

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	7.5	15	18	30	70	75	150	180	300	500	750	1000	
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:	10 ... 90% of V _S / V _S = 2.7 ... 5 V _{DC}

Performance		
Accuracy ²	≤ ± 0.5 % FSO	for P _N -1...0 bar: ≤ 1 % 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
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

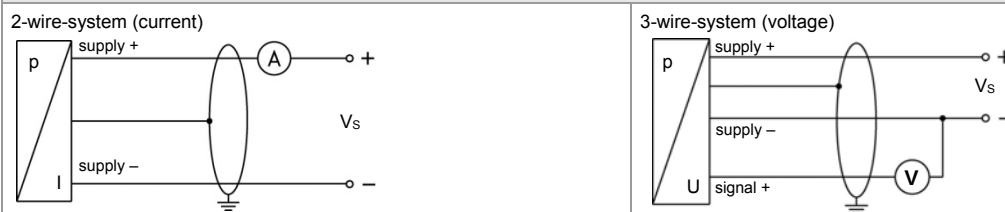
Materials

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

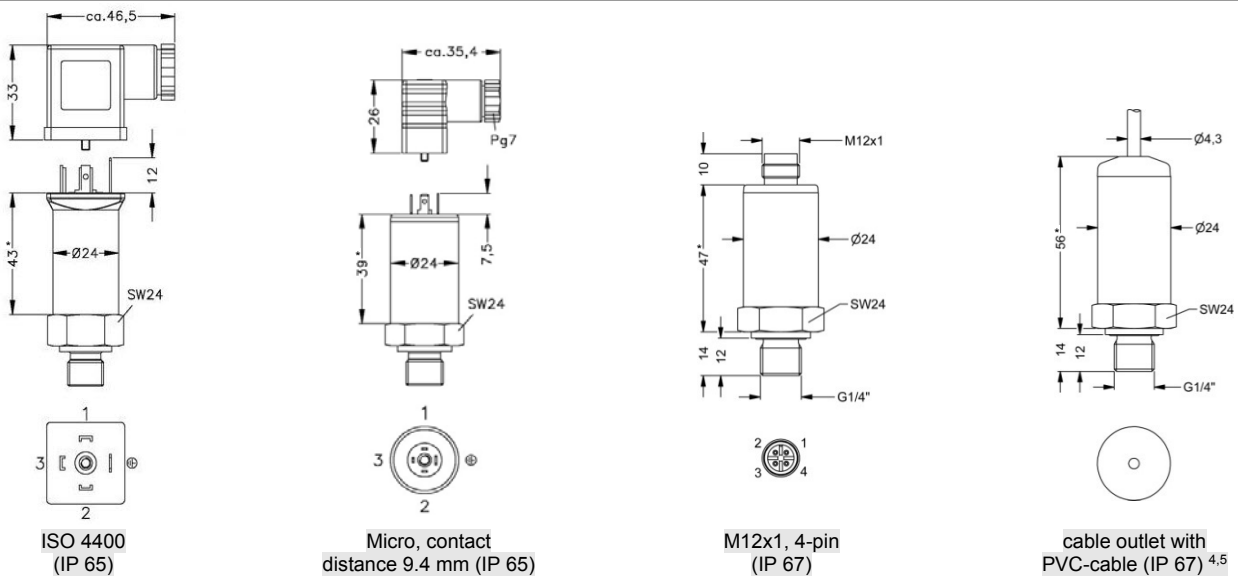
Miscellaneous

Option oxygen application	for $P_N \leq 25$ 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 million load cycles

CE-conformity EMC Directive: 2014/30/EU Pressure Equipment Directive: 2014/68/EU (module A)³³ 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), metal	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 $P_N = 400$ bar: total length increases by 12 mm⁴ 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)**