

18.601 G

OEM Pressure Transmitter Low Pressure

Applications

- ▶ general industrial applications

Characteristics

- ▶ piezoresistive stainless steel sensor
- ▶ accuracy 0.5 % FSO according to IEC 60770
- ▶ nominal pressure ranges from 0 ... 100 mbar up to 0 ... 6 bar



Technical Data



Input pressure range													
Nominal pressure gauge	[bar]	0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6		
Overpressure	[bar]	1	1	1	1	3	3	6	10	10	21		
Burst pressure ≥	[bar]	1.5	1.5	1.5	1.5	5	5	10	17.5	17.5	35		
Vacuum resistance		unlimited											
Output signal / Supply													
Standard		2-wire:		4 ... 20 mA		/		V _S = 8 ... 32 V _{DC}					
Options 3-wire		3-wire:		0 ... 10 V		/		V _S = 14 ... 30 V _{DC}					
		3-wire ratiometric:		10 ... 90 % of V _S		/		V _S = 2.7 ... 5 V _{DC}					
Performance													
Accuracy ¹		P _N > 160 mbar: ≤ ± 0.5 % FSO P _N ≤ 160 mbar: ≤ ± 1 % FSO											
Permissible load		2-wire: R _{max} = [(V _S - V _{S min}) / 0.02 A] Ω 3-wire: R _{min} = 10 kΩ											
Influence effects		supply: 0.05 % FSO / 10 V load: 0.05 % FSO / kΩ											
Response time		2-wire: ≤ 10 msec				3-wire: ≤ 3 msec							
Long term stability		≤ ± 0.2 % FSO / year at reference conditions											
Measuring rate		1 kHz											
¹ accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)													
Thermal effects (offset and span) / Permissible temperatures													
Thermal error		≤ ± 0.3 % FSO / 10 K		in compensated range 0 ... 70 °C									
Permissible temperatures		medium: -25 ... 125 °C				electronics / environment: -25 ... 85 °C				storage: -40 ... 85 °C			
Electrical protection													
Short-circuit protection		permanent				3-wire ratiometric: none							
Reverse polarity protection		no damage, but also no function											
Electromagnetic compatibility		emission and immunity according to EN 61326											
Mechanical stability													
Vibration		10 g, 25 Hz ... 2 kHz				according to DIN EN 60068-2-6							
Shock		100 g / 1 msec				according to DIN EN 60068-2-27							

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The manufacturer provides the EU declaration of conformity.

Calibration - All production undergoes output control, which is performed by comparison with standards. The traceability of standards and working gauges is ensured in accordance with Act No. 505/1990, as amended, on metrology.

The manufacturer offers the possibility to supply sensors calibrated in the calibration laboratory of BD SENSORS, accredited according to ČSN EN ISO / IEC 17025: 2018.

0,...without additional charge; On request... in accordance with the producer

1 - cable without through capillary (permissible temperature -5 ... +70°C)

Surcharges for calibration are not subject to any discounts. Subject to change.

This document contains the specification for ordering the product; .

detailed technical parameters of the product and its possible variants are given in the data sheet.

BD SENSORS reserves the right to change sensor specifications without further notice.



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The company BD SENSORS s.r.o. is certified by TÜV SÜD Czech according to the standard ISO 9001.

