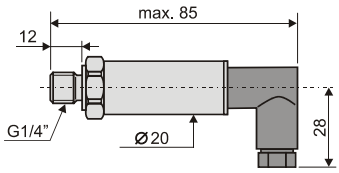
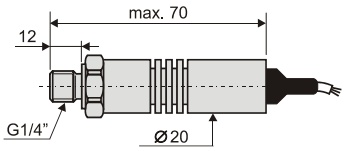
Standard Industrial Pressure Transmitters PSP

- **LOW-COST**
- **Compact design**
- **Positive and negative Gauge and Absolute pressure**
- **Accuracy - up to 0.25%**
- **Ranges from -1 to 2000 Bar**
- **High-temperature versions**

The **PSP** industrial pressure transmitters manufactured by COMECO contain a thin-film sensor element and an electronic circuit. Calibration takes place electronically, so that the pressure transmitters display a comparably small total error and are stable in the long term. The hermetically welded measuring cell ensures a high degree of long term resistance to leakage and stability. The electronic block contains a programmable precision CMOS IC with EEPROM data storage and analogue signal path, which is suitable for extended operating temperature range. The special steel membrane is completely vacuum-tight, extremely burst-proof and can be used with all standard media in hydraulics, pneumatics, environmental technology, process technology and automotive engineering, in as far as they are compatible with special steel. This thereby covers use in standard applications in mobile hydraulics and in other areas of application. The great exactness and the robust, compact structure guarantee a broad range of possible uses in industry as well as for high-temperature applications. On the basis of the combinability of different mechanical and electronic connections, a variety of different pressure transmitters is offered.

PS

Technical specifications

MODEL	Standard		High-temperature		
	PSPR	PSPA	PSPH		
Specifications					
Pressure	Positive and/or negative gauge	Absolute	Positive gauge		
Ranges to EN [Bar]	-1 to 0/1 Bar 0 to 0.6/1.6/4/6/10/16/25/40/60/100 Bar 0 to 160/250/400/600/1000/1600/2000 Bar	0 to 0.6/1.6/4/6/10/16/25/40/60/100 Bar 0 to 160/250/400/600/1000/1600/2000 Bar	0 to 1.6/4/6/10/16/25/40/60/100 Bar 0 to 160/250/400/600/1000/1600/2000 Bar		
Accuracy	0.5% (0.25%)		0.5% (0.25%)		
Repeatability error	≤ 0.1%		≤ 0.1%		
Temperature drift	≤ 0.1% (-20 to +85 °C)		≤ 0.1% (-20 to +85 °C)		
Pressure sensor type	Poly-Si- on SiO2 thin-film resistances		Poly-Si- on SiO2 thin-film resistances		
Overload	Overload range 1.5x; Bursting pressure - 3x		Overload range 1.5x; Bursting pressure - 3x		
Membrane material	Special stainless steel		Special stainless steel		
Case	Stainless steel CrNiCuNb 17-4 PH (IP65)		Stainless steel CrNiCuNb 17-4 PH (IP65)		
Pressure connection	G1/4", 1/4"NPT, G1/2", 1/2"NPT		G1/4", 1/4"NPT, G1/2", 1/2"NPT		
Electrical connection	Connector DIN 43650 C		Silicone or Teflon cable		
Output	**4...20 mA** (2-wire), 0...10 V		4...20 mA	0...10 V	0.5...4.5 V
Power supply	10…30 VDC (12… 30 VDC - for 0…10 V output)		10…30 VDC	12…30 VDC	
Ambient temperature	-40…+105 °C		-40…+105 °C	-40…+115 °C	-40…+145 °C
Medium temperature	-40 to +125 °C		-40 to +180 °C		
Weight	50 g		160 g		

Ordering code ➔ PSP✶ - G3.G8.G9.G11 - #1

Code	Feature or option	Code values
✶	Model	R - standard gauge, A - standard absolute, H - high-temperature gauge
G3	Input range [1]	RANGE - according to the specification table
G8	Cable length [2] (specify)	1SL…10SL - 1…10m silicone cable, 1TF…10TF - 1…10m Teflon cable (1m standard)
G9	Pressure connection [1]	Q23 - G1/4", Q24 - NPT1/4", Q4 - G1/2", Q10 - NPT1/2", Z - other (specify) [3]
G11	Output signal [1]	F - 4…20 mA, K - 0...10 V, N - 0.5...4.5 V
#1	Option "High accuracy"	X - none (0.5% accuracy), HA - 0.25% accuracy

[1] Applicable for the selected model!
[2] Only for PSPH model!
[3] Contact COMECO for availability!