

## Precise Pressure Transmitters PS

- ◆ High accuracy - up to 0.05%
- ◆ Positive and negative Gauge and Absolute pressure
- ◆ Ranges from 250 mBar up to 1000 Bar
- ◆ Front flush diaphragm models
- ◆ Corrosion resistant design
- ◆ RS232 optional output

The PS precise pressure transmitters offered by COMECO Ltd. are produced by IMT-Germany or are OEM products assembled by COMECO using modules of IMT. The transmitters are based on Piezoresistive and Thin film sensitive elements. The range includes pressure sensors for absolute pressure, positive and negative gauge pressure and very low pressures [mBar] transmitters. The precisel PS series includes models in the range from 250 mBar to 1000 Bar providing 0-20 mA or 4-20 mA 3-wire current and voltage output as well as RS232 optional interface. With a standard 0.1% and optional 0.05% accuracy, these sensors are practically suitable for use in testing or calibrating systems. The program-controlled temperature compensation practically eliminates temperature drift errors in the range of +10 to +40 °C. Their long-term stability, good corrosion resistance, high protection (IP 67) and mechanical load rating also make the PS precise pressure transmitters suitable for use in demanding measuring jobs in harsh industrial environments.



PS

### Technical specifications

MODEL	With internal diaphragm					With front flush diaphragm						
	3284	3384	3289	3288	3389	3285	3294	3394	3299	3286		
Specifications												
Pressure	Positive and negative gauge		Absolute			Positive and negative gauge				Absolute		
Ranges to EN [Bar]	-1...±0.25...25		40...1000			0.25...25		-1...-0.4...0.25...1000		-1...±0.25...25	40...600	0.25...25
Accuracy	0.1%		0.1%	0.05%		0.05%		0.1%		0.1%	0.05%	
Pressure sensor type	Piezoresistive	Thin film	Piezoresistive	Thin film (over 40 Bar)		Piezoresistive	Thin film	Piezoresistive		Piezoresistive		
Overload pressure	3x(≤25 Bar); 2x(≤600 Bar); 1.5x(>600 Bar)					3x(≤25 Bar); 2x(≤600 Bar)						
Output (3-wire)	0...20 mA, 4...20 mA, 0...10 V, 0...5 V or RS232					0...20 mA or RS232		0...20 mA, 4...20 mA, 0...10 V, 0...5 V or RS232				
Case	Stainless steel 1.4301											
Pressure connection	SS 1.4571: G1/2", 1/2"NPT G1/4", 1/4"NPT					SS 1.4571: G1/2" (<2.5 Bar -G1")						
Power supply	10...30 VDC (14... 30 VDC - for 0...10 V output), RS232-supply from interface											
Electrical connection	1.5 m. cable through PG gland <i>Option</i> : Terminal box IP 67											
Medium temperature	-20 to +70 °C											
Ambient temperature	0...+70 °C											
Protection class	IP 65 or IP 67 (terminal box option only)											

### Ordering code



PS★ - G3.G9.G11 - #1

Code	Feature or option	Code values
★	Model	Four-digit code from tables above
G3	Input range	0 to ± RANGE, where RANGE = 10, 16, 25, 40 or 60 x 10 <sup>n</sup> or other (applicable for the selected model)
G9	Pressure connection <sup>(1)</sup>	Q23 - G1/4", Q24 - NPT1/4", Q4 - G1/2", Q10 - NPT1/2", Z - other (specify!)
G11	Output signal	A - RS232, E - 0...20 mA, F - 4...20 mA, I - 0...5 V, K - 0...10 V (applicable for the selected model)
#1	Option "Terminal box"	X - none (cable output), B - terminal box IP 67 mounted

<sup>(1)</sup> If applicable for the selected model