

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 _{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	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 ≤ 15 bar: O-ring in 70 EPDM 281 (with BAM-approval); permissible maximum values are 15 bar / 60° C and 10 bar / 90° C 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: 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

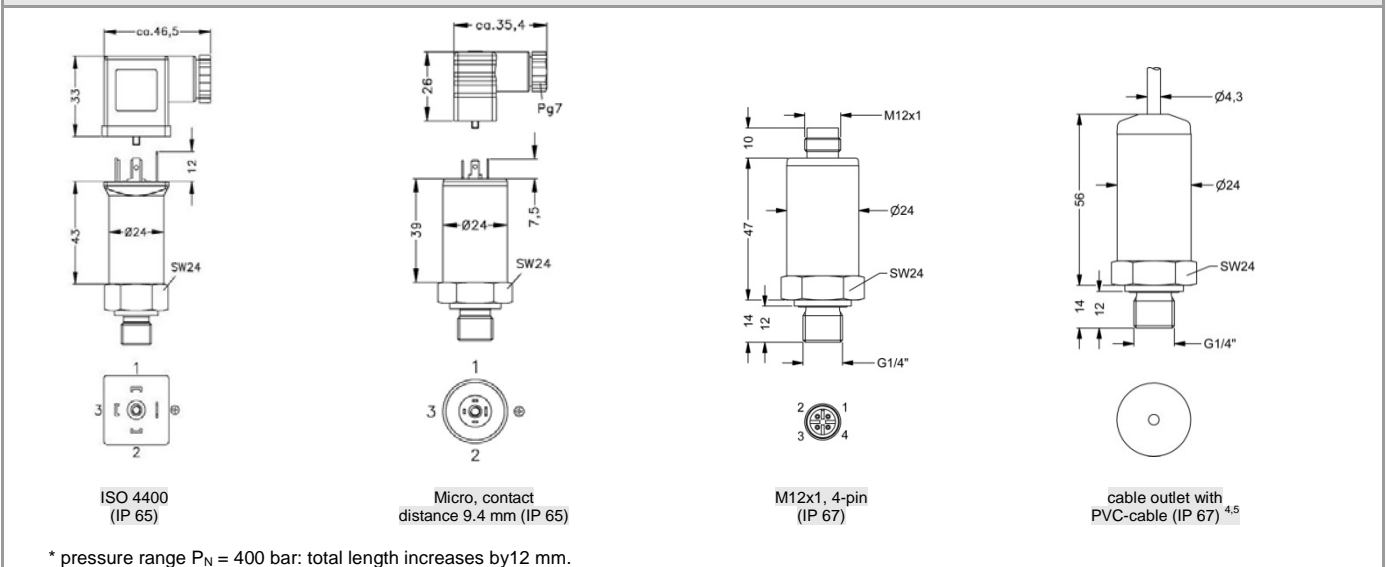
Wiring diagrams



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	ye/gn (yellow / green)

Electrical connections (dimensions in mm)

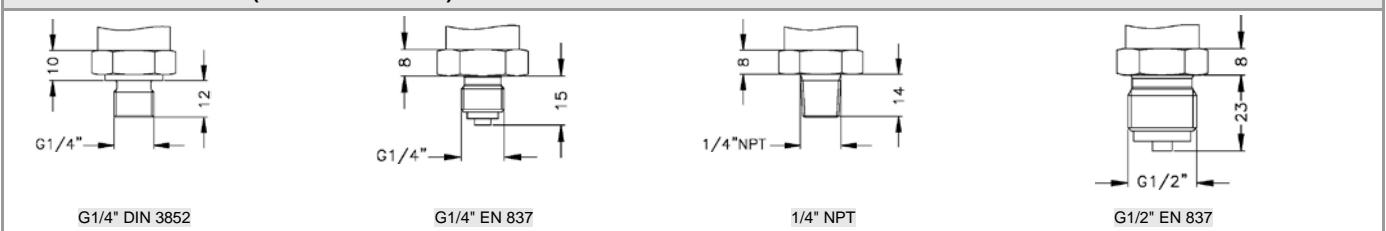


* pressure range P_N = 400 bar: total length increases by 12 mm.

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)



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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
Accuracy														
0.5 % FSO														5
P_N : -1...0														8
customer														9
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 A 0
customer														9 9 9
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
Seal														
FKM														1
EPDM														3
customer														9
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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