



Process sensors



Pressure transmitter for hygienic applications with IO-Link and 4...20 mA



Pressure sensors



0.2 % accuracy

Overload-resistant ceramic-capacitive measuring cell with good long-term stability

Factory certificate for download free of charge

Rear hexagonal nut for easy installation in tanks with double walls and blind fittings.

Zero point calibration via teach button or IO-Link



High accuracy

The new PM type pressure transmitter has a total accuracy of 0.2 %. Furthermore, temperature compensation with fast temperature changes (e.g. in CIP/SIP processes) has been improved considerably. The sensor is therefore suitable for all common food applications.

Free factory certificate

For every PM pressure sensor a factory certificate can be downloaded free at www.factory-certificate.ifm. This allows easy access even after the sensor has been bought.

Flexible fitting

ifm offers all common process connections (e.g. welding adapter, Tri Clamp, Varivent, etc.) as accessories for the adapter threads G1 sealing cone and G1 Aseptoflex Vario of the PM pressure sensor.



Factory setting Measuring range [bar]	Measuring range Relative pressure [bar]	Poverload max. [bar]	Order no.
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G1 sealing cone, 4...20 mA, IO-Link

0...100	-1...100	200	PM1602
0...25	-1...25	100	PM1603
0...16	-1...16	75	PM1614
0...10	-1...10	50	PM1604
0...6	-1...6	30	PM1615
0...4	-1...4	30	PM1605
0...2.5	-0.125...2.5	20	PM1606
0...1.6	-0.1...1.6	15	PM1617
0...1	-0.05...1	10	PM1607
-1...1	-1...1	10	PM1609
0...0.25	-0.0125...0.25	10	PM1608
0...0.1	-0.005...0.1	4	PM1689

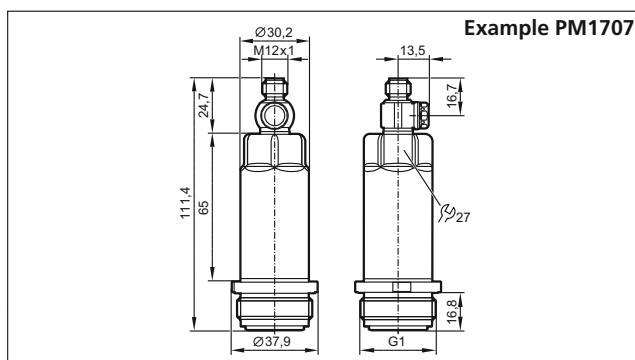
Aseptoflex Vario, 4...20 mA, IO-Link

0...25	-1...25	100	PM1703
0...16	-1...16	75	PM1714
0...10	-1...10	50	PM1704
0...6	-1...6	30	PM1715
0...4	-1...4	30	PM1705
0...2.5	-0.125...2.5	20	PM1706
0...1.6	-0.1...1.6	15	PM1717
0...1	-0.05...1	10	PM1707
-1...1	-1...1	10	PM1709
0...0.25	-0.0125...0.25	10	PM1708
0...0.1	-0.005...0.1	4	PM1789

Connection technology

Type	Description	Order no.
	Socket, M12, 4-pole 5 m, grey, MPPE cable	EVF001
	Socket, M12, 4-pole 10 m, grey, MPPE cable	EVF002
	Socket, M12, 4-pole 5 m, grey, MPPE cable	EVF004
	Socket, M12, 4-pole 10 m, grey, MPPE cable	EVF005

Dimensions



Common technical data

Operating voltage	[V DC]	18...30
Reverse polarity protection		•
Step response time	[ms]	30 (2L) / 7 (3L)
Analogue output		
Accuracy / deviation (in % of the span)		PM1x89 PM1602
Deviation of the characteristics (to DIN EN 61298-2) incl. non-linearity for limit value setting (LS), hysteresis, non-repeatability	< ± 0.2	< ± 0.5 < ± 0.5
Repeatability	< ± 0.1	< ± 0.1 < ± 0.1
Long-term stability	< ± 0.1	< ± 0.1 < ± 0.1
Temperature coefficient (TEMPCO) in the temperature range 0...70 °C (in % of the span per 10 K)		
TEMPCO of zero	< ± 0.05	< ± 0.1 < ± 0.2
TEMPCO of the span	< ± 0.15	< ± 0.2 < ± 0.2
Medium temperature	[°C]	-25...125 (150 max. 1h)
Protection		IP 67 / IP 68 / IP 69K
Materials in contact with the medium		Ceramics 99.9 %, PTFE, stainless steel (1.4435 / 316L)
Communication interface		IO-Link 1.1 COM2 slave; 38.4 kbaud

Accessories

Type	Description	Order no.
	Teach button, stainless steel (1.4404 / 316L); PA; FFKM; PBT	E30425
	Aseptoflex Vario adapter Clamp 1-1.5" with O-ring, ISO 2852, stainless steel (1.4435 / 316L)	E33201
	Welding adapter Ø 60 mm with O-ring, stainless steel (1.4435 / 316L)	E30150
	LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators	QA0011
	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 kBit/s)	E30390

We reserve the right to make technical alterations without prior notice. · 04/2018

ifm - close to you!

For further technical details please visit: www.ifm.com