

Low-cost Pressure Transmitter PSQ

- ◆ For low-cost applications
- ◆ Compact design
- ◆ For gauge pressure
- ◆ Ranges from 0 to 500 bar
- ◆ Up to 1.0% accuracy
- ◆ All stainless steel design
- ◆ Various process connections



PSQ is a low-cost gauge pressure transducer manufactured by COMECO. It is based on thin-film resistive sensor elements and an electronic block providing temperature compensation and generating a 2-wire current output signal. When operating at process temperatures between 10 °C and 40 °C, the transmitter achieves an accuracy better than 1%. All the wetted parts are made of stainless steel and the robust design guarantees good vibration and shock resistance as well as normal operation at medium temperatures up to 135 °C. All of the above make the PSQ pressure transmitter well suitable in all applications where robustness, compact sizes, and low budget are of higher importance.

Technical specifications

Model	PSQ
Specifications	
Ranges to EN [bar]	0...2.5/ 4/ 6/ 10/ 16/ 25/ 40/ 60/ 100/ 250/ 400/ 600 or other on request (0...max. 500 bar)
Accuracy	10...40 °C: 1.0%; 0...80 °C: 2.0%; -40...135 °C: 4.0%
Response time	≤ 10 ms (0...99% of span)
Pressure sensor type	thin-film resistance bridge
Overload	overload range: 1.5x full span
Wetted parts	stainless steel 1Cr18Ni9Ti
Housing	stainless steel or brass ⁽¹⁾
Process connection	G1/4", M12x1.25, 3/8"-24 UNF, 7/16"-20 UNF
Electrical connection	4-pin detachable mini connector DIN 43650 C
Output	2-wire 4...20 mA
Power supply	12...28 VDC
Medium temperature	-40...135 °C
EM compatibility	EN50081-1, EN50081-2, EN50082-2
Electrical insulation	≥ 10 MΩ at 250 VAC
Vibration / Shock	vibrations: 5...2000 Hz, 10 G, x/y/z; shocks: 20 G, 11 ms
Weight	50 g

⁽¹⁾ Ask for availability!

Ordering code PSQ - G3.G9

Code	Feature or option	Code values
G3	Input range	RANGE (see table above)
G9	Process connection	Q2 - M20x1.5 ⁽²⁾ , Q4 - G1/2" ⁽²⁾ , Q10 - 1/2" NPT ⁽²⁾ , Q23 - G1/4", Q24 - 1/4" NPT ⁽²⁾ , Q32 - M12x1.25, Q35 - 7/16"-20 UNF, Q36 - 3/8"-24 UNF, Z - other (specify!) ⁽²⁾

⁽²⁾ Requires mounting adapter type YD, which is ordered separately (see 'Accessories').