

# 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		-1...0 <sup>1</sup>	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400
Nominal pressure gauge [bar]		-	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 for P <sub>N</sub> -1...0 bar: ≤ 1 % FSO
Permissible load	2-wire: R <sub>max</sub> = [(V <sub>S</sub> - V <sub>S min</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 others on request
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> ≤ 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 <sup>6</sup> cycles
CE-conformity	EMC Directive: 2014/30/EU Pressure Equipment Directive: 2014/68/EU (module A) <sup>3</sup>

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

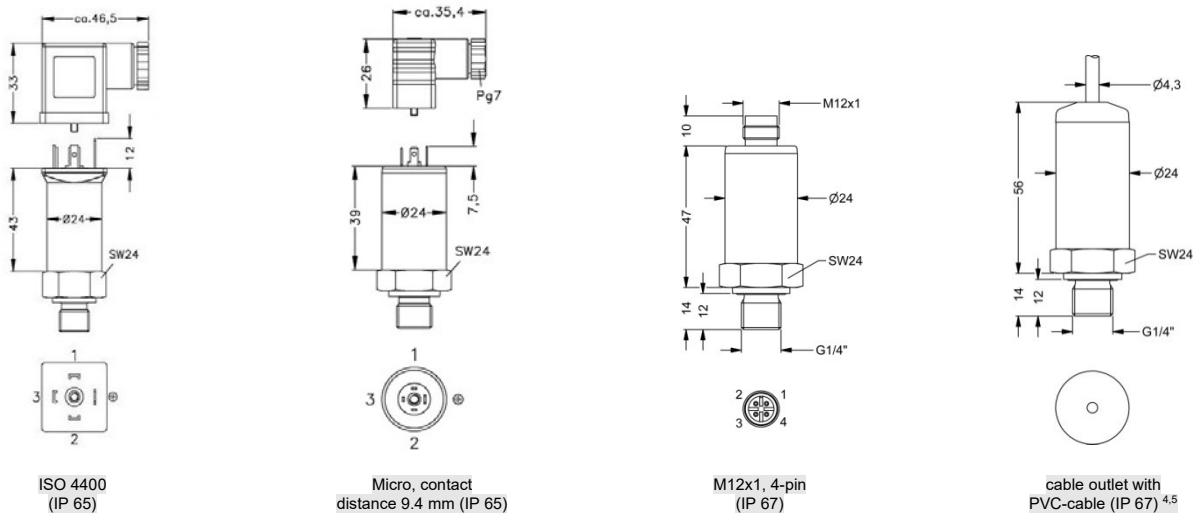
### Wiring diagrams



### Pin configuration

Electrical connection	ISO 4400	Micro (contact distance 9.4 mm)	M12x1 (4-pin), plastic	cable colour (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	gnye (green-yellow)

### Electrical connections (dimensions in mm)



\* 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)

