

26.607 G

Submersible OEM Probe

Applications

- ▶ domestic waste water
- ▶ environmental and building services engineering

Characteristics

- ▶ ceramic sensor
- ▶ accuracy 1 % FSO according to IEC 60770
- ▶ nominal pressure ranges from 0 ... 4 mH₂O up to 0 ... 40 mH₂O



Technical Data

Input pressure range						
Level	[mH ₂ O]	4	6	10	20	40
Overpressure	[mH ₂ O]	10	20	20	40	100
Burst pressure ≥	[mH ₂ O]	20	40	40	50	120

Output signal / Supply			
Standard	2-wire:	4 ... 20 mA	/ V _S = 8 ... 32 V _{DC}
Option 3-wire	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 ¹	≤ ± 1 % FSO
Permissible load	2-wire: R _{max} = [(V _S - V _{S min}) / 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

¹ accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)

Thermal effects (Offset and Span) / Permissible temperatures	
Thermal error	≤ ± 0.5 % FSO / 10 K in compensated range 0 ... 60 °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

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 (media wetted)	
Housing	stainless steel 1.4404 (316 L)
Seal (media wetted)	FKM
Diaphragm	ceramics Al_2O_3 96 %
Cable sheath	HDPE
Miscellaneous	
Weight (without cable)	approx. 85 g
Cable length	3 m, 6 m, 9 m or 12 m, others on request
Current consumption	2-wire: max. 25 mA 3-wire voltage: max. 7 mA
Operational life	100 million load cycles
Ingress protection	IP 68
CE-conformity	EMC Directive: 2014/30/EU
Wiring diagrams	
<p>2-wire-system (current)</p>	<p>3-wire-system (voltage)</p>
Pin configuration	
Electrical connection	cable colours (IEC 60757)
Supply +	WH (white)
Supply -	BN (brown)
Signal + (for 3-wire)	GN (green)
Shield	GYNE (green-yellow)
Dimensions (in mm)	

Ordering code 26.607 G

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