

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																	
Nominal pressure gauge [bar]	-1...0 ¹	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	5	5	12	12	20	50	50	120	120	200	400	400	650		
Burst pressure ≥ [bar]	4	4	7	7,5	15	18	30	70	75	150	180	300	500	750	1000		
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: 10 ... 90% of V _S / V _S = 2.7 ... 5 V _{DC}

Performance	
Accuracy ²	≤ ± 0.5 % FSO for P _N -1...0 bar: ≤ 1 % FSO
Permissible load	2-wire: R _{max} = [(V _S - V _{Smin}) / 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	2-wire: ≤ 10 msec 3-wire: ≤ 3 msec
Long term stability	≤ ± 0.3 % 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	≤ ± 0.3 % 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

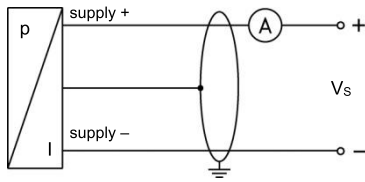


Materials	
Pressure port / housing	stainless steel 1.4301 (304)
Seals (media wetted)	FKM others on request
Diaphragm	ceramics Al ₂ O ₃ 96 %
Media wetted parts	pressure port, seals, diaphragm
Miscellaneous	
Option oxygen application	for P _N ≤ 25 bar: O-ring in FKM Vi 567 (with BAM-approval); permissible maximum values are 25 bar / 150° C
Weight	approx. 120 g
Current consumption	2-wire: max. 25 mA 3-wire ratiometric: typ. 1.5 mA 3-wire voltage: max. 7 mA (short circuit current: max. 20 mA)
Operational life	> 100 x 10 ⁶ cycles
CE-conformity	EMC Directive: 2014/30/EU Pressure Equipment Directive: 2014/68/EU (module A) ³

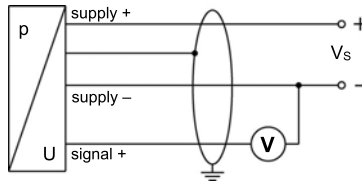
³ This directive is only valid for devices with maximum permissible overpressure > 200 bar

Wiring diagrams

2-wire-system (current)



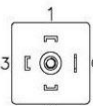
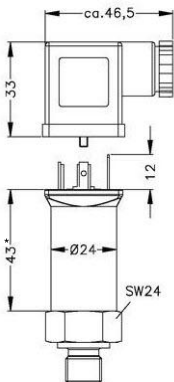
3-wire-system (voltage)



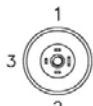
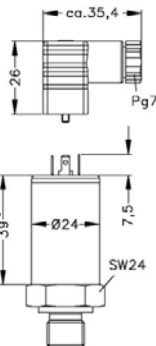
Pin configuration

Electrical connection	ISO 4400	Micro (contact distance 9.4 mm)	M12x1 (4-pin), plastic	cable colour (IEC 60757)
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	gnye (green-yellow)

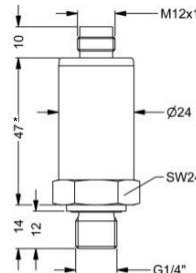
Electrical connections (dimensions in mm)



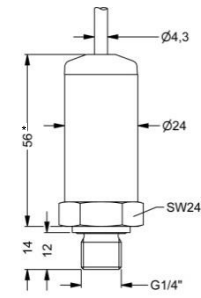
ISO 4400 (IP 65)



Micro, contact distance 9.4 mm (IP 65)



M12x1, 4-pin (IP 67)



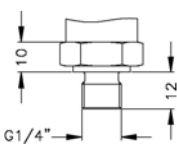
cable outlet with PVC-cable (IP 67)^{4,5}

* pressure range P_N = 400 bar: total length increases by 12 mm

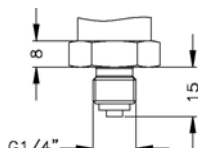
⁴ standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C)

⁵ different cable types and lengths available, permissible temperature depends on kind of cable

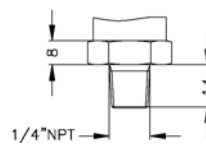
Mechanical connection (dimensions in mm)



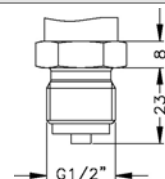
G1/4" DIN 3852



G1/4" EN 837



1/4" NPT



G1/2" EN 837

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	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					
	10 ... 90% of V _S / 3-wire ratiometric							R						
	customer							9						consult
Accuracy														
	0.5 % FSO								5					
	P _N : -1...0 bar								8					
	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 ¹									T	M	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		
	EPDM											3		
	customer											9		consult
Special version														
	standard											0	0	0
	oxygen application ²											0	0	7
	oil and grease free											0	0	8
	customer											9	9	9
														consult

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¹ standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C)

² oxygen application with FKM seal up to 25 bar possible

