

26.600 G



OEM Pressure Transmitter Standard

Applications

- ▶ mechanical and plant engineering
- ▶ general industrial applications

Characteristics

- ▶ ceramic sensor
- ▶ accuracy 0.5 % FSO according to IEC 60770
- ▶ nominal pressure ranges from 0 ... 1 bar up to 0 ... 400 bar
- ▶ option: oil and grease free version

Technical Data



Input pressure range		-1...0 ¹	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400
Nominal pressure gauge [bar]		-	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400
Nominal pressure abs. [bar]		-	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400
Overpressure [bar]		3	3	4	4	10	10	20	40	40	100	100	200	400	400	650
Burst pressure ≥ [bar]		4	4	5	5	12	12	25	50	50	120	120	250	450	450	700
Vacuum resistance		unlimited														

¹ for this pressure range accuracy is ≤ 1 % FSO IEC 60770

Output signal / Supply	
Standard	2-wire: 4 ... 20 mA / V _S = 8 ... 32 V _{DC}
Options	3-wire: 0 ... 10 V / V _S = 14 ... 30 V _{DC} 3-wire ratiometric: V _{sig} = 0.5 ... 4.5 V / V _S = 5 ± 0.5 V _{DC}
Performance	
Accuracy ²	≤ ± 0.5 % FSO
Permissible load	2-wire: R _{max} = [(V _S - V _{Smin}) / 0.02] Ω 3-wire: R _{min} = 10 kΩ
Influence effects	supply: 0.05 % FSO / 10 V load: 0.05 % FSO / kΩ
Response time	2-wire: ≤ 10 msec 3-wire: ≤ 3 msec
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	≤ ± 0.3 % FSO / 10 K in compensated range: -25 ... 85 °C
Permissible temperatures	medium: -25 ... 125 °C electronics / environment: -25 ... 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	10 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 / housing	stainless steel 1.4301			
Seals (media wetted)	FKM	others on request		
Diaphragm	ceramics Al ₂ O ₃ 96 %			
Media wetted parts	pressure port, seals, diaphragm			
Miscellaneous				
Weight	approx. 120 g			
Current consumption	2-wire: max. 25 mA		3-wire ratiometric: typ. 1.5 mA	
	3-wire voltage: typ. 5 mA (short circuit current: max. 20 mA)			
Long term stability	≤ ± 0.3 % FSO / year at reference conditions			
Operational life	> 100 x 10 ⁶ cycles			
CE-conformity	EMC Directive: 2004/108/EC		Pressure Equipment Directive: 97/23/EC (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	ISO 4400	Micro (contact distance 9.4 mm)	M12x1 (4-pin), plastic	cable colours (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)				
* pressure range P _N = 400 bar: total length increases by 12 mm.				
⁴ standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C)				
⁵ 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 26.600 G

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Input		[bar]																			
	1.0	1	0	0	1																
	1.6	1	6	0	1																
	2.5	2	5	0	1																
	4.0	4	0	0	1																
	6.0	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																
	-1 ... 0 ¹	X	1	0	2																
	customer	9	9	9	9															consult	
Pressure																					
	gauge					R															
	absolute					A															
Output																					
	4 ... 20 mA / 2-wire					1															
	0 ... 10 V / 3-wire					3															
	0.5 ... 4.5 V / 3-wire ratiometric					R															
	customer					9															consult
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 ²					T	A	0													
	customer					9	9	9													consult
Mechanical connection																					
	G1/4" DIN 3852					3	0	0													
	G1/4" EN 837					4	0	0													
	1/4" NPT					N	4	0													
	G1/2" EN 837					2	0	0													
	customer					9	9	9													consult
Seal																					
	FKM					1															
	customer					9															consult
Special version																					
	standard					0	0	0													
	oil and grease free					0	0	8													
	customer					9	9	9													consult

¹ for nominal pressure range -1 ... 0 bar accuracy is 1 % FSO

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

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