

## 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



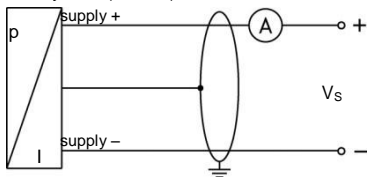
Input pressure range																		
Nominal pressure gauge	[bar]	-1 ... 0 <sup>1</sup>	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400		
Nominal pressure abs.	[bar]	-	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400		
Overpressure	[bar]	3	3	5	5	12	12	20	50	50	120	120	200	400	400	650		
Burst pressure ≥	[bar]	4	4	7	7,5	15	18	30	70	75	150	180	300	500	750	1000		
Vacuum resistance		unlimited																
<sup>1</sup> for this pressure range accuracy is ≤ 1 % FSO IEC 60770																		
Output signal / Supply																		
Standard	2-wire:	4 ... 20 mA					/ V <sub>S</sub> = 8 ... 32 V <sub>DC</sub>											
Options	3-wire:	0 ... 10 V					/ V <sub>S</sub> = 14 ... 30 V <sub>DC</sub>											
	3-wire ratiometric:	10 ... 90% of V <sub>S</sub>					/ V <sub>S</sub> = 2.7 ... 5 V <sub>DC</sub>											
Performance																		
Accuracy <sup>2</sup>		≤ ± 0.5 % FSO																
Permissible load	2-wire:	R <sub>max</sub> = [(V <sub>S</sub> - V <sub>Smin</sub> ) / 0.02 A] Ω					3-wire: R <sub>min</sub> = 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																
<sup>2</sup> 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 <span style="float: right;">others on request</span>
Diaphragm	ceramics Al <sub>2</sub> O <sub>3</sub> 96 %
Media wetted parts	pressure port, seals, diaphragm
Miscellaneous	
Option oxygen application	for P <sub>N</sub> ≤ 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 <sub>N</sub> ≤ 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 <span style="float: right;">3-wire ratiometric: typ. 1.5 mA</span> 3-wire voltage: max. 7 mA (short circuit current: max. 20 mA)
Operational life	> 100 x 10 <sup>6</sup> cycles
CE-conformity	EMC Directive: 2004/108/EC <span style="float: right;">Pressure Equipment Directive: 97/23/EC (module A)<sup>3</sup></span>

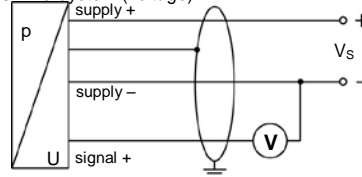
<sup>3</sup> This directive is only valid for devices with maximum permissible overpressure > 200 bar

### 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)<sup>4,5</sup>

\* pressure range P<sub>N</sub> = 400 bar: total length increases by 12 mm.

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

