





OEM-Pressure Transmitter

Applications ▶ level measurement in water and

Characteristics

fuel oil tanks

- piezoresistive stainless steel sensor
- ► accuracy 0.5 % FSO according to IEC 61298-2
- 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: $4 20 \text{ mA}$ / $V_S = 8 32 V_{DC}$
Option 3-wire	3-wire: $0 \dots 10 \text{ V}$ / $V_S = 14 \dots 30 \text{ V}_{DC}$
	3-wire ratiometric: $10 \dots 90 \%$ of V_S / $V_S = 2.7 \dots 5 V_{DC}$
Performance	
Accuracy 1	$p_N > 160 \text{ mbar}$: $\leq \pm 0.5 \% \text{ FSO}$ $p_N \leq 160 \text{ mbar}$: $\leq \pm 1 \% \text{ FSO}$
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 61298-2 –	limit point adjustment (non-linearity, hysteresis, repeatability)
Thermal effects (offset and spar) / Permissible temperatures
Thermal error	\leq ± 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

Mechanical stability		
Vibration	20 g RMS / 10 2000 Hz according to DIN EN 60068-2-6	
Shock	500 g / 1 msec half sine according to DIN EN 60068-2-27	
Materials (media wetted)	adoctaing to Diff Elf Coods E Er	
Housing	stainless steel 1.4301 (304)	
Seals	FKM	
Diaphragm	stainless steel 1.4435 (316 L)	
Cable sheath	PVC (oil resistant)	
Miscellaneous	1 VO (Oli resistant)	
	annious 420 a (without applie)	
Weight Cable length	approx. 120 g (without cable) cable: 25 g / m	
Suitable for following media	3 m, 6 m, 9 m or 12 m; others on request	
Current consumption	water, fuel oil 2-wire: max. 25 mA 3-wire ratiometric: typ. 1.5 mA	
Current consumption	3-wire voltage: typ. 5 mA (short circuit current: max. 20 mA)	
Ingress protection	IP 68	
CE-conformity	EMC Directive: 2014/30/EU	
	LINIC DIRECTIVE. 2014/30/LO	
Wiring diagrams 2-wire-system (current)	3-wire-system (voltage)	
supply + supply -	Vs supply - Vs supply - Signal + Vs	
Pin configuration	·	
Electrical connections	cable colours (IEC 60757)	
Supply +	WH (white)	
Supply –	BN (brown)	
Signal + (only for 3-wire)	GN (green)	
Shield	GNYE (green-yellow)	
Dimensions (mm / in)		
	Ø5 [0.2] W24 [0.94] SW21 G1/4"	
	G1/4" DIN 3852 with PVC cable (with ventilation tube)	



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