

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 ¹
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
¹ only for static pressures											
Output signal / Supply											
2-wire	4 ... 20 mA				V _S = 10 ... 30 V _{DC}						
3-wire ratiometric	10 ... 90% of V _S				V _S = 2.7 ... 5 V _{DC}						
Performance											
Accuracy ²	≤ ± 0.5 % FSO										
Permissible load	2 wire: R _{max} = [(V _S – V _{S min}) / 0.02 A] Ω						3 wire: R _{min} = 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										
² 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	$p_N \leq 600$ bar: 100 million load cycles	$p_N > 600$ bar: 10 million load cycles
CE-conformity	EMC Directive: 2014/30/EU Pressure Equipment Directive: 2014/68/EU (module A) ³	
³ 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)		
Mechanical connections (mm / in)		

Ordering code 17.620 G

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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					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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