

# MPM4811 Level Transmitter



## Features

- Double standard output signal--level and temperature
- Reversed-polarity protection
- Level and temperature measurement
- Protection IP68
- Automatic production line for quality guarantee, stable and reliable

## Introduction

MPM4811 is full sealed submersible transmitter for level and temperature measurement with good quality. A high stable and reliable piezo-resistive pressure sensor and a Pt1000 temperature sensor are mounted with the high-performance signal processing circuit in the stainless steel housing. Advanced production technology and automatic production line ensure the stability of products, and good adaptation makes your device able to copy with various complex environments. It is suitable for level and temperature measurement and control in petroleum, chemical, power plant, city water supply and hydrology fields.

## Specifications

Range	1, 2, 5, 10, 20, 50, 100, 200m H <sub>2</sub> O; -20°C ...0°C ~10°C ...70°C ;
Overpressure	1.5 times FS
Accuracy	±0.5%FS (level); ±2°C (temperature);
Power Supply	12V~30V DC
Output Signal	4mA~20mA DC(level) + 4mA~20mA DC (temperature)
Stability	±0.2%FS/year
Zero thermal drift	±0.02%FS/°C
FS thermal drift	±0.05%FS/°C
Operation Temp	-10°C ~70°C
Storage Temp.	-20°C ~85°C
Electrical Connection	4-wire (level & temperature double output)
Load(Ω)	<(U-12V)/0.02A

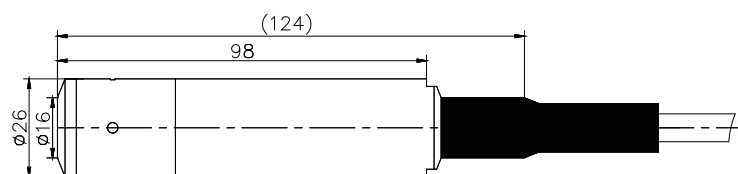
## Construction Material

- Housing: Stainless Steel 1Cr18Ni9Ti
- Sealed Ring: Viton
- Cable: φ7.2mm polyethylene or polyurethane cable
- Diaphragm: Stainless Steel 316L

## Electrical Connection

Transmitter is connected through cables

Wire Color	Electrical Definition
Black	Level Power Supply
Red	Level Output
Yellow	Temp. Power Supply
White	Temp. Output

**Outline Construction** (Unit: mm)**Order Guide**

MPM4811		Level Transmitter										
		Range	1, 2, 5, 10, 20, 50, 100, 200m H <sub>2</sub> O									
			-20℃...0℃ ~10℃...70℃									
		[0m~XmH <sub>2</sub> O[0℃ ~T℃ ]L	X: level measurement    T: temperature measurement L: cable length (Unit: meter, for users option)									
			Code	Output Signal								
		E	4mA~20mA DC									
								Code	Construction Material			
									Diaphragm	Pressure Port	Housing	
								22	SS 316L	SS	SS	
								25	Tantalum	SS	SS	
									Code	Others		
								Y <sub>c</sub>	MS200 water-proof connection box(suggested)			
								Y <sub>d</sub>	PD140 lightning-proof protection device			
	MPM4811	[0m~50m H <sub>2</sub> O]	[0℃ ~60℃ ]60	E	22	Y <sub>c</sub>	the whole spec.					

**Notes**

1. Please make sure the measured media is compatible with contacting material; please pay attention to media density in the measurement (except water);
2. Polyethylene and polyurethane cables are optional and charged for materials and length;
3. If the product is installed in "lightning and thunder" area, please note "lightning-proof" in the order. We suggest to choose Lightning-proof Protection Device to protect transmitter. Please be sure good grounding as well;
4. Under standard conditions (4°C , g=9.80665 m/s<sup>2</sup>), the corresponding relationship between 1mH<sub>2</sub>O and pressure is showed as follows:  
1mH<sub>2</sub>O = 0.1kgf/cm<sup>2</sup> = 9.80665kPa;
5. If the user has special requirement, please contact us freely.