

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 you 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.

Specification

- Range: 1, 2, 5, 10, 20, 50, 100, 200mH₂O; -20...0~10...80°C;
- Overpressure: 1.5 times FS;
- Accuracy: ±0.5%FS (level); ±2°C (temperature);
- Stability: ±0.2%FS/year
- Zero thermal drift: ±0.02%FS/°C
- FS thermal drift: ±0.05%FS/°C
- Operation Temp.: -20°C~80°C;
- Storage Temp.: -40°C~100°C
- Electric Connection: 4-wire (level & temperature double output)
- Power Supply: 12V~30V DC
- Output Signal: 4mA~20mA (level) + 4mA~20mA (temperature)
- Load(Ω): <(U-12V)/0.02A

Construction Material

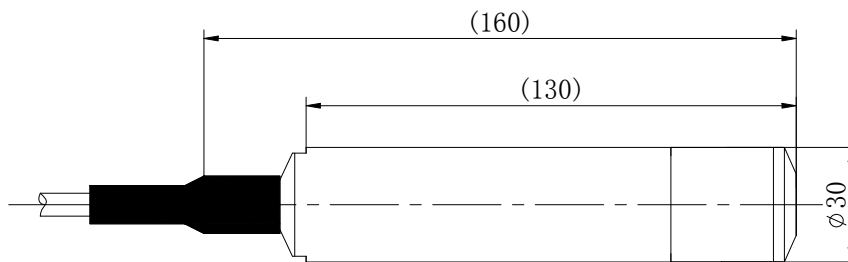
- Housing: Stainless Steel 1Cr18Ni9Ti
- Sealed Ring: Viton
- Cable: φ7.2mm polyethylene or polyurethane cable
- Diaphragm: Stainless Steel 316L

Electric Connection

Transmitter is connected through cables.

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

Outline Construction (Unit: mm)



Oder Guide

MPM4811	Level Transmitter						
	Range	1, 2, 5, 10, 20, 50, 100, 200mH ₂ O					
		-20...0~10...80°C					
	[0~XmH ₂ O][0~T°C]L	X: level measurement T: temperature measurement L: cable length (Unit: meter, for users option)					
		Code	Output Signal				
		E	4mA~20mA DC				
			Construction Material				
		Code	Diaphragm	Pressure Port	Housing		
		22	SS 316L	SS	SS		
		25	Tantalum	SS	SS		
			Code	Others			
			Ya	Aluminum connection box with display			
			Yc	MS200 water-proof connection box(suggested)			
			Yd	PD140 lightning-proof protection device			
MPM4811	[0~50mH ₂ O]	[0~60°C]	60	E	22	Yc	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 ($4\text{ }^{\circ}\text{C}$, $g=9.80665\text{ m/s}^2$), the corresponding relationship between $1\text{mH}_2\text{O}$ and pressure is showed as follows: $1\text{mH}_2\text{O} = 0.1\text{kgf/cm}^2 = 9.80665\text{kPa}$;
5. If the user has special requirement, please contact us freely.