

Special Pressure Transmitters PS

- ◆ Special sensors for food industry
- ◆ High mechanical and temperature resistance
- ◆ Hygienic front cone diaphragm models
- ◆ High overload capacity
- ◆ Pressure transmitters with local dial indicator
- ◆ Ex proof versions

The PS special 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 two main groups:

- pressure transmitters for food industry
- pressure transmitters with local indicator

Pressure transmitters for food industry are based on Piezoresistive and Thin film sensitive elements. The range includes pressure sensors for homogenisers with high mechanical resistance, medium temperature up to 120 °C and flange process connection as well as hygienic pressure sensors for food industry with high temperature resistance - up to 150 °C and cone sealed front flush diaphragm. All these pressure sensors meet the special requirements in food industry and homogenisers- all wetted parts are made of stainless steel and completely welded.

Pressure transmitters with local indicator are based on Hall sensor and Bourdon tube providing simultaneously dial indication (gauge) and standardized linear current output. Gauges with liquid filling provide a practically vibration-free display if pressure surges or mechanical vibrations exists. They also meet the requirements to standard pressure gauges of the chemical and related industries. For applications in explosive atmospheres an EX version is also available.



PS

Technical specifications

MODEL	For homogenisers	For food industry	With local indication			
	3270	3271	2850	2851	2860	2861
Specifications						
Pressure	Positive gauge	Positive gauge	Positive gauge			
Ranges to EN [Bar]	60...600	0.1...16	0.6...600			
Accuracy	0.5 %		1 %	1 % (filled)	1 %	1 % (filled)
Pressure sensor type	Thin film	Piezoresistive	Bourdon tube and Hall sensor			
Overload pressure	2x	3.5x	-			
Output	4...20 mA, 0...20 mA, 0...10 V, 0...5 V		0...20 mA		4...20 mA (2-wire)	
Case	Stainless steel 1.4301		All stainless steel 1.4301 (dial and pointer -Aluminum)			
Pressure connection	SS 1.4571: Flange 95x43x28 mm	SS 1.4571: G1" cone sealing	SS 1.4571: G1/2", NPT1/2", G1/4", NPT1/4" or other thread			
Power supply	10...30 VDC (14...30 VDC - for 0...10 V output)		14...30 VDC		10...30 VDC	
Electrical connection	Connector DIN 43650		Cable socket with PG13.5 gland			
Medium temperature	-10 to +120 °C	-10 to +125 °C <i>Option: +150 °C</i>	-25 to +100 °C			
Ambient temperature	-10...+80 °C IP65		-25...+60 °C			
Protection class	IP 65		IP 54	IP 65	IP 54	IP 65
Ex - version	-		Available as <i>option</i>			

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	A - RS232, 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, H2 (150 °C) - high temperature options (if applicable for the selected model)
#2	Ex option	X - none, E - EEx ib IIC T6 approved version

⁽¹⁾ If applicable for the selected model!