MPM4810 Level Transmitter
for High-Temperature Up To 125℃

Features

·Full welded stainless steel construction for submersible part; submersible measurement;

·Sensor and amplifier circuit are full welded in stainless steel housing; Protection IP68;

·The submersible transmitter is able to measure level and temperature of liquids up to 125 ℃ which is compatible with SS material in a long time, and output 2 standard analog signals at the same time;

·Digital temperature compensation and non-linearity correction techniques;

·Water-proof connection box is suggested for electric connection, it can be installed in a place easy for wiring;

· Cap on the transmitter probe is removable; prevent diaphragm from damaging, easy for regular cleaning.

Introduction

MPM4810 is high temperature level transmitter with high accuracy. It uses qualified high temperature pressure sensor as the pressure sensing element and thermal sensor for temperature measurement. It adopts high temperature special signal processing circuit for digital temperature compensation and non-linearity correction. The digital circuit processes the sensor signal into standard output signal by linear relationship between liquid level/temperature and output signal. With full welded stainless steel construction, MPM4810 is able to measure level and temperature measurement of liquids up to 125 ℃ which compatible with SS material in a long time. It is mainly used for level and temperature measurement in hot spring and under-ground hot water.

Specification

Range	Level: 0m~5m…200m H_2O Temperature：0℃~125℃
Overpressure	1.5 times FS
Pressure Type	Absolute
Accuracy	Level:±0.5%FS (including non-linearity, repeatability and hysteresis); Temperature:±2℃
Power Supply	10V~30V DC
Output Signal	4mA~20mA DC
Operation Temp.	0℃~125℃

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Temp. Compensation	0℃~125℃
Storage Temp.	-40℃~130℃
Zero Thermal Drift	±0.02%FS/℃
FS thermal Drift	±0.02%FS/℃
Protection	IP68
Load	≤(U-10)/0.02(Ω)
Long Term Stability	±0.35%FS/Year

MPM4810	High-Temperature Level Transmitter

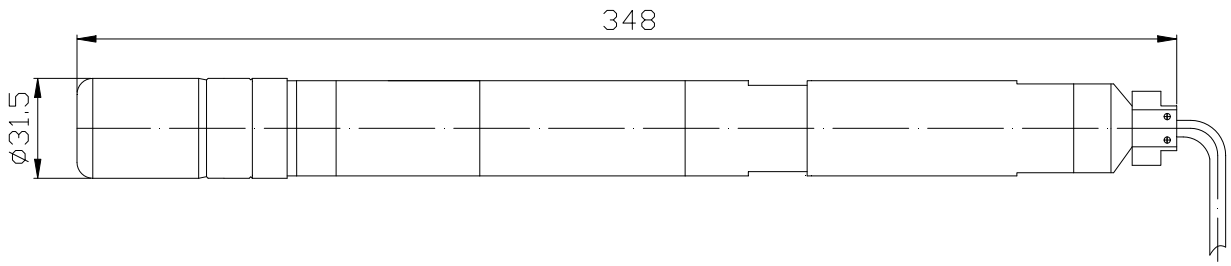
Construction Material

Cap: Stainless Steel304 Housing: Stainless Steel 304

Cable: Teflon high-temperature cables

Outline Dimension

Unit：mm



Electric Connection

Wire Color	Electric Definition
Black	V+
Red	Level Output: 4mA~20mA DC
Blue	Temp. Output: 4mA~20mA DC

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Order Guide

Range	Measuring Range: Level: 0m~5m…200m H_2O Temp.: 0℃~125℃
[0~XmH_2O]L	X: Actual measuring range L: cable length, suggested L-X=(1~2)m

Code	Output Signal
E	4mA~20mA DC

Code	Construction Material		
	Diaphragm	Pressure Port	Housing
22	钛合金	SS	SS

Code	Others
M_1	0~100% hand pointer indicator
Y_a	Aluminum connection box with display
Y_b	Aluminum connection box without display
Y_c	MS200 water-proof connection box(suggested)
Y_d	PD140 lightening-proof protection device
A	Absolute

MPM4810	[0~5m H_2O]5	E	22	Y_c A	the whole spec.

Oder Note

1.Please be sure the measured media shall be compatible with contacting