



## FP26.600G OEM pressure transmitter standard



### Applications

- mechanical and plant engineering
- general industrial applications

### Characteristic

- ceramic sensor
- accuracy:  
0.25 % FSO BFSL  
(0.5 % FSO IEC 60770)
- nominal pressure ranges from  
0 ... 1 bar up to 0 ... 400 bar
- option: oil and grease free version



### ■ Technical data

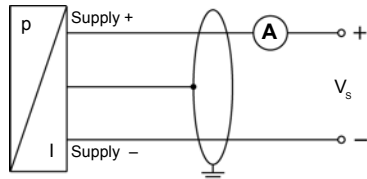
Input pressure range																
Nominal pressure gauge [bar]	-1...0 <sup>1</sup>	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400	
Nominal pressure abs. [bar]	-	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400	
Overpressure [bar]	3	3	4	4	10	10	20	40	40	100	100	200	400	400	650	
Burst pressure [bar]	4	4	5	5	12	12	25	50	50	120	120	250	450	450	700	
Vacuum resistance	unlimited															
<sup>1</sup> for this pressure range accuracy is ≤ 1% FSO IEC 60770 (≤ 0.5% FSO BFSL)																
Output signal / Supply																
Standard	2-wire:		4 ... 20 mA			/ V <sub>S</sub> = 8...32V <sub>DC</sub>										
Options	3-wire:		0 ... 10 V			/ V <sub>S</sub> = 14...30V <sub>DC</sub>										
	3-wire ratiometric:		V <sub>Sig</sub> = 0.5...4.5V <sub>S</sub>			/ V <sub>S</sub> = 5±0.5V <sub>DC</sub>										
Performance																
Accuracy	IEC 60770 <sup>2</sup> : ≤ ± 0.5 % FSO									BFSL: ≤ ± 0.25 % FSO						
Permissible load	2-wire: R <sub>max</sub> = [(V <sub>S</sub> - V <sub>Smin</sub> ) / 0.02] Ω									3-wire: R <sub>min</sub> = 10k Ω						
Influence effects	supply: 0.05 % FSO / 10 V									load: 0.05 % FSO / k Ω						
Response time	2-wire: ≤ 10 msec					3-wire: ≤ 3 msec										
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					permissible temperatures: -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 IEC 68-2-6										
Shock	500 g / 1 msec					according to IEC 68-2-27										

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	
Weight	approx. 120 g
Current consumption	2-wire: max. 25 mA      3-wire ratiometric: typ. 1.5 mA 3-wire voltage: typ. 5 mA (short circuit current: max. 20 mA)
Operational life	>100 x 10 <sup>6</sup> cycles
CE-conformity	EMC Directive: 2004/108/EC      Pressure Equipment Directive: 97/23/EC (module A) <sup>3</sup>

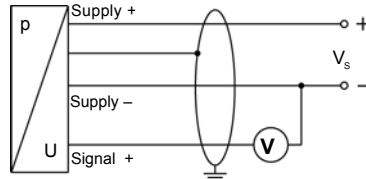
<sup>3</sup> This directive is only valid for devices with maximum permissible overpressure >200 bar

## Wiring diagrams

2-wire-system (current)



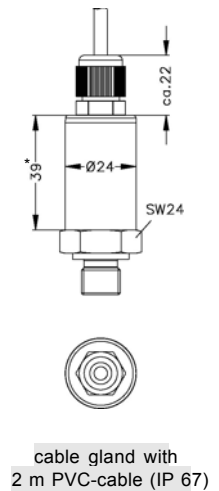
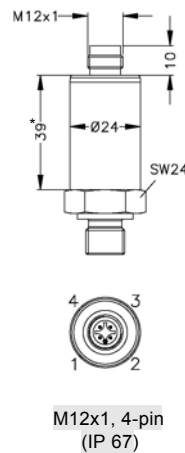
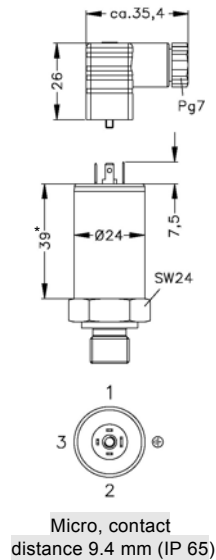
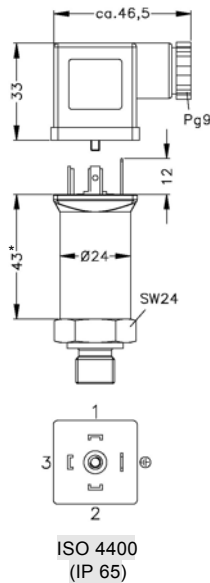
3-wire-system (voltage)



## Pin configuration

Electrical connection	ISO 4400	Micro (contact distance 9.4 mm)	M12x1 (4-pin), plastic	cable colour (DIN 47100)
Supply +	1	1	1	white
Supply -	2	2	2	brown
Signal + (for 3-wire)	3	3	3	green
Shield	ground pin	ground pin	4	yellow / green

## Electrical connections (dimensions in mm)



\* pressure range  $P_r = 400$  bar: total length increases by 12 mm

## Mechanical connection (dimensions in mm)

