

## 30.600 G

### OEM Pressure Transmitter Low Cost



#### Applications

- ▶ mechanical and plant engineering
- ▶ general industrial applications

#### Characteristics

- ▶ ceramic sensor
- ▶ accuracy 1 % FSO according to IEC 60770
- ▶ nominal pressure ranges from 0 ... 1.6 bar up to 0 ... 250 bar

#### Technical Data



Input pressure range													
Nominal pressure gauge [bar]	1.6	2.5	4	6	10	16	25	40	60	100	160	250	
Overpressure [bar]	4	4	10	10	20	40	40	100	100	200	400	400	
Burst pressure ≥ [bar]	7	7	15	15	35	70	70	150	150	250	450	450	
Vacuum resistance	unlimited												
Output signal / Supply													
Standard	2-wire: 4 ... 20 mA / $V_s = 8 \dots 32 V_{DC}$												
Options	3-wire: 0 ... 10 V / $V_s = 14 \dots 30 V_{DC}$												
	3-wire ratiometric: $V_{Sig} = 0.5 \dots 4.5 V$ / $V_s = 5 \pm 0.5 V_{DC}$												
Performance													
Accuracy <sup>1</sup>	$\leq \pm 1 \% \text{ FSO}$												
Permissible load	2-wire: $R_{max} = [(V_s - V_{s min}) / 0.02] \Omega$ 3-wire: $R_{min} = 10 \text{ k}\Omega$												
Influence effects	supply: 0.05 % FSO / 10 V load: 0.05 % FSO / k $\Omega$												
Response time	2-wire: $\leq 10 \text{ msec}$ 3-wire: $\leq 3 \text{ msec}$												
Measuring rate	1 kHz												
<sup>1</sup> accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)													
Thermal effects (Offset and Span) / Permissible temperatures													
Thermal error	$\leq \pm 0.5 \% \text{ FSO} / 10 \text{ K (typ.)}$ 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												

# 30.600 G

OEM Pressure Transmitter

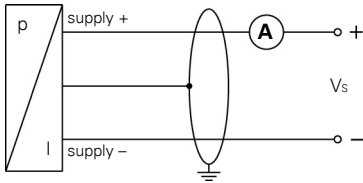
Technical Data

Materials	
Pressure port / housing	stainless steel 1.4301
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)
Long term stability	≤ ± 0.3 % FSO / year at reference conditions
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>2</sup>

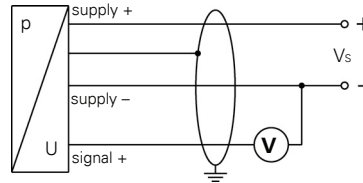
<sup>2</sup> This directive is only valid for devices with maximum permissible overpressure > 200 bar

### Wiring diagrams

#### 2-wire-system (current)



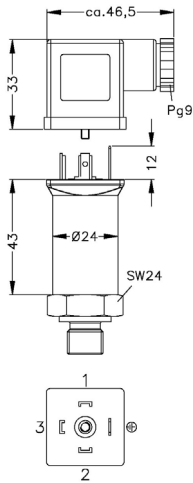
#### 3-wire-system (voltage)



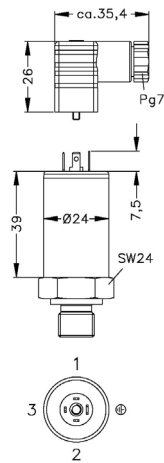
### Pin configuration

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	gn/ye (green / yellow)

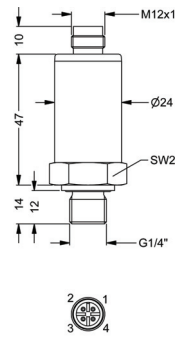
### Electrical connections (dimensions in mm)



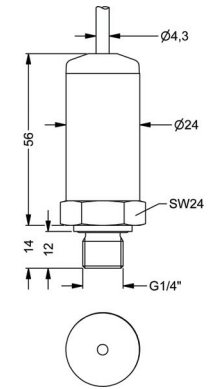
ISO 4400 (IP 65)



Micro, contact-distance 9.4 mm (IP 65)



M12x1, 4-pin (IP 67)

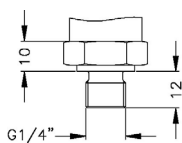


cable outlet with PVC-cable (IP 67)<sup>3,4</sup>

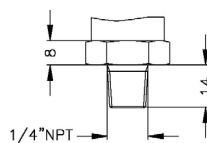
<sup>3</sup> standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C)

<sup>4</sup> different cable types and lengths available, permissible temperature depends on kind of cable

### Mechanical connection (dimensions in mm)



G1/4" DIN 3852



1/4" NPT

This data sheet contains product specification, properties are not guaranteed. Subject to change without notice.

Ordering code 30.600 G

**30.600 G** -     -  -  -  -     -    -       - 2 -  -

<b>Input</b>											
	[bar]										
	1.6	1	6	0	1						
	2.5	2	5	0	1						
	4.0	4	0	0	1						
	6.0	6	0	0	1						
	10	1	0	0	2						
	16	1	6	0	2						
	25	2	5	0	2						
	40	4	0	0	2						
	60	6	0	0	2						
	100	1	0	0	3						
	160	1	6	0	3						
	250	2	5	0	3						
	customer	9	9	9	9						consult
<b>Pressure</b>											
	gauge				R						
<b>Output</b>											
	4 ... 20 mA / 2-wire					1					
	0 ... 10 V / 3-wire					3					
	0.5 ... 4.5 V / 3-wire ratiometric					R					
	customer					9					consult
<b>Accuracy</b>											
	1.0 % FSO					8					
	customer					9					consult
<b>Electrical connection</b>											
	Male and female plug ISO 4400					1	0	0			
	Male and female plug Micro					C	1	0			
	Male plug M12x1 (4-pin), plastic					M	0	0			
	Cable outlet with PVC cable <sup>1</sup>					T	A	0			
	customer					9	9	9			consult
<b>Mechanical connection</b>											
	G1/4" DIN 3852					3	0	0			
	1/4" NPT					N	4	0			
	customer					9	9	9			consult
<b>Seal</b>											
	FKM								1		
	customer								9		consult
<b>Special version</b>											
	standard								0	0	0
	customer								9	9	9
											consult

<sup>1</sup> standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 75 °C)

This price list contains product specification; properties are not guaranteed. Detailed information about options are defined in the datasheet. Subject to change without notice.

