product news

ifm electronic

Fluid sensors and diagnostic systems

2-wire pressure sensor with display, parameter setting via IO-Link.

Flush design for hygienic applications.

- **Process connection G1 Aseptoflex Vario or G1 conical.**
- **Programmable analogue output in 2-wire operation.**
- **Additional switching output in 3/4-wire operation.**
- **High overall accuracy (0.2 %) and electronic temperature compensation.**
- **High temperature resistance, therefore suitable for SIP and CIP processes.**

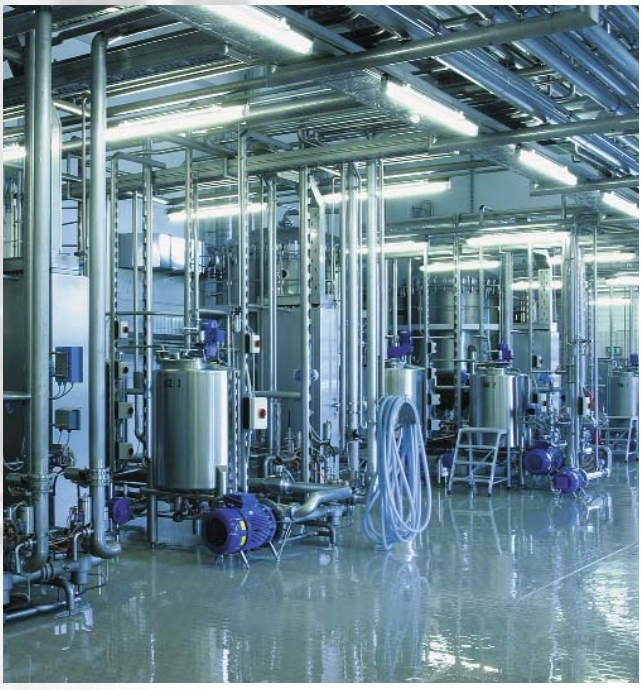
CIP/SIP · EHEDG certified · IP 67 IP 68 IP 69 K · FDA

Flexible: 2, 3 or 4 wires

The pressure sensors of the PI27/PI28 series with clearly visible LED display can not only be connected as 3- or 4-wire units but also as 2-wire units in a current loop. This reduces the wiring complexity in new installations and facilitates exchange in existing 2-wire connections.

Flush and hygienic

The full-metal version of the PI pressure sensor is now also available with conical G1 process connection in addition to the Aseptoflex Vario connection available so far. It is also possible to use it for flush installation when using an adapter. It can also be used for hygienic applications. This makes it easier to exchange units in existing installations.



Pressure monitoring in hygienic areas.

fluid sensors and diagnostic systems · position sensors and object recognition · bus, identification and control systems

Flush pressure sensors with Aseptoflex Vario G1 process connection.

Measuring range Relative pressure [bar]	$P_{overload}$ max. [bar]	Analogue start point [bar]	Analogue end point [bar]	Set point SP1 [bar]	Reset point rP1 [bar]	Step increment [bar]	Order no.
Output function switching output PNP/NPN programmable + analogue output programmable							
-1...25	100	-1.00...18.74	5.24...25.00	-0.96...25.00	-1.00...24.96	0.02	**PI2793**
-1...10	50	-1.0...7.5	1.5...10.00	-0.98...10.00	-1.00...9.98	0.01	**PI2794**
-1...4	30	-1.00...3.00	0.00...4.00	-0.990...4.000	-1.000...3.990	0.005	**PI2795**
-0.124...2.5	20	-0.124...1.880	0.500...2.500	-0.120...2.500	-0.124...2.496	0.002	**PI2796**
-0.05...1	10	-0.05...0.75	0.2...1.00	-0.048...1.00	-0.05...0.998	0.001	**PI2797**
-0.0124...0.25	10	-0.0124...0.1874	0.05...0.25	-0.012...0.25	-0.0124...0.2496	0.0002	**PI2798**
-1...1	10	-1...0.5	-0.5...1	-0.998...1	-1...0.998	0.001	**PI2799**
-0.005...0.1	4	-0.005...0.075	0.02...0.1	-0.0048...0.1	-0.005...0.098	0.0001	**PI2789**

