



# 17.609 G

## OEM Pressure Transmitter

### Application:

- ▶ refrigeration

### Characteristics:

- ▶ stainless steel sensor, welded
- ▶ accuracy 0.5 % FSO according to IEC 60770
- ▶ nominal pressure ranges from  
0 ... 6 bar up to 0 ... 60 bar  
-1 ... 6 bar up to -1 ... 60 bar

### Technical Data



Pressure ranges							
Nominal pressure gauge	[bar]	6	10	16	25	40	60
Overpressure	[bar]	14	35	35	70	140	140
Burst pressure ≥	[bar]	28	70	70	140	280	280
Vacuum resistance		unlimited					
Vacuum ranges							
Nominal pressure gauge	[bar]	-1 ... 6	-1 ... 10	-1 ... 16	-1 ... 25	-1 ... 40	-1 ... 60
Overpressure	[bar]	14	35	35	70	140	140
Burst pressure	[bar]	28	70	70	140	280	280
Output signal / Supply							
Standard		2-wire: 4 ... 20 mA		/ V <sub>S</sub> = 8 ... 32 V <sub>DC</sub>			
Options 3-wire		3-wire: 0 ... 10 V		/ V <sub>S</sub> = 14 ... 30 V <sub>DC</sub>			
		3-wire ratiometric: V <sub>Sig</sub> = 0.5 ... 4.5 V		/ V <sub>S</sub> = 5 ± 0.5 V <sub>DC</sub>			
Performance							
Accuracy <sup>1</sup>		≤ ± 0.5 % FSO					
Permissible load		2-wire: R <sub>max</sub> = [(V <sub>S</sub> - V <sub>S min</sub> ) / 0.02] Ω			3-wire: R <sub>min</sub> = 10 kΩ		
Influence effects		supply: 0.05 % FSO / 10 V			load: 0.05 % FSO / kΩ		
Response time		2-wire: ≤ 10 msec			3-wire: ≤ 3 msec		
Measuring rate		1 kHz					
<sup>1</sup> accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)							
Thermal effects (Offset and Span) / Permissible temperatures							
Thermal error		≤ ± 0.3 % FSO / 10 K		in compensated range 0 ... 70 °C			
Permissible temperatures		medium: -40 ... 125 °C		electronics / environment: -40 ... 85 °C		storage: -40 ... 85 °C	
Electrical protection							
Short-circuit protection		permanent		3-wire ratiometric: none			
Reverse polarity protection		no damage, but also no function					
Electromagnetic protection		emission and immunity according to EN 61326					
Mechanical stability							
Vibration		20 g, 25 Hz ... 2 kHz		according to DIN EN 60068-2-6			
Shock		500 g / 1 msec		according to DIN EN 60068-2-27			

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Technical Data

Materials				
Pressure port	stainless steel 1.4571			
Housing	stainless steel 1.4301			
Seal of sensor	none (welded)			
Diaphragm	stainless steel 1.4542			
Media wetted parts	pressure port, diaphragm			
Miscellaneous				
Mechanical connection	7/16"-20 UNF			
Weight	approx. 120 g			
Current consumption	2-wire: max. 25 mA		3-wire ratiometric: typ. 3 mA	
	3-wire voltage: typ. 5 mA (short circuit current: max. 20 mA)			
Long term stability	$\pm 0.3\%$ FSO / year at reference conditions			
Operational life	$> 100 \times 10^6$ pressure cycles			
CE-conformity	EMC Directive: 2004/108/EC			
Wiring diagrams				
<p>2-wire-system (current)</p>		<p>3-wire-system (voltage)</p>		
Pin configuration				
Electrical connection	ISO 4400	Micro (contact distance 9.4 mm)	M12x1 (4-pin), plastic	cable colours (DIN 47100)
Supply +	1	1	1	wh (white)
Supply -	2	2	2	bn (brown)
Signal + (for 3-wire)	3	3	3	gn (green)
Shield	ground pin	ground pin	4	gn/ye (green / yellow)
Dimensions (in mm)				
<p>ISO 4400 (IP 65)</p>		<p>Micro, contact distance 9.4 mm (IP 65)</p>		<p>M12x1, 4-pin (IP 67)</p>
				<p>cable outlet with PVC-cable (IP 67)<sup>2,3</sup></p>
<p><sup>2</sup> standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C)</p> <p><sup>3</sup> different cable types and lengths available, permissible temperature depends on kind of cable</p>				

This data sheet contains product specification, properties are not guaranteed. Subject to change without notice.

