

Submersible Pressure Transmitter

Model: MDL5

Applications

- Level, waste water, tank level measurement
- Brackish water and fuel tanks in shipbuilding
- Drinking water systems
- Pump and booster stations
- Oil and fuel storage tanks
- Process industry: Chemical/petro chemical, power stations, food and beverage, offshore oil rigs, pulp and paper, environmental technology, machine building and general plant construction



Special features

- Excellent load-cycle stability and shock resistance
- All stainless steel 316 sensor and housing
- Shipbuilding approval in accordance with GL
- Ingress protection IP 68 up to 984 ft (300 m)
- Scale ranges up to 0 ... 30 bar or 300 mH₂O



Description

■ Accuracy class	1%, 0.5%, 0.25%, 0.1%, (option)
■ Output signal	4...20mA, 0...20mA, 0...10VDC, 0...5VDC
■ Housing material	Stainless steel 316
■ Cable sheet	PVC, PUR, FBP, TPE - U
■ Permissible temperature	Ambient: -10 ... +60 °C
■ Permissible load	2-wire: $R_{max} = [(V_s - V_{s,min}) / 0.02 A] \Omega$ 3-wire: $R_{min} = 10 k\Omega$
■ 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	≤ ± 0.1 % FSO / year at reference conditions
■ Protection	IP68
■ Humidity	0...100%RH
■ Engineering units	Psi, bar, ftH ₂ O, mH ₂ O, ...
■ Range	0 ... 30bar to 0...300 mH ₂ O

**Input pressure range**

Standard pressure gauge (bar)	0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6	10	16	25	30
Level (mH ₂ O)	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	300
Overpressure (bar)	0.5	1	1	2	5	5	10	10	20	40	40	80	80	80

MDL5 Submersible Pressure Transmitter

ORDERING CODE	Example: MDL5	10	B	M	H	F	2	AC	U	50	CC	Note
Input Pressure												
XXXX		10										
Scale Range												
B - Bar			B									
M - mH ₂ O												
C - Customer												
Housing Material												
S - 316L Stainless steel												
M - Monel® 400				M								
H - Hastelloy												
C - Customer												
Diaphragm material												
S - 316L Stainless steel												
M - Monel® 400												
H - Hastelloy				H								
C - Customer												
Seals					F							
F - FKM												
E - EPDM												
W - All welded												
Output							2					
2 - 4...20 mA												
4 - 0...20 mA												
6 - 0...10 VDC												
8 - 1...5 VDC												
10 - 4...20mA Intrinsically safe												
C - Customer												
Accuracy								AC				
AT - 1% (std.)												
AC - 0.5%												
AS - 0.25%												
SS - 0.1%												
Electrical Connection												
P - PVC cable												
U - PUR cable								U				
F - FEP cable												
T - TPE - U cable												
C - customer												
Cable Length Standard in Meter												
XXX									50			
Options												
CC - Calibration certificate										CC		
AT - ATEX												
WA - One year warranty												
Other												





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