

# 17.620 G

## Compact OEM Pressure Transmitter Heavy Duty

### Applications:

- ▶ mobile hydraulic, presses
- ▶ general mechanical engineering

### Characteristics:

- ▶ stainless steel sensor, welded
- ▶ nominal pressure ranges from 0 ... 16 bar up to 0 ... 1000 bar
- ▶ accuracy according to IEC 60770: 0.5 % FSO



### Technical Data

Input pressure range											
Nominal pressure gauge	[bar]	16	25	40	60	100	160	250	400	600	1000 <sup>1</sup>
Overpressure (static)	[bar]	50	50	80	120	200	320	500	800	1200	1500
Burst pressure ≥	[bar]	125	125	200	300	500	800	1250	2000	2000	3000
<sup>1</sup> only for static pressures											
Output signal / Supply											
2-wire		4 ... 20 mA				$V_S = 10 \dots 30 V_{DC}$					
3-wire ratiometric		10 ... 90% of $V_S$				$V_S = 2.7 \dots 5 V_{DC}$					
Performance											
Accuracy <sup>2</sup>		≤ ± 0.5 % FSO									
Permissible load		2 wire: $R_{max} = [(V_S - V_{Smin}) / 0.02 A] \Omega$					3 wire: $R_{min} = 10 k\Omega$				
Influence effects		supply: 0.05 % FSO / 10 V					load: 0.05 % FSO / kΩ				
Response time		typ. 2 msec									
Long term stability		≤ ± 0.2 % FSO / year at reference conditions									
Measuring rate		1 kHz									
<sup>2</sup> accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)											
Thermal effects (Offset and Span) / Permissible temperatures											
Thermal error		≤ ± 0.2 % FSO / 10 K					in compensated range -20 ... 80 °C				
Permissible temperatures		medium: -40 ... 125 °C									
		electronics / environment: -40 ... 85 °C									
		storage: -40 ... 85 °C									
Electrical protection											
Short-circuit protection		2-wire: 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					

Materials		
Pressure port	$P_N \leq 600$ bar: stainless steel 316L (1.4404), $P_N > 600$ bar: stainless steel 17-4 PH (1.4542)	
Housing	stainless steel 304 (1.4301)	
Seal of pressure port	FKM: G 1/4" DIN 3852	others on request
Seal of sensor	none (welded)	
Sensor	stainless steel 17-4PH (1.4548)	
Media wetted parts	pressure port, seal, sensor	
Miscellaneous		
Weight	approx. 54 g	
Current consumption	2-wire: max. 25 mA	3-wire ratiometric: typ. 2.5 mA
Operational life	100 million load cycles	
CE-conformity	EMC Directive: 2014/30/EU	Pressure Equipment Directive: 2014/68/EU (module A) <sup>3</sup>
<sup>3</sup> 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	male plug M12x1 (4-pin), metal	male plug Micro (contact distance 9.4 mm) (on request)
Supply +	1	1
Supply -	3	3
Signal + (for 3-wire)	2	2
Shield	housing	ground pin
Dimensions (mm / in)		
<p><b>standard</b></p>		
Mechanical connections (mm / in)		

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