

# LevelTech – FXPL0xx and FXSL0xx

Fill-Level Sensors with IO-Link



**Interface Description**

# LevelTech Sensor

## Vendor ID

Product	hex	dec	hex (Bytes)	dec (Bytes)
wenglor sensoric GmbH	0x0057	87	00 57	0 87

## Device ID

Produkt	hex	dec	hex (Bytes)	dec (Bytes)
FXxL0xx	0x380000	3670016	38 00 00	56 0 0

IO-Link Version:	V1.1
Data Storage:	Yes
Blockparameter:	Yes
MinCycletime:	6,4 ms
SIO-Mode:	Yes
COM-Mode:	COM2
ISDU	Yes
Process data In (Device to Master)	1 Byte
Process data Out (Master to Device)	-

## Process data (Length: 1 Byte)

Subindex	Name	Bit Offset	Length	Range
1	Output A1	0	1 Bit	0 = false/off 1 = true/on
2	Output A2	1	1 Bit	0 = false/off 1 = true/on
3	Quality Bit	2	1 Bit	0 = good output Quality 1 = bad output Quality

## Octet 0

Subindex						3	2	1
Bit Offset	7	6	5	4	3	2	1	0

## Parameter

Name	Index (hex)	Index (dec)	Sub-index	R/W	Length	Data Storage	Dyna-mic	Modify others	Default value	Range
<b>Identification</b>										
Vendor Name	0x0010	16	0	R	String				wenglor sensoric	
Vendor Text	0x0011	17	0	R	String				www.wenglor.com	
Product ID	0x0013	19	0	R	String				Order Number wenglor	
Product Text	0x0014	20	0	R	String				—	
Serial Number	0x0015	21	0	R	String				—	
Hardware Revision	0x0016	22	0	R	String				—	
Firmware Revision	0x0017	23	0	R	String				—	
Application Specific Tag	0x0018	24	0	R/W	String 32 Byte	X			***** *****	
Status / Diagnosis	0x0024	36	1	R	UInt8				—	0 (0x00) = OK 1 (0x01) = Warning Mask 2 (0x02) = Alarm Mask 16 (0x10) = Alarm Signal Quality 32 (0x20) = Alarm short circuit on A1 48 (0x30) = Alarm short circuit on A2 64 (0x40) = Alarm EEPROM write error 80 (0x50) = Alarm ASIC write error 96 (0x60) = Alarm System
<b>Device Settings</b>										
System Command	0x0002	2	0	W	UInt8			X	—	64 (0x40) = Teach press 1 = start Teach press 2 = Measure and store 130 (0x82) = Factory Reset 160 (0xA0) = Teach Air channel 1 161 (0xA1) = Teach Media channel 1 162 (0xA2) = Teach Air Channel 2 163 (0xA3) = Teach Media channel 2
Device Access Locks	0x000C	12	0	R/W	UInt16	X			0x0000	0x0000 = Remote Teach disabled 0x0004 = Remote Teach enabled
<b>A1 Settings</b>										
A1 Switching Point 2	0x3C	60	1	R/W	UInt8	X	X		0	0...100 [%]
A1 Switching Point 1	0x3C	60	2	R/W	UInt8	X	X		75	0...100 [%]
A1 NO/NC	0x3D	61	1	R/W	UInt8	X			0	0 = Normally Open 1 = Normally Closed
A1 PNP/NPN/Push-Pull	0x3D	61	2	R/W	UInt8	X			2	0 = PNP 1 = NPN 2 = Push-Pull 3 = Disabled
A1 Switching Hysteresis	0x3D	61	3	R/W	UInt8	X	X		3	0...50 Hysteresis for A1 [%]
A1 Time delay	0x79	121	2	R/W	UInt8	X			1	0...100 Time delay [0,1 s]

Hardware and firmware revisions can be read out as of firmware version 2.00.23.

<b>A2 Settings</b>										
A2 Switching Point 2	0x3E	62	1	R/W	Uint8	X	X		0	0...100 [%]
A2 Switching Point 1	0x3E	62	2	R/W	Uint8	X	X		75	0...100 [%]
A2 NO/NC	0x3F	63	1	R/W	Uint8	X			1	0 = Normally Open 1 = Normally Closed
A2 PNP/NPN/Push-Pull	0x3F	63	2	R/W	Uint8	X			2	0 = PNP 1 = NPN 2 = Push-Pull 3 = Disabled
A2 Switching Hysteresis	0x3F	63	3	R/W	Uint8	X	X		3	0...50 Hysteresis for A2 [%]
A2 Time delay	0x79	121	12	R/W	Uint8	X			1	0...100 Time delay [0,1s]
<b>Measured Values Settings</b>										
LED Color Status	0x4F	79	3	R	Uint8				3	2 = Red 3 = Green 4 = Blue 7 = Yellow
Measuring Period	0x58	88	2	R	Uint16				5	5...65535 [ms]
Graph Data	0x5A	90	0	R	Uint8					0...255 Graph Data of the Sweep, Part 1 of 2 128 Bytes (Values No 0...127)
Graph Data	0x5B	91	0	R	Uint8					0...255 Graph Data of the Sweep, Part 2 of 2 127 Bytes (Values No 128...225)
3 Point Graph Low Edge	0x5C	92	1	R	Uint8				0	0...255 Low Edge Frequency of the Graph
3 Point Graph High Edge	0x5C	92	2	R	Uint8				0	0...255 High Edge Frequency of the Graph
3 Point Graph Mid Frequency	0x5C	92	3	R	Uint8				0	0...255 Measured Frequency
3 Point Graph Amplitude	0x5C	92	4	R	Uint8				0	0...255 Amplitude of the Graph