



MPM4811 Level & Temperature Transmitter

Features

- Dual output signals - level and temperature
- Reverse-polarity protection
- Level and temperature measurement
- Ingress Protection IP68
- Modern automatic production line guarantees quality, stable and reliability

Introduction

MPM4811 is fully sealed submersible transmitter for level and temperature measurement. A highly stable and reliable piezo-resistive pressure sensor and a Pt1000 temperature sensor are combined with the high-performance signal processing circuit in a rugged stainless steel housing. Advanced production technology and automatic production line repeatability ensure the quality of product and precision part and build quality make them suitable for various challenging environments. It is ideal for level and temperature measurement and control in water networks, chemical storage, power plants, below ground drainage applications and general hydrology.



Specifications

Range: 1, 2, 5, 10, 20, 50, 100, 200m H₂O; -20°C...0°C to 10°C...70°C;

Over pressure: 1.5 times FS;

Accuracy: ±0.5%FS (level); ±2°C(temperature);

Power Supply: 12V to 30V DC

Output Signal: 4-20mA (level) + 4-20mA (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

Electric Connection: 4-wire (level & temperature double output)

Load(Ω): <(U-12V)/0.02A

Construction Materials

Housing: Stainless Steel 1Cr18Ni9Ti (304)

Cable: φ7.2mm polyethylene or polyurethane cable

Sealing O Ring: Viton

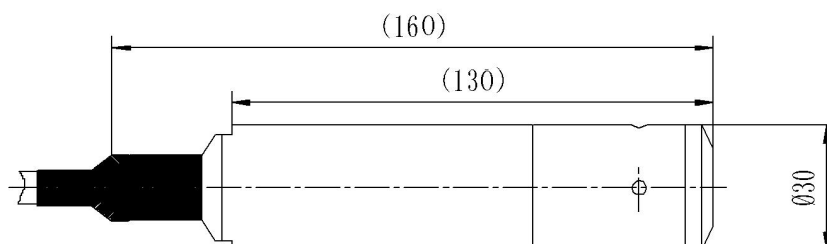
Diaphragm: Stainless Steel 316L

Electrical Connection

Transmitter cable color code.

Wire Color	Explanation
Black	-V DC
Red	Level Output 4-20
Blue	Temp Output 4-20
Yellow	+V DC



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

MPM4811		Level & TemperatureTransmitter				
		Range	1, 2, 5, 10, 20, 50, 100, 200m H ₂ O			
			-20℃...0℃~10℃...70℃			
	[0m~XmH ₂ 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 _c	MS200 water-proof connection box(suggested)			
		Y _d	PD140 lightning-proof protection device			
MPM4811 [0m~50m H ₂ O] [0℃~60℃]60 E 22 Y _c the whole spec.						

Notes

- Please make sure the measured media is compatible with all contacting materials; please pay attention to media density and advise us of the density at the time of order (except water)
- Polyethylene and polyurethane cables are both available and charged by material choice and length;
- If the product is installed in "storm zone", please note "lightning-proof" in the order. to protect transmitter. Please be sure that sound grounding is employed too.
- Under standard conditions (4℃, g=9.80665 m/s²), the corresponding relationship between 1mH₂O and pressure is shown as follows:

$$1\text{mH}_2\text{O} = 0.1\text{kgf/cm}^2 = 9.80665\text{kPa};$$
- If you have special requirements, please feel free to contact us