

# 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 $\geq$	[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>	$\leq \pm 0.5 \% \text{ FSO}$	
Permissible load	2 wire: $R_{max} = [(V_S - V_{Smin}) / 0.02 A] \Omega$	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	typ. 2 msec	
Long term stability	$\leq \pm 0.2 \% \text{ FSO} / \text{year}$ 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	$\leq \pm 0.2 \% \text{ FSO} / 10 \text{ K}$	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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## Ordering code 17.620 G

17.620 G - [ ] [ ] [ ] [ ] - [ ] - [ ] - [ ] - [ ] [ ] [ ] [ ] - [ ] [ ] [ ] [ ] - [ ] - [ ] [ ] [ ]

Input		[bar]																			
	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															
	1000		1	0	0	4															
	customer		9	9	9	9														consult	
Pressure																					
	gauge						R														
Output																					
	4 ... 20 mA / 2-wire						1														
	10 ... 90% of Vs / 3-wire ratiometric						R														
	customer						9														consult
Accuracy																					
	0.5 % FSO IEC						5														
	customer						9														consult
Electrical connection																					
	male plug M12x1 (4-pin), metal							M	1	3											
	male plug Micro (contact distance 9.4 mm)							C	B	0											consult
	customer							9	9	9											consult
Mechanical connection / Seal																					
	G1/4" DIN 3852 /																				
	on pressure port: FKM								3	0	0	P									
	1/4" NPT / without							N	4	0	2										
	R1/4" / without							R	4	0	2										
	customer							9	9	9	9										consult
Special version																					
	standard																				0 0 0
	customer																				9 9 9
																					consult

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