

# Submersible Pressure Transmitter

## Model: MDL5

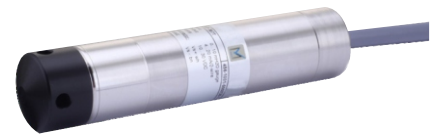
### Applications

- 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 mH<sub>2</sub>O



### 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 <sub>2</sub> O, mH <sub>2</sub> O, ...    |
| ■ Range                   | 0 ... 30bar to 0...300 mH <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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 - FKM						F						
E - EPDM												
W - All welded												
Output												
2 - 4...20 mA							2					
4 - 0...20 mA												
6 - 0...10 VDC												
8 - 1...5 VDC												
10 - 4...20mA Intrinsically safe												
C - Customer												
Accuracy												
AT - 1% (std.)												
AC - 0.5%								AC				
AS - 0.25%												
SS - 0.1%												
Electrical Conectin												
P - PVC cable												
U - PUR cable									U			
F - FEP cable												
T - TPE - U cable												
C - customer												
Cable Lengh Standard in Meter												
XXX										50		
Options												
CC - Calibration certificate											CC	
AT - ATEX												
WA - One year warranty												
Other												





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