	8 Bit	rw	90	20...100	Schaumalgorithmus Erkennungslimit			
330 (0x14A)	Length	UInt	16 Bit	rw	95...6005	Sondentlänge				
331 (0x14B)	CblLen	UInt	16 Bit	rw	200...3500	Koaxialkabellänge				
332 (0x14C)	Type	UInt	8 Bit	rw	0 = Stabsonde 1 = Seilsonde	Sondentyp				
342 (0x156)	CalSta	UInt	8 Bit	ro	0 = NoCal 1 = AutCal 2 = FormCal 3 = CalMis	Kalibrationsstatus				
350 (0x15E)	SigQa1	UInt	8 Bit	ro	Signalqualität 1					
351 (0x15F)	SigQa2	UInt	8 Bit	ro	Signalqualität 2					
352 (0x160)	SigQa3	UInt	8 Bit	ro	Signalqualität 3					
360 (0x168)	Versorgungsspannung	UInt	16 Bit	ro	Versorgungsspannung des Sensors [V]					
361 (0x169)	Elektroniktemperatur	Int	16 Bit	ro	Elektroniktemperatur [°C]					
362 (0x16A)	Einschaltzähler	UInt	32 Bit	ro	Einschaltzähler					
363 (0x16B)	Betriebszeit	UInt	32 Bit	ro	Betriebszeit [s]					
364 (0x16C)	Systemmonitor	Record	4 Byte	ro	Systemmonitor					
1 (0x01)	Systemzustand	Bit (0)	2 Bit	ro		0 = FEHLER 1 = WARNUNG 2 = OK				
2 (0x02)	SC-Q2	Bit (2)	1 Bit	ro		true = aktiv false = -				
3 (0x03)	SC-Q3	Bit (3)	1 Bit	ro		true = aktiv false = -				
4 (0x04)	SC-Q4	Bit (4)	1 Bit	ro		true = aktiv false = -				
5 (0x05)	SC-Qa	Bit (5)	1 Bit	ro		true = aktiv false = -				
6 (0x06)	QaOvf	Bit (6)	1 Bit	ro		true = aktiv false = -				
7 (0x07)	reserviert	Bit (7)	1 Bit	ro		true = aktiv false = -				
8 (0x08)	reserviert	Bit (8)	1 Bit	ro		true = aktiv false = -				
9 (0x09)	InvEc	Bit (9)	1 Bit	ro		true = aktiv false = -				
10 (0x0A)	Cable	Bit (10)	1 Bit	ro		true = aktiv false = -				
11 (0x0B)	Range	Bit (11)	1 Bit	ro		true = aktiv false = -				
12 (0x0C)	MaskZ	Bit (12)	1 Bit	ro		true = aktiv false = -				
13 (0x0D)	Temp	Bit (13)	1 Bit	ro		true = aktiv false = -				
14 (0x0E)	reserviert	Bit (14)	1 Bit	ro		true = aktiv false = -				
15 (0x0F)	reserviert	Bit (15)	1 Bit	ro		true = aktiv false = -				
16 (0x10)	reserviert	Bit (16)	1 Bit	ro		true = aktiv false = -				
17 (0x11)	reserviert	Bit (17)	1 Bit	ro		true = aktiv false = -				
18 (0x12)	reserviert	Bit (18)	1 Bit	ro		true = aktiv false = -				
19 (0x13)	reserviert	Bit (19)	1 Bit	ro		true = aktiv false = -				
20 (0x14)	reserviert	Bit (20)	1 Bit	ro		true = aktiv false = -				
365 (0x16D)	Minimaler Füllstand	UInt	16 Bit	ro	0...6005	Minimaler Füllstand seit letztem Einschalten / letztem Reset				
366 (0x16E)	Maximaler Füllstand	UInt	16 Bit	ro	0...6005	Maximaler Füllstand seit letztem Einschalten / letztem Reset				



TDR-Füllstandsmessgerät
TDR-Fill-Level Sensor

SFP-...

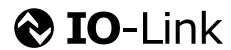
ENGLISH

Standard command					
Index dec (hex)		Access	Value	Name	Remark [Unit]
2 (0x02)	Standard Command	wo	130	Restore Factory Settings	
			165	Pulse_AutCal	
			166	Pulse_AutoTune	
			167	Pulse_Reset	
			170	Foam_CalEmp	
			171	Foam_CalMed	
			172	Foam_Reset	
			180	Reserved0	
			190	Reset_LevelMinMax	
			200	Reserved1	
			201	Reserved2	
			202	Reserved3	
			203	Reserved4	

DEUTSCH

spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff	Standard Wert	Wertebereich	Bemerkung [Einheit]
380 (0x17C)	Eingabedaten	Array	32 Byte	rw	Unsigned Integer8 [32]	Eingabedaten	
381 (0x17D)	Ergebnis	Array	32 Byte	ro	Unsigned Integer8 [32]	Ergebnis	
382 (0x17E)	Eindeutige ID	Array	8 Byte	ro	Unsigned Integer8 [8]	Eindeutige Geräteerkennung	
383 (0x17F)	reserviert	Array	8 Byte	rw	Unsigned Integer8 [8]	reserviert	

Standardkommando					
Index dez (hex)		Zugriff	Wert	Name	Bemerkung [Einheit]
2 (0x02)	Standardkommando	wo	130	Auslieferungszustand wiederherstellen	
			165	Pulse_AutCal	
			166	Pulse_AutoTune	
			167	Pulse_Reset	
			170	Foam_CalEmp	
			171	Foam_CalMed	
			172	Foam_Reset	
			180	Reserviert0	
			190	Reset_LevelMinMax	
			200	Reserviert1	
			201	Reserviert2	
			202	Reserviert3	
			203	Reserviert4	



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