

TECHNICAL DATA

FLOW PRESSURE TEMPERATURE LEVEL



18.605 G

Submersible OEM-Pressure Transmitter

Applications

level measurement in water and fuel oil tanks

Characteristics

- piezoresistive stainless steel sensor
- ► accuracy 0.5 % FSO according to IEC 60770
- nominal pressure ranges from 0 ... 1 mH₂O up to 0 ... 10 mH₂O

Technical Data



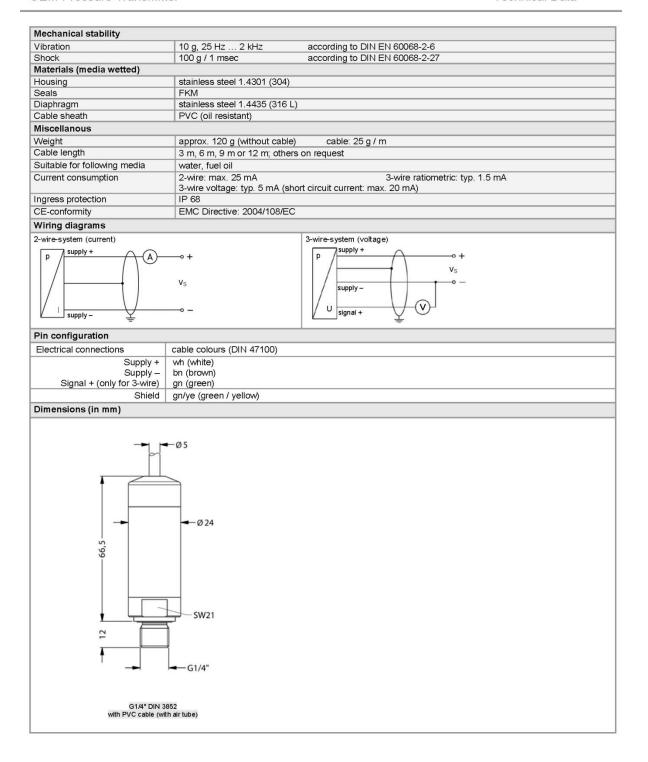
Input pressure range						
Nominal pressure gauge	[bar]	0.1	0.25	0.4	0.6	1
Level	[mH ₂ O]	1	2.5	4	6	10
Overpressure	[bar]	1	1	1	3	3
Burst pressure ≥	[bar]	1.5	1.5	1.5	5	5
Vacuum resistance		unlimited				

Output signal / Supply					
Standard	2-wire: 4 20 mA / V _S = 8 32 V _{DC}				
Option 3-wire	3-wire: $0 \dots 10 \text{ V}$ / $V_8 = 14 \dots 30 \text{ V}_{DC}$				
	3-wire ratiometric: 10 90% von V / V _S = 2.7 5 V _{DC}				
Performance					
Accuracy 1,2	≤±0.5 % FSO				
Permissible load	2-wire: $R_{\text{max}} = [(V_S - V_{S \text{min}}) / 0.02 \text{A}] \Omega$				
	3-wire: $R_{min} = 10 \text{ k}\Omega$				
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	≤ ± 0.2 % FSO / year at reference conditions				
Measuring range	1 kHz				
¹ accuracy according to IEC 60770 – lin ² for pressure ranges ≤ 160 mbar accur	nit point adjustment (non-linearity, hysteresis, repeatability) acy is≤±1% FSO				
Thermal effects (Offset and Spar	n) / Permissible temperatures				
Thermal error	≤ ± 0.3 % FSO / 10 K in compensated range 0 70 °C				
Permissible temperatures	medium / electronics / environment / storage: -10 70 °C				
Electrical protection					
Short circuit protection	permanent 3-wire ratiometric: none				
Reverse polarity protection	no damage, but also no function				
Electromagnetic compatibility	Emission and immunity according to EN 61326				

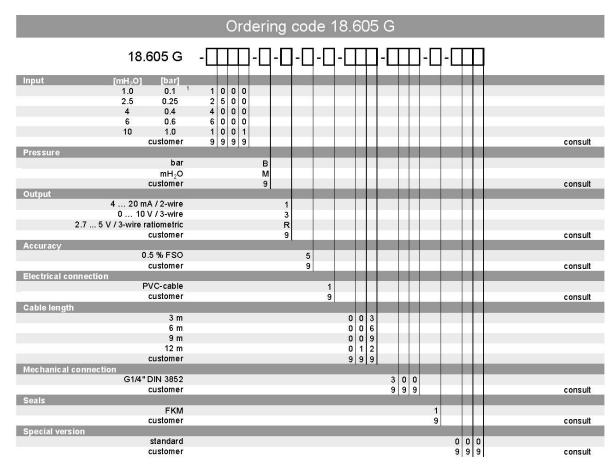
18.605 G

OEM-Pressure Transmitter

Technical Data







 $^{^{1}}$ for nominal pressure range \leq 160 mbar accuracy is 1 % FSO

