

26.600 G

OEM Pressure Transmitter Standard

Applications

- ▶ mechanical and plant engineering
- ▶ general industrial applications

Characteristics

- ▶ ceramic sensor
- ▶ accuracy 0.5 % span according to EN IEC 62828-2
- ▶ 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 % span IEC 60770																

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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 % span for P _N -1...0 bar: ≤ 1 % span
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 % span / 10 V load: 0.05 % span / kΩ
Response time	2-wire: ≤ 10 msec 3-wire: ≤ 3 msec
Long term stability	≤ ± 0.3 % span / year at reference conditions
Measuring rate	1 kHz

² accuracy according to EN IEC 62828-2– limit point adjustment (non-linearity, hysteresis, repeatability)

Thermal effects (Offset and Span) / Permissible temperatures	
Thermal error	≤ ± 0.3 % span / 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



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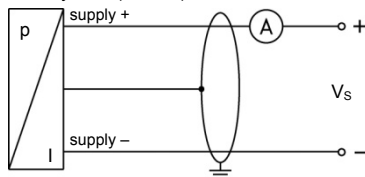
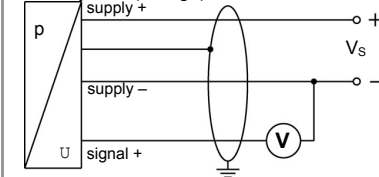
Materials

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

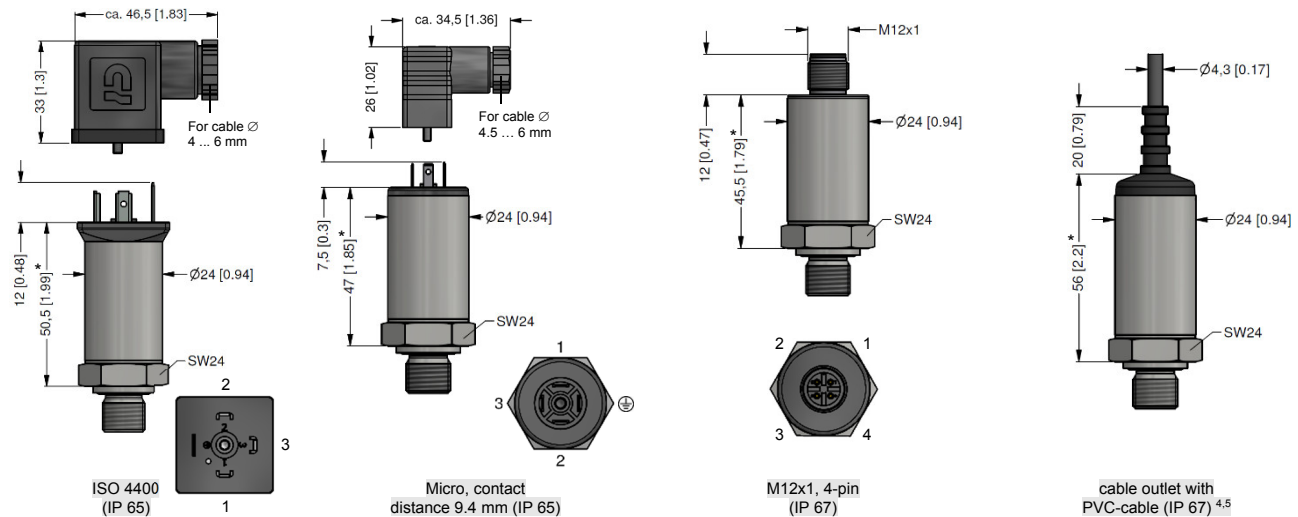
Miscellaneous

Option oxygen application	for $P_N \leq 15$ bar: O-ring in 70 EPDM 281 (with BAM-approval); permissible maximum values are 15 bar / 60° C and 10 bar / 90° C for $P_N \leq 25$ 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 voltage: max. 7 mA (short circuit current: max. 20 mA) 3-wire ratiometric: typ. 1.5 mA
Operational life	100 million load 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), metal	cable colours (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	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)

Ordering code OEM 26.600G

29.06.2023

OEM 26.600G

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Input [bar]

0 ... 1	1	0	0	1
0 ... 1,6	1	6	0	1
0 ... 2,5	2	5	0	1
0 ... 4	4	0	0	1
0 ... 6	6	0	0	1
0 ... 10	1	0	0	2
0 ... 16	1	6	0	2
0 ... 25	2	5	0	2
0 ... 40	4	0	0	2
0 ... 60	6	0	0	2
0 ... 100	1	0	0	3
0 ... 160	1	6	0	3
0 ... 250	2	5	0	3
0 ... 400	4	0	0	3
-1 ... 0 (accuracy 1%)	X	1	0	2
Customer	9	9	9	9
Customer - underpressure (accuracy 1%)	X	X	X	X

Pressure

Gauge	R
Absolute	A

Output

4 ... 20 mA / 2-wire	1
0 ... 20 mA / 3-wire	2
0 ... 10 V / 3-wire	3
0 ... 5 V / 3-wire	4
4 ... 20 mA / 3-wire	7
1 ... 5 V / 3-wire	C
10 ... 90 % Vs / 3-wire ratiometric (Vs = 2,7 ... 5 V DC)	R
Customer	9

Accuracy

0,5 %	5
1 % (underpressure ranges)	8
0,5 % including Calibration Certificate	T
1 % including Calibration Certificate	U
Table of measured values for accuracy 0,5 %	N
Customer	9

Electrical connection

Connector DIN 43650 (ISO 4400) (IP 65)	1	0	0
Cable gland PG7 / cable length specify (IP 67)	4	0	0
+ PVC cable / 1 m			
Connector DIN 43650 (ISO 4400) - potting compound inside (IP 67)	E	0	0
Connector M12 x 1, 4-pin (IP 67)	M	0	0
Connector M12 x 1, 4-pin (IP 67) - without plug	M	B	S
Connector M12 x 1, 4-pin (IP 67) - metal	M	1	0
Cable outlet / cable length specify (IP 67) ¹	T	A	0
+ PVC cable / 1 m			
Customer	9	9	9

Mechanical connection

G 1/2" DIN 3852	1	0	0
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G 1/2" EN 837	2	0	0				
G 1/4" DIN 3852	3	0	0				
G 1/4" EN 837	4	0	0				
M 20 x 1,5 EN 837 (max. for 250 bar)	8	0	0				
1/4" NPT	N	4	0				
M 12 x 1,5 DIN 3852	C	0	0				
G 1/2" DIN 3852 open	H	0	0				
G 1/8" DIN 3852	Z	3	7				
Customer	9	9	9				
Seals							
Viton (FKM)				1			
EPDM				3			
Customer				9			
Special version							
Standard					0	0	0
Oxygen application ($P_N \leq 25$ bar)					0	0	7
Oil and grease free					0	0	8
With throttle screw M4					0	7	0
Customer					9	9	9

0,...without additional charge

On request... in accordance with the producer

1 - cable without through capillary (permissible temperature -5 ... +70 °C)

Surcharges for calibration are not subject to any discounts. Subject to change.

This document contains the specification for ordering the product;

detailed technical parameters of the product and its possible variants are given in the data sheet.

BD SENSORS reserves the right to change sensor specifications without further notice.



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