

FXxPxxx

Pressure Sensors with IO-Link



Interface Description

Pressure Sensor FXxPxxx

Vendor ID

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

Device ID

Product	hex	dec	hex (Bytes)	dec (Bytes)
FX0P	0x300100	3145984	30 01 00	48 1 0
FX1P	0x300101	3145985	30 01 01	48 1 1
FX2P	0x300102	3145986	30 01 02	48 1 2
FX3P	0x300103	3145987	30 01 03	48 1 3
FX4P	0x300104	3145988	30 01 04	48 1 4
FX5P	0x300105	3145989	30 01 05	48 1 5
FX6P	0x300106	3145990	30 01 06	48 1 6
FX7P	0x300107	3145991	30 01 07	48 1 7
FX8P	0x300108	3145992	30 01 08	48 1 8
FX9P	0x300109	3145993	30 01 09	48 1 9

IO-Link Version	V1.1
Data Storage	Yes
Blockparameter	Yes
Min Cycle Time	3,2 ms
SIO-Mode	Yes
COM-Mode	COM2
ISDU	Yes
Process data In (Device to Master)	32 Bit
Process data Out (Master to Device)	—

Process Data (Length: 32 Bit)

Subindex	Name	Bit Offset	Length	Range
1	Output A1	0	1 Bit	0= Off 1= On
2	Output A2	1	1 Bit	0= Off 1= On
3	Overload	2	1 Bit	0= no Overload 1= Overload
4	Measured Pressure	16...31	16 Bit	Range Start...Range End

Octet 0

Subindex	31	30	29	28	27	26	25	24
Bit Offset	4							

Octet 1

Subindex	23	22	21	20	19	18	17	16
Bit Offset	4							

Octet 2

Subindex	15	14	13	12	11	10	09	08
Bit Offset								

Octet 3

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

Parameter

Name	Index (hex)	Index (dec)	Sub-index	R/W	Length	Data Storage	dyna-mic	modify others	Default value	Range
Identity										
Vendor Name	0x0010	16	0	R	String				wenglor sensoric Gmbh	
Vendor Text	0x0011	17	0	R	String				the innovative family	
Product Name	0x0012	18	0	R	String				FXxP	
Product ID	0x0013	19	0	R	String				—	
Product Text	0x0014	20	0	R	String				Pressure Sensor	
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			***	
Device Settings										
System Command	0x0002	2	0	W	Uint8			X		Factory Reset = 0x82 (130)
Device Access Locks	0x000C	12	0	R/W	Uint16	X			0	0...0x0003: Bit 0: Parameter write access Locked Bit 1: Data Storage locked
Measured Value Settings										
Unit Pressure	0x0112	274	0	R/W	Uint8	X			0	0 = Bar 1 = PSI 2 = Megapascal 3 = Kilopascal
Filter (Pressure)	0xD0	208	0	R/W	Uint8	X			2	0...10
Set Pressure to Zero	0x20A	522	0	W	Uint8					1 = Set Pressure to Zero
A1 Output										
A1, A2 NPN/PNP	0x220	544	0	R/W	Uint8	X			0	0 = PNP 1 = NPN 2 = Push-Pull
A1 NO/NC	0x210	528	0	R/W	Uint8	X			0	0 = normally open 1 = normally closed
A1 Switching Point 1 Pressure	0x273	627	0	R/W	Int16	X			Range End / 2	Range Start...Range End
A1 Switching Point 2 Pressure	0x272	626	0	R/W	Int16	X			Range End / 4	Range Start...Range End
A1 ON Delay	0x50	80	0	R/W	Uint16	X			0	0...60000 [ms]
A1 OFF Delay	0x60	96	0	R/W	Uint16	X			0	0...60000 [ms]
A2 Output										
A2 Pin Function	0x41	65	0	R/W	Uint8	X			3	1 = Switching Output Pressure 3 = Analog Output Pressure 4 = Remote-Switching Output 5 = Remote-Analog Output
A2 Switching Point 1 Pressure	0x283	643	0	R/W	Int16	X			Range End / 2	Range Start...Range End
A2 Switching Point 2 Pressure	0x282	642	0	R/W	Int16	X			Range End / 4	Range Start...Range End
A2 NO/NC	0x211	529	0	R/W	Uint8	X			0	0 = normally open 1 = normally closed
A2 ON Delay	0x51	81	0	R/W	Uint16	X			0	0..60000 [ms]
A2 OFF Delay	0x61	97	0	R/W	Uint16	X			0	0..60000 [ms]
A2 Analog Mode U/I	0x83	131	0	R/W	Uint8	X			1	0 = Voltage Output 1 = Current Output
A2 Analog Pressure 0 V / 4 mA	0x84	132	0	R/W	Int16	X			Range Start	Range Start...Range End
A2 Analog Pressure 10 V / 20 mA	0x85	133	0	R/W	Int16	X			Range End	Range Start...Range End
A2 Remote Switching Output	0x1000	4096	0	R/W	Uint8					0 = open 1 = closed
A2 Remote Analog Output	0x1001	4097	0	R/W	Int16					0...1000

Range

Product	Range Start	Range End	Unit
FX0P	0	4000	0,1 bar
FX1P	-10000	10000	0,1 mbar
FX2P	0	2500	0,1 mbar
FX3P	0	10000	0,1 mbar
FX4P	0	25000	0,1 mbar
FX5P	-1000	10000	1 mbar
FX6P	0	2500	10 mbar
FX7P	0	4000	10 mbar
FX8P	0	10000	10 mbar
FX9P	0	2500	0,1 bar