



# The first fully electronic contact manometer...



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

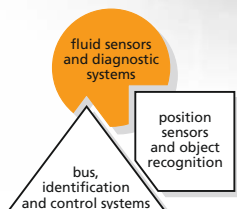
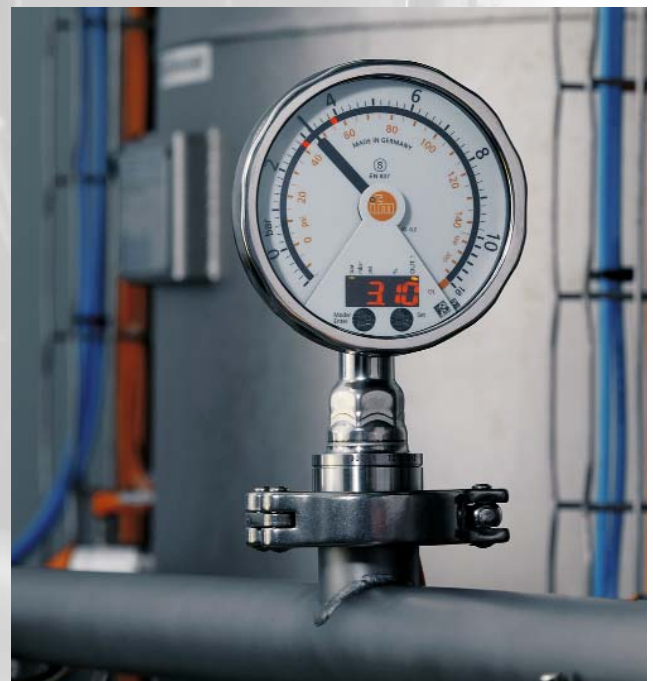
- Optimum readability and electronic pointer display mean reliable operation.
- Rotatable display with LED bargraph for switch point indication.
- Output functions programmable via LED display and optical touch fields.
- G 1/2 manometer connection or flush G1 process connection.
- Additional pressure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

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 is 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 <sub>overload</sub> max. [bar]	Analogue start point [bar]	Analogue end point [bar]	Set point SP1 [bar]	Reset point rP1 [bar]	Order no.
<b>Output function PNP/NPN  programmable + analogue output programmable</b>							
0...400	600	800	0.0...500.0	100.0...600.0	2.0...600.0	0.0...598.0	<b>PG2450</b>
0...250	400	600	0.0...350.0	50.0...400.0	1.0...400.0	0.0...399.0	<b>PG2451</b>
0...100	160	300	0.0...135.0	25.0...160.0	0.4...160.0	0.0...159.6	<b>PG2452</b>
-1...25	40	100	-1.00...33.75	5.25...40.00	-0.90...40.00	-1.00...39.90	<b>PG2453</b>
-1...10	16	50	-1.00...13.50	1.50...16.00	-0.96...16.00	-1.00...15.96	<b>PG2454</b>
-1...4	6.4	30	-1.00...5.40	0.00...6.40	-0.98...6.40	-1.00...6.38	<b>PG2455</b>
-0.125...2.5	4	20	-0.125...3.350	0.525...4.000	-0.115...4.000	-0.125...3.990	<b>PG2456</b>
-0.05...1	1.6	10	-0.050...1.340	0.200...1.600	-0.046...1.600	-0.050...1.596	<b>PG2457</b>
-0.0125...0.25	0.4	10	-0.0125...0.3375	0.05...0.4	-0.0115...0.4	-0.0125...0.399	<b>PG2458</b>
-0.005...0.1	0.16	4	-0.005...0.135	0.02...0.16	-0.0046...0.16	-0.005...0.1596	<b>PG2489</b>
-1...1	1.6	10	-1.0...1.1	-0.5...1.6	-0.992...1.6	-1...1.592	<b>PG2409</b>

**Flush manometer with G1 Aseptoflex Vario process connection**

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

**Programming options:** hysteresis / window, NO / NC, switching logic, current output, damping, adaptation of displayed values, 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)
<b>Accuracy / deviation (in % of the span) turn down 1:1</b>		
Deviation of the switch point*		
Deviation of the characteristics*		
Medium temperature	[°C]	
Housing materials		
Materials (wetted parts)		

\* for PG2789: < ± 0.5 % / for PG2450, PG2451, PG2489: < ± 0.6 %

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