

# 17.620 G

## Compact OEM Pressure Transmitter Heavy Duty

### Applications:

- ▶ mobile hydraulic, presses
- ▶ general mechanical engineering

### Characteristics:

- ▶ stainless steel sensor, welded
- ▶ accuracy according to IEC 60770:  
0.5 % FSO
- ▶ nominal pressure ranges from  
0 ... 16 bar up to 0 ... 600 bar



### Technical Data

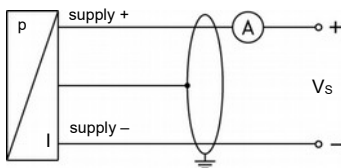
Input pressure range										
Nominal pressure gauge	[bar]	16	25	40	60	100	160	250	400	600
Overpressure (static)	[bar]	50	50	80	120	200	320	500	800	1200
Burst pressure ≥	[bar]	125	125	200	300	500	800	1250	2000	2000
Output signal / Supply										
2-wire		4 ... 20 mA			V <sub>S</sub> = 10 ... 30 V <sub>DC</sub>					
3-wire ratiometric		10 ... 90% of V <sub>S</sub>			V <sub>S</sub> = 2.7 ... 5 V <sub>DC</sub>					
Performance										
Accuracy <sup>1</sup>		≤ ± 0.5 % FSO								
Permissible load		2 wire: R <sub>max</sub> = [(U <sub>B</sub> - U <sub>B min</sub> ) / 0.02 A] Ω 3 wire: R <sub>min</sub> = 10 kΩ								
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>1</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	stainless steel 316L (1.4404)
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 x 10 <sup>6</sup> pressure cycles
CE-conformity	EMC Directive: 2014/30/EU      Pressure Equipment Directive: 2014/68/EU (module A) <sup>2</sup>

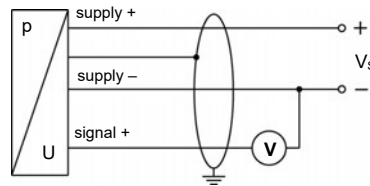
<sup>2</sup> This directive is only valid for devices with maximum permissible overpressure > 200 bar

### Wiring diagrams

#### 2-wire-system (current)



#### 3-wire-system (voltage)

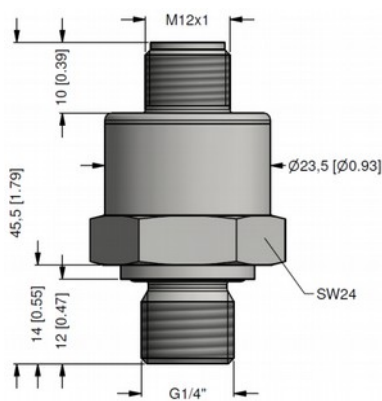


### Pin configuration

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)

#### standard



### Mechanical connections (mm / in)

