Submersible Level Transmitter

MPM316W

Features

- Full stainless steel sealed construction;
- Submersible measurement;
- Constant current supply;
- Laser trimming compensating zero and span thermal error;
- Using high reliable and stable solid piezoresistive pressure cell;
- Water-proof and oil-proof cable.

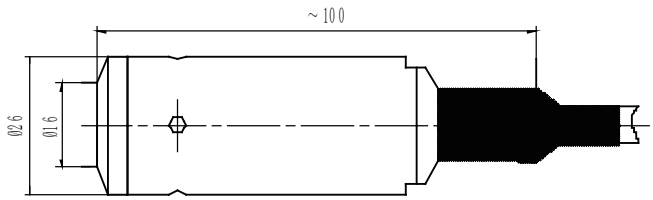
Introduction

MPM316W level transducer is made by build-in a high accurate and reliable OEM gauge sensor into stainless steel housing. The top steel cap could protect sensor diaphragm and let liquid media go through unobstructed. The cable which has vented tube in connects with housing sealed, making sensor connecting to the atmosphere to make sure measurement precise. The transducer could be widely used for city water supply and drainage, water or oil tank, hydrology, reservoir, riverway and ocean, etc.

Specifications

@1.5mADC, 25℃	
Pressure range	0~1m…200m H2O
Overpressure	1.5 times FS
Power supply	1.5mADC
Zero output	<±2mVDC
FS output	≥70mVDC or ≥25mVDC(range<2mH_2O)
Accuracy	±0.1%FS(min.) ±0.25%FS(typ.) ±0.5%FS(max.)
Long-term stability	±0.3%FS/year
Compensation temp.	0℃ ~50℃
Operation temp.	-10℃ ~70℃
Storage temp.	-20℃ ~85℃
Zero temp. coefficient	≤±0.02%FS/℃
FS temp. coefficient	≤±0.02%FS/℃
Housing	Stainless steel 1Cr18Ni9Ti
Diaphragm	Stainless steel 316L
O-ring	Viton
Cable	Φ7.2mm PVC
Response time (10%~90%)	≤1ms
Insulation resistor	100MΩ，100VDC
Protection	IP68

Outline Construction (Unit: mm)



Electrical Connection

Cable color	Connection
Black	+IN
Yellow(Green)	-IN
White	-IN
Red	+OUT
Blue	-OUT

Order Guide

MPM316W	Submersible level Transmitter		
	Range	Pressure range: 0~1m…200m H_2O	
	[0~XmH_2O]L	X:actual measurement range L: cable length suggested L-X=(1~2)m	
		Code	Others
		F1	Fixed flange
MPM316W	[0~3mH_2O]10	F1	the whole spec

Notes

1.5m cable is free of charge; the extra cable should be paid additionally.

2.For dimension and installation method of F1 fixed flange, please pay attention to MPM416W/WK/WRK submersible level transmitter datasheet.

3.If the sensor have four wires, no white wire, the rest wires definition remains the same.