



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

 ϵ

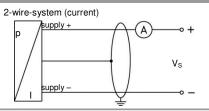
Input pressure range																
Nominal pressure gauge	[bar]	-10	¹ 1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400
Nominal pressure abs.	[bar]	-	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400
Overpressure	[bar]	3	3	5	5	12	12	20	50	50	120	120	200	400	400	650
Burst pressure ≥	[bar]	4	4	7	7,5	15	18	30	70	75	150	180	300	500	750	1000
Vacuum resistance		unlimit	ed													
1 for this pressure range accuracy is < 1 % FSO IFC 60770																

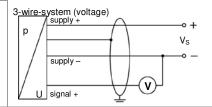
ioi tilis pressure range accuracy is ≤ 1	7. CO 120 30.10							
Output signal / Supply								
Standard	2-wire: 4 20 mA / V _S = 8 32 V _{DC}							
Options	3-wire: $0 \dots 10 \text{ V}$ / $V_S = 14 \dots 30 \text{ V}_{DC}$							
	3-wire ratiometric: $10 \dots 90\%$ of V_S / $V_S = 2.7 \dots 5 V_{DC}$							
Performance								
Accuracy ²	≤±0.5 % FSO							
Permissible load	2-wire: $R_{\text{max}} = [(V_S - V_{S \text{min}}) / 0.02 \text{ A}] \Omega$ 3-wire: $R_{\text{min}} = 10 \text{ k}\Omega$							
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							

Tel +45 4673 0008 Fax +45 3219 0300

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	15 bar / 60° C and	M 281 (with BAM-approval); permissible maximum values are d 10 bar / 90° C 667 (with BAM-approval); permissible maximum values are 25 bar / 150° C					
Weight	approx. 120 g						
Current consumption	2-wire: max. 25 mA 3-wire voltage: max. 7 mA (short o	3-wire ratiometric: typ. 1.5 mA ircuit 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 devi	ces with maximum permissible overpressure >	> 200 bar					

Wiring diagrams

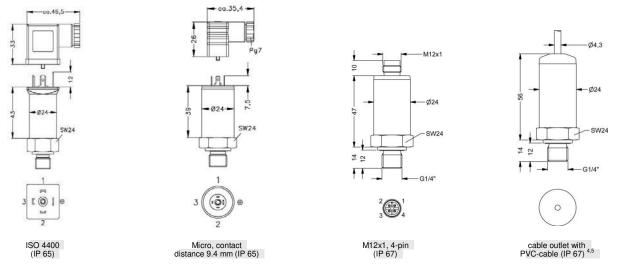




Pin configuration

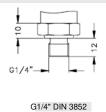
3					
Electrical connection	ISO 4400	Micro (contact distance 9.4 mm)	M12x1 (4-pin), plastic	cable colours (DIN 47100)	
Supply +	1	1	1	wh (white)	
Supply –	2	2	2	bn (brown)	
Signal + (for 3-wire)	3	3	3	gn (green)	
Shield	ground pin	ground pin	4	ye/gn (yellow / green)	

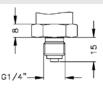
Electrical connections (dimensions in mm)



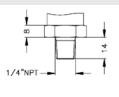
^{*} pressure range $P_N = 400$ bar: total length increases by 12 mm.

Mechanical connection (dimensions in mm)

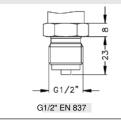




G1/4" EN 837



1/4" NPT



© 2014 BD/SENSORS GmbH - The specifications given in this document represent the state of engineeringat the time of publishing. We reserve the right to make modifications to the specifications and materials.

standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C)
 different cable types and lengths available, permissible temperature depends on kind of cable



Ordering code 26.600 G 26.600 G -Input 1 0 0 1 6 0 2 5 0 4 0 0 6 0 0 1 0 0 1 6 0 1.0 1.6 2.5 4.0 4 0 0 1 6 0 0 1 1 0 0 2 1 6 0 2 2 5 0 2 4 0 0 3 1 6 0 3 2 5 0 3 4 0 0 3 X 1 0 2 9 9 9 9 6.0 10 16 25 40 60 100 160 250 400 -1 ... 0 ¹ customer consult gauge absolute Α Output 4 ... 20 mA / 2-wire 0 ... 10 V / 3-wire 1 10 ... 90% of V_S / 3-wire ratiometric customer R 9 consult Accuracy 0.5 % FSO 5 9 customer consult Electrical connection Male and female plug ISO 4400 1 0 0 C 1 0 M 0 0 T A 0 9 9 9 Male and female plug Micro Male plug M12x1 (4-pin), plastic Cable outlet with PVC cable ² customer consult G1/4" DIN 3852 3 4 0 0 4 0 9 0 0 0 0 9 G1/4" EN 837 1/4" NPT N 2 9 G1/2" EN 837 customer consult FKM **EPDM** customer 9 consult Special version 0 0 0 0 0 7 0 0 8 9 9 9 standard oxygen application 3 oil and grease free customer consult

ch.dk ch.dk

This price list contains product specification; properties are not guaranteed. Detailed information about options are defined in the datasheet. Subject to change without notice.

 $^{^{\}rm 1}$ 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)

 $^{^{\}rm 3}$ oxygen application with FKM seal up to 25 bar or with EPDM seal up to 15 bar posible