

Temperature/Level Dual Outputs Submersible Level Transmitter

MPM4811



Applications

- Petroleum industry
- Chemical engineering
- Power plant
- Urban water supply and drainage
- Hydrological exploration
- Temperature measurement and control

Features

- Level and temperature dual standard outputs
- Reversed-polarity protection
- Suitable for level and temperature measurement
- Automatic production line for quality guarantee, stable and reliable

Introduction

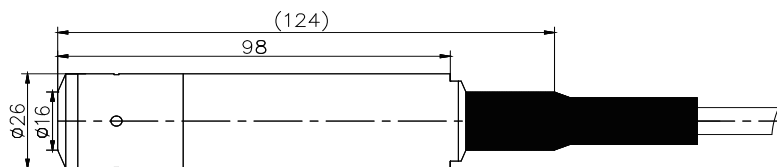
MPM4811 is full sealed submersible transmitter for level and temperature measurement with good quality. A high stable and reliable piezoresistive pressure sensor and a PT1000 temperature sensor are mounted with the high-performance signal processing circuit in the stainless steel housing. Advanced production technology and automatic production line ensure the stability of products, and good adaptation makes your device able to copy with various complex environments.

Specifications

Range	0mH ₂ O ~ 1mH ₂ O...200mH ₂ O
	-20°C ...0°C ~ 10°C ...70°C
Overpressure	≤2 times FS
Pressure Type	gauge, absolute
Accuracy	±1%FS (0mH ₂ O ~ 1mH ₂ O < X < 2mH ₂ O)
	±0.5%FS (2mH ₂ O ≤ X < 200mH ₂ O)
Temperature Accuracy	±2°C
Zero Thermal Drift	≤ ±0.02% FS/°C
Span Thermal Drift	≤ ±0.05% FS/°C
Long-term Stability	≤ ±0.2% FS/ year
Power Supply	12V~30V DC
Application Temperature	-20°C ~ 80°C
Storage Temperature	-20°C ~ 85°C
Vibration	10g, 55Hz ~ 2000Hz
Shock	100g, 11ms
Protection Rating	IP68
Weight	≤240g

Outline Dimensions

unit: mm



Electrical Connection

Color	-wire
red	+V
black	+OUT
blue	Tout

Materials

Isolated Diaphragm: SS 316L/Tantalum

Housing: SS 304/SS 316L

Cable: PE/PUR/PVC

Ordering Guide

MPM4811	Level Transmitter							
	Range	0mH ₂ O ~ 1mH ₂ O...200mH ₂ O						
		-20°C ...0°C ~ 10°C ...70°C						
	[0 ~ XmH ₂ O]	X: measured level, T: measured temperature, L: cable length recommended cable length L=X+(1~2)m						
	[0 ~ T°C]L							
	Code	Output Signal						
	E	4mA~20mA DC						
	Code	Material						
		Isolated Diaphragm			Housing			
	22	SS 316L			SS 304			
	24	SS 316L			SS 316L			
	25	Tantalum			SS 304			
	Code	Junction Box						
	null	no junction box						
	Yc	MS200 waterproof junction box (recommended)						
	Yd	PD140 lightning-proof junction box						
MPM4811	[0 ~ 350mH ₂ O]	[0 ~ 60°C]60	E	22	Yc	Complete Type Specification		

Ordering Notes

1. Cable material is available for 3 types: PE cable is provided as default; if other material is needed, please specify in the order.
2. The protection rating of junction boxes are IP65.
3. The measured media should be compatible with the wetted material and the measured media density needs to be specified (except water) on contract.
4. If the product is installed in a thunderstorm area, a lightning protection device is required and be sure that the product and the power are reliably earthed, which can efficiently prevent the level sensor from lightning damage.
5. If metrology verification certificate is needed or there are other requirements, please contact us and specify it in the order.