

17.600 G



OEM Pressure Transmitter Heavy Duty

Applications

- ▶ mobile hydraulic
- ▶ presses
- ▶ general mechanical engineering
- ▶ oxygen application

Characteristics

- ▶ stainless steel sensor, welded
- ▶ accuracy 0.5 % FSO according to IEC 60770
- ▶ nominal pressure ranges from 0 ... 6 bar up to 0 ... 600 bar



Technical Data

Input pressure range												
Nominal pressure gauge [bar]	6	10	16	25	40	60	100	160	250	400	600	
Overpressure (static) [bar]	14	35	35	70	140	140	350	350	700	1 200	1 200	
Burst pressure \geq [bar]	28	70	70	140	280	280	700	700	1 400	1 500	1 500	
Vacuum resistance	unlimited											
Output signal / Supply												
Standard	2-wire: 4 ... 20 mA / $V_s = 8 \dots 32 V_{DC}$											
Options	3-wire: 0 ... 10 V / $V_s = 14 \dots 30 V_{DC}$											
	3-wire ratiometric: $V_{Sig} = 0.5 \dots 4.5 V$ / $V_s = 5 \pm 0.5 V_{DC}$											
Performance												
Accuracy ¹	$\leq \pm 0.5 \% \text{ FSO}$											
Permissible load	2-wire: $R_{max} = [(V_s - V_s \text{ min}) / 0.02] \Omega$ 3-wire: $R_{min} = 10 \text{ k}\Omega$											
Influence effects	supply: 0.05 % FSO / 10 V load: 0.05 % FSO / $\text{k}\Omega$											
Response time	2-wire: $\leq 10 \text{ msec}$						3-wire: $\leq 3 \text{ msec}$					
Measuring rate	1 kHz											
¹ accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)												
Thermal effects (Offset and Span) / Permissible temperatures												
Thermal error	$\leq \pm 0.3 \% \text{ FSO} / 10 \text{ K}$			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 pressure port	FKM: G 1/4" DIN 3852	others on request		
Seal of sensor	none (welded)			
Diaphragm	stainless steel 1.4542			
Media wetted parts	pressure port, seal of pressure port, diaphragm			
Miscellaneous				
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	≤ ± 0.3 % FSO / year			
Operational life	> 100 x 10 ⁶ pressure cycles			
CE-conformity	EMC Directive: 2004/108/EC		Pressure Equipment Directive: 97/23/EC (module A) ²	
² This directive is only valid for devices with maximum permissible overpressure > 200 bar				
Wiring diagrams				
2-wire-system (current) 		3-wire-system (voltage) 		
Pin configuration				
Electrical connection	ISO 4400	Micro (contact distance 9.4 mm)	M12x1 (4-pin), plastic	cable colour (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)
Electrical connections (dimensions in mm)				
³ standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C) ⁴ different cable types and lengths available, permissible temperature depends on kind of cable				
Mechanical connection (dimensions in mm)				

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

Ordering code 17.600 G

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Input	[bar]																				
	6	6	0	0	1																
	10	1	0	0	2																
	16	1	6	0	2																
	25	2	5	0	2																
	40	4	0	0	2																
	60	6	0	0	2																
	100	1	0	0	3																
	160	1	6	0	3																
	250	2	5	0	3																
	400	4	0	0	3																
	600	6	0	0	3																
	customer	9	9	9	9															consult	
Pressure	gauge				R																
Output	4 ... 20 mA / 2-wire				1																
	0 ... 10 V / 3-wire				3																
	0.5 ... 4.5 V / 3-wire ratiometric				R																
Accuracy	0.5 % FSO				5																
	customer				9																consult
Electrical connection	Male and female plug ISO 4400				1	0	0														
	Male and female plug Micro				C	1	0														
	Male plug M12x1 (4-pin), plastic				M	0	0														
	Cable outlet with PVC-cable ¹				T	A	0														
	customer				9	9	9														consult
Mechanical connection / Seal	G1/4" DIN 3852 / on pressure port: FKM				3	0	0	P													
	G1/4" EN 837 / without				4	0	0	2													
	1/4" NPT / without				N	4	0	2													
	G1/2" EN 837 / without				2	0	0	2													
	customer				9	9	9	9													consult
Special version	standard																				
	oxygen application ²																				
	oil and grease free																				
	customer																				consult

¹ standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C)

² not possible with 1/4" DIN 3852

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