

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	15	15	25	70	70	150	150	250	500	500	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 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
Measuring rate	1 kHz

² accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)

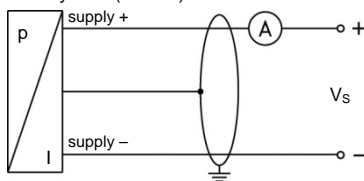
Thermal effects (Offset and Span) / Permissible temperatures			
Thermal error	≤ ± 0.3 % FSO / 10 K in compensated range: -25 ... 85 °C		
Permissible temperatures	medium: -25 ... 125 °C	electronics / environment: -25 ... 85 °C	storage: -40 ... 85 °C
Electrical protection			
Short-circuit protection	permanent	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)
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

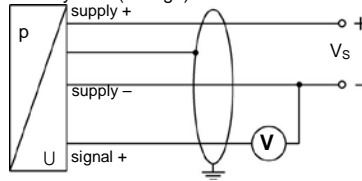
³ This directive is only valid for devices with maximum permissible overpressure > 200 bar

Wiring diagrams

2-wire-system (current)



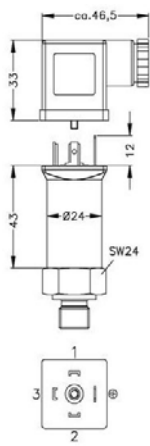
3-wire-system (voltage)



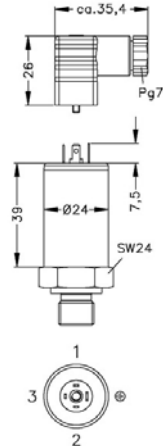
Pin configuration

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	ye/gn (yellow / green)

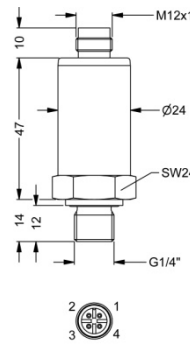
Electrical connections (dimensions in mm)



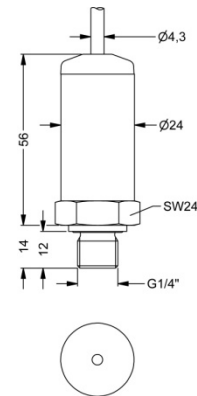
ISO 4400 (IP 65)



Micro, contact distance 9.4 mm (IP 65)



M12x1, 4-pin (IP 67)



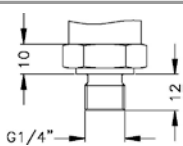
cable outlet with PVC-cable (IP 67)^{4,5}

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

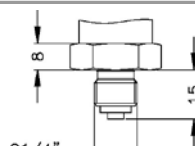
⁴ standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C)

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

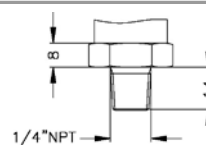
Mechanical connection (dimensions in mm)



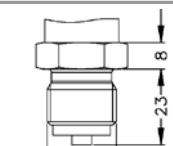
G1/4" DIN 3852



G1/4" EN 837



1/4" NPT



G1/2" EN 837

This data sheet contains product specification, properties are not guaranteed. Subject to change without notice.

Ordering code 26.600 G

26.600 G - - - - - - -

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
	EPDM																					3
	customer																					9
Special version																						
	standard																					0 0 0
	oxygen application ³																					0 0 7
	oil and grease free																					0 0 8
	customer																					9 9 9
																						consult

Prices EXW Thierstein, excluding package

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)

³ oxygen application with FKM seal up to 25 bar or with EPDM seal up to 15 bar possible

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

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BD|SENSORS GmbH
BD-Sensors-Straße 1
D - 95199 Thierstein

Tel. +49 (0) 9235 / 98 11 - 0
Fax +49 (0) 9235 / 98 11 - 11

www.bdsensors.de
www.bdsensors.com
info@bdsensors.de