Front flush pressure sensors with G1 process connection

Output function switching output PNP/NPN programmable + analogue output programmable							
-1...25	100	-1.00...18.74	5.24...25.00	-0.96...25.00	-1.00...24.96	0.02	**PI2893**
-1...10	50	-1.0...7.5	1.5...10.00	-0.98...10.00	-1.00...9.98	0.01	**PI2894**
-1...4	30	-1.00...3.00	0.00...4.00	-0.990...4.000	-1.000...3.990	0.005	**PI2895**
-0.124...2.5	20	-0.124...1.880	0.500...2.500	-0.120...2.500	-0.124...2.496	0.002	**PI2896**
-0.05...1	10	-0.05...0.75	0.2...1.00	-0.048...1.00	-0.05...0.998	0.001	**PI2897**
-0.0124...0.25	10	-0.0124...0.1874	0.05...0.25	-0.012...0.25	-0.0124...0.2496	0.0002	**PI2898**
-1...1	10	-1...0.5	-0.5...1	-0.998...1	-1...0.998	0.001	**PI2899**
-0.005...0.1	4	-0.005...0.075	0.02...0.1	-0.0048...0.1	-0.005...0.098	0.0001	**PI2889**

Accessories

Type	Description	Order no.
	G1 adapter for Clamp 1-1.5"	**E33601**
	G1 adapter for DIN11851 DN40 (1.5")	**E33612**
	Aseptoflex Vario adapter Clamp 1-1.5" for PEEK / O-ring	**E33201**
	Aseptoflex Vario adapter Clamp 1-1.5" Metal-to-metal seal	**E33701**
	Aseptoflex Vario adapter Clamp 2" for PEEK / O-ring	**E33202**
	Aseptoflex Vario adapter Clamp 2" Metal-to-metal seal	**E33702**
	FKM (Viton) sealing ring for Aseptoflex Vario adapter	**E30123**
	PEEK sealing ring for Aseptoflex Vario adapter	**E30124**

Connectors and splitter boxes

	Socket, M12, 4-pole 5 m orange, PVC cable	**EVT004**
	Socket, M12, 4-pole 10 m orange, PVC cable	**EVT005**

Common technical data

Type of pressure: relative pressure Liquids and gases			
Operating voltage	[V DC]	20...32 (2W), 18...32 (3W)	
Current rating	[mA]	250	
Current consumption	[mA]	3.6...21 (2W) / < 45 (3W)	
IO-Link Device type of transmission		COM2 (38.4 kbaud)	
Accuracy / deviation (in % of the span) turn down 1:1		PI2x9x	PI2x89
Deviation of the switch point		< ± 0.2	< ± 0.5
Deviation of the characteristics		< ± 0.2	< ± 0.5
Linearity		< ± 0.15	< ± 0.25
Hysteresis		< ± 0.15	< ± 0.2
Repeatability		< ± 0.1	< ± 0.1
Long-term stability		< ± 0.1	< ± 0.1
Temperature coefficients (TEMPCO) in the temperature range 0...70 °C (in % of the span per 10 K)			
Greatest TEMPCO of zero		< ± 0.05	< ± 0.1
Greatest TEMPCO of the span		< ± 0.15	< ± 0.2
Power-on delay time	[s]	1 (2W) / 0.5 (3W)	
Response time switching output	[ms]	3	
Medium temperature	[°C]	-25...125 (145 max. 1 h)	
Protection		IP 67 / IP 68 / IP 69K	
Materials (wetted parts)		high-grade stainless steel 316L (1.4435); ceramics (99.9 % Al_2O_3); PTFE	