

High-protection Pressure Transmitters PS

- ◆ Pressure sensors with field casing IP67
- ◆ Ex - approved pressure sensors
- ◆ Accuracy - up to 0.25%
- ◆ Ranges from 100 mBar up to 4000 Bar
- ◆ Front flush diaphragm models



The PS high-protection pressure transmitters offered by COMECO Ltd. are produced by IMT-Germany or are OEM products assembled by COMECO using modules of IMT. The transmitters include models with field casing IP67 and "EEx ia IIC T5/T6" approved versions. Based on Piezoresistive and Thin film sensitive elements they include sensors for absolute, positive and negative gauge pressure and very low pressures [mBar] transmitters. Increased temperature and oils and fats resistant models are also available. The industrial PS series includes models in the range from 25 mBar to 4000 Bar and accuracy from 0.5% to 0.25% providing 4-20 mA 2-wire or 3-wire current and voltage output. Due to their high-protection and Ex proof design as well as their high accuracy the PS transmitters are very useful for hazardous industrial applications.

PS

Technical specifications

Robust housing MODELS	With internal diaphragm					With front flush diaphragm						
	3336	3352	3236	3212	3234	3214	3338	3353	3238	3218	3235	3219
Specifications												
Pressure	Positive and/or negative gauge					Absolute	Positive and/or negative gauge					Absolute
Ranges to EN [Bar]	25...4000		-1...±0.1...16			0.25...16	25...600		-1...±0.1...16			0.25...16
Accuracy	0.5%	0.25%	0.5%	0.25%	0.5%	0.25%	0.5%	0.25%	0.5%	0.25%	0.5%	0.25%
Pressure sensor type	Thin film		Piezoresistive				Thin film		Piezoresistive			
Overload pressure	3.5x (≤16 Bar); 2x (≤600 Bar); 1.5x (>600 Bar); 1.2x (>1600 Bar); 1.1x (4000 Bar)											
Output	4...20 mA, 0...20 mA, 0...10 V or 0...5 V											
Case	Stainless steel 1.4301											
Pressure connection	SS 1.4571: G1/2", NPT1/2", G1/4", NPT1/4"						SS 1.4571: G1/2", G1" (<1.6 Bar - ONLY G1")					
Power supply	11...30 VDC (14... 30 VDC - for 0...10 V output)											
Electrical connection	Aluminum terminal housing, through cable gland PG <i>Option:</i> Stainless steel terminal housing											
Medium temperature	-30 to +100 °C <i>Option:</i> -40 to +125 °C											
Ambient temperature	-20...+80 °C (IP67)											

Ex - proof MODELS	With internal diaphragm					With front flush diaphragm						
	3378	3379	3202	3204	3207	3209	3387	3388	3217	3227	3222	3232
Specifications												
Pressure	Positive and/or negative gauge					Absolute	Positive and/or negative gauge					Absolute
Ranges to EN [Bar]	25...4000		-1...±0.1...16			0.25...16	25...600		-1...±0.1...16			0.25...16
Accuracy	0.5%	0.25%	0.5%	0.25%	0.5%	0.25%	0.5%	0.25%	0.5%	0.25%	0.5%	0.25%
Pressure sensor type	Thin film		Piezoresistive				Thin film		Piezoresistive			
Overload pressure	3.5x (≤16 Bar); 2x (≤600 Bar); 1.5x (>600 Bar); 1.2x (>1600 Bar); 1.1x (4000 Bar)											
Output	4...20 mA - EEx ia IIC T5/T6											
Case	Stainless steel 1.4301											
Pressure connection	SS1.4571: G1/2",NPT1/2",G1/4",NPT1/4" (>2500Bar - M16x1.5 female)						SS 1.4571: G1/2", G1" (<1.6 Bar - ONLY G1")					
Power supply	11...28 VDC											
Electrical connection	Connector DIN 43650											
Medium temperature	T6: -20...+60 °C; T5: -20...+75 °C											
Ambient temperature	T6: -20...+60 °C; T5: -20...+75 °C (IP65)											

Ordering code



PS★ - G3.G9.G11 - #1#2

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 ⁿ or other (applicable for the selected model)
G9	Pressure connection ⁽¹⁾	Q23 - G1/4", Q24 - NPT1/4", Q4 - G1/2", Q10 - NPT1/2", Z - other (specify!)
G11	Output signal	E - 0...20 mA, F - 4...20 mA, I - 0...5 V, K - 0...10 V (applicable for the selected model)
#1	High temperature option	X - none, H1 (125 °C) - high temperature option (if applicable for the selected model)
#2	Stainless steel housing	X - none, S - stainless steel housing (if applicable for the selected model)

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