



Full-metal pressure sensors for hygienic applications.



Now with enhanced sealing system.

- High overall accuracy (0.2 %) and electronic temperature compensation.
- Programmable analogue and switching output.
- Hygienic, flush design with high-purity ceramic measuring cell.
- Aseptoflex Vario – new G 1 process connection with 4 sealing options.
- High temperature resistance, therefore suitable for SIP and CIP processes.



Special stress – special materials

The new pressure sensors of the PI27 series have a high-grade stainless steel housing (316S12). The housing design is, in particular, distinguished by its resistance to cleaning agents used in the food and pharma industries whose effectiveness is constantly increasing. Lasered, captive type labels are natural for these sensors.

The excellent features and characteristics of the former PI sensors are also provided by the new series: high protection IP 69K, hygienic design, high temperature resistance, high-purity ceramic measuring cell, high-quality materials (wetted parts) and last but not least intuitive operation.



fluid sensors and diagnostic systems

position sensors and object recognition

bus, identification and control systems



Flush pressure sensors with G 1 process connection.

Measuring range Relative pressure [bar]	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 PNP/NPN $\overline{0}/1$ 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	-0.99...4.00	-1.00...3.99	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

Aseptoflex Vario – the new connection with 4 sealing options.

The advantage of the flexible Aseptoflex adaptation with metal-on-metal sealing was kept and complemented with a maintenance-free PEEK sealing. If you, however, prefer sealing by means of an O-ring, you can use the same adapter. In this case, the flexible disk spring ensures reliable. The sealing between the housing and the process connection ensures that the sensor can also be screwed into the standard G 1 A thread sleeves using the common sealing technology.

Various process adapters (clamp, DIN11851 pipe fitting, etc.) are available as accessories.

Accessories

Type	Description	Order no.
	Aseptoflex Vario adapter on clamp 1-1.5" with PEEK / elastomeric O-ring	E33201
	Aseptoflex Vario adapter on clamp 1-1.5" with metal-on-metal sealing	E33701
	Aseptoflex Vario adapter on clamp 2" with PEEK / elastomeric O-ring	E33202
	Aseptoflex Vario adapter on clamp 2" with metal-on-metal sealing	E33702
	Aseptoflex Vario adapter to DIN 11851 DN40 (1.5") with PEEK/elastomeric O-ring	E33212
	Aseptoflex Vario adapter to DIN 11851 DN40 (1.5") with metal-on-metal sealing	E33712
	Aseptoflex Vario welding adapter	E30122
	FKM (Viton) sealing ring for Aseptoflex Vario	E30123
	PEEK sealing ring for Aseptoflex Vario	E30124

Common technical data

Type of pressure: relative pressure Liquids and gases		
Operating voltage	[V DC]	18...32
Current rating	[mA]	250
Short-circuit protection, pulsed		•
Reverse polarity / overload protection		• / •
Integrated watchdog		•
Current consumption	[mA]	< 50
Programming options		Hysteresis / window, NO / NC, output logic, current output, damping, calibration of displayed values, display can be rotated / deactivated, scalable, display unit
Accuracy / deviation (in % of the span) turn down 1:1		IP279x IP2789
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]	0.5
Response time switching output	[s]	0.1
Medium temperature	[°C]	-25...125 (145 max. 1 h)
Protection		IP 67 / IP 68 / IP 69K
Housing materials		stainless steel (316S16), PTFE, ULTEM, FPM (Viton), PFA, PBT (Pocan)
Materials (wetted parts)		high-grade stainless steel 316L (1.4435); ceramics (99.9 % Al2O3); PTFE

ifm article no. 7511327 · Printed in Germany on non-chlorine paper · We reserve the right to make technical alterations without prior notice. · 04.2009