

# bar MPM316W

Submersible Level Transmitter

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. The transducer could be widely used in industrial process control, flow measure, medical device, air dynamical measure and liquid pressure instrument or pneumatic plant, etc.



## SPECIFICATIONS

@1.5mADC, 25 <b>°C</b>		
Pressure range	0~1m200m H20	
Overpressure	1.5 times FS	
Power supply	1.5mADC	
Zero output	<±2mVDC	
FS output	≥70mVDC or ≥25mVDC(range<2mH₂0)	
Accuracy	±0.1%FS(min.) ±0.25%FS(typ.) ±0.5%FS(max.)	
Long-term stability	±0.3%FS/year	
Compensation temp.	0°C ~50°C	
Operation temp.	-10°C ~70°C	
Storage temp.	-20°C ~85°C	
Zero temp. coefficient	≤±0.02%FS/° <b>C</b>	
FS temp. coefficient	≤±0.02%FS/° <b>C</b>	
Housing	Stainless steel 1Cr18Ni9Ti	
Diaphragm	Stainless steel 316L	
0-ring	Viton	
Cable	Ф7.2mm PVC	
Response time (10%~90%)	≤1ms	
Insulation resistor	100MΩ,100VDC	
Protection	IP68	

## 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.

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## OUTLINE CONSTRUCTION (Unit: mm)



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

ELECTRICAL CONNECTION

THE

SENSORS & CONTROLS

## ORDER GUIDE

MPM	1316W	Submersible level Transmitter		
		Range	Pressure range: $0 \sim 1m200m H_20$	
		[0~XmH <sub>2</sub> 0]L	X:actual measurement range L: cable length suggested L-X= (1~2)m	
			Code	Others
			F1	Fixed flange
MPM	316W	[0 ~3mH <sub>2</sub> 0]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.

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