



The first fully electronic contact manometer...



...now also with G 1/2 manometer connection and additional measuring ranges.

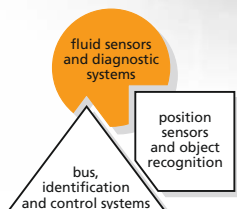
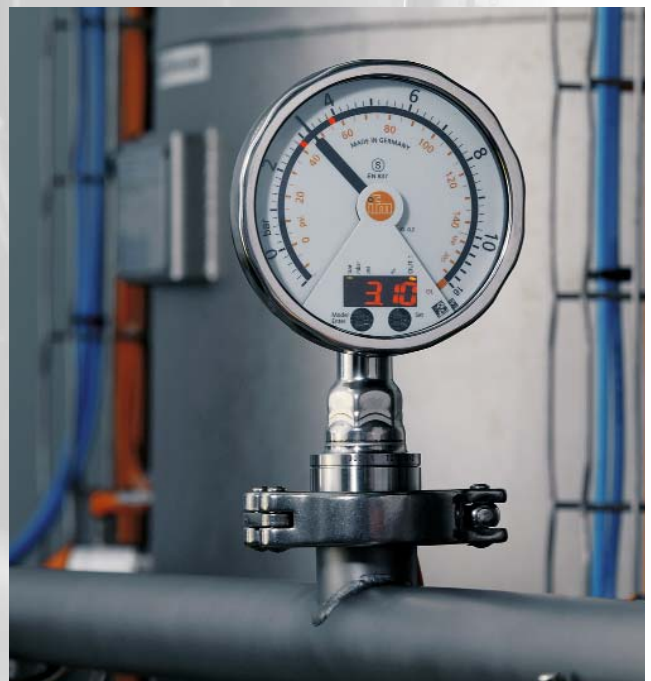
- Optimum readability and electronic pointer display mean reliable operation.
- Rotatable display with LED bargraph for switch point indication.
- Output functions programmable via LED display and optical touch fields.
- G 1/2 manometer connection or flush G1 process connection.
- Additional pressure ranges: 100 bar and 250 bar (400 bar in preparation).

Analogue output	NO/NC programmable	IP 67 IP 69 K	Vibration and shock resistant
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Electronic "contact manometer" PG

In many industrial areas mechanical contact manometers are often used because of their highly visible display. The electronic "contact manometer" of the series PG combines the high visibility of a manometer display with the advantages of an electronic pressure sensor, for example the programmable switching and analogue output (scalable), the high overload protection as well as the integrated temperature compensation.

The LED bargraph shows set and reset points, trends and the limits of dynamic pressure fluctuations, if any. The pointer is controlled via a stepping motor as it has been tried and tested many times in cars (tachometer). When disconnected, the pointer is not visible.





Manometer with G 1/2 process connection

Measuring range Relative pressure [bar]	Extended display range [bar]	P _{overload} max. [bar]	Analogue start point [bar]	Analogue end point [bar]	Set point SP1 [bar]	Reset point rP1 [bar]	Order no.
Output function PNP/NPN \overline{L} / \overline{N} / \overline{P} programmable + analogue output programmable							
0...250	400	600	0.0...350.0	50.0...400.0	1.0...400.0	0.0...399.0	PG2451
0...100	160	300	0.0...135.0	25.0...160.0	0.4...160.0	0.0...159.6	PG2452
-1...25	40	100	-1.00...33.75	5.25...40.00	-0.90...40.00	-1.00...39.90	PG2453
-1...10	16	50	-1.00...13.50	1.50...16.00	-0.96...16.00	-1.00...15.96	PG2454
-0.125...2.5	4	20	-0.125...3.350	0.525...4.000	-0.115...4.000	-0.125...3.990	PG2456
-0.05...1	1.6	10	-0.050...1.340	0.200...1.600	-0.046...1.600	-0.050...1.596	PG2457
-0.0125...0.25	0.4	10	-0.0125...0.3375	0.05...0.4	-0.0115...0.4	-0.0125...0.399	PG2458
-0.005...0.1	0.16	4	-0.005...0.135	0.02...0.16	-0.0046...0.16	-0.005...0.1596	PG2489

Flush manometer with G1 Aseptoflex Vario process connection

Measuring range Relative pressure [bar]	Extended display range [bar]	P _{overload} max. [bar]	Analogue start point [bar]	Analogue end point [bar]	Set point SP1 [bar]	Reset point rP1 [bar]	Order no.
Output function PNP/NPN \overline{L} / \overline{N} / \overline{P} programmable + analogue output programmable							
-1...25	40	100	-1.00...33.76	5.24...40.00	-0.96...40.00	-1.00...39.96	PG2793
-1...10	16	50	-1.0...13.50	1.5...16.00	-0.98...16.00	-1.00...15.98	PG2794
-1...4	6.4	30	-1.00...5.40	0.00...6.40	-0.99...6.40	-1.00...6.39	PG2795
-0.124...2.5	4	20	-0.124...3.370	0.500...4.000	-0.120...4.000	-0.124...3.996	PG2796
-0.05...1	1.6	10	-0.05...1.35	0.2...1.60	-0.048...1.60	-0.05...1.598	PG2797
-0.0124...0.25	0.4	10	-0.0124...0.3376	0.05...0.40	-0.012...0.40	-0.0124...0.3996	PG2798
-1...1	1.6	10	-1...1.1	-0.5...1.6	-0.998...1.6	-1...1.598	PG2799
-0.005...0.1	0.16	4	-0.005...0.135	0.02...0.16	-0.0048...0.16	-0.005...0.1598	PG2789

Programming options: hysteresis / window, NO / NC, switching logic, current output, damping, adaptation of displayed values, PG27xx, PG24xx display unit, 2-point calibration

The electronic "contact manometer" offers the following advantages:

- 3 units in one: analogue display, transmitter and switch – without using relays or switching amplifiers.
- Higher accuracy by electronic processing of measured values
- Parameterisable functions (switch points, NC / NO, hysteresis etc.) facilitate the selection of units and reduce the variety of types
- Easy specification of the right "manometer"
- Rotatable display
- High-quality ceramic measuring cell with improved process adapter
- Excellent overload protection
- Excellent vibration and shock resistance (no filling for vibration absorber or pressure transfer necessary)
- Burst-resistant viewing glass
- Wear-free, even in case of dynamic load changes
- Low weight (no mechanics)

Common technical data

Type of pressure: relative pressure Liquids and gases		
Operating voltage	[V DC]	18...32
Current rating	[mA]	250
Current consumption	[mA]	< 70 (24 V)
Accuracy / deviation (in % of the span) turn down 1:1		
	PG27xx	PG24xx
	< ± 0.2	< ± 0.5
Deviation of the switch point*		< ± 0.5
Deviation of the characteristics*		< ± 0.5
Medium temperature	[°C]	PG27xx: -25...125 PG24xx: -25...80 (145 max. 1 h)
Housing materials		high-grade stainless steel 316L/1.4404; PTFE, FPM (Viton), PA, laminated safety glass
Materials (wetted parts)		PG27xx: high-grade stainless steel 316L/1.4435, PTFE, ceramics (99.9 % Al ₂ O ₃) PG24xx: high-grade stainless steel 316L/1.4404, FPM, ceramics (Al ₂ O ₃)

* for PG2789: < ± 0.5 %
for PG2451, PG2489: < ± 0.6 %

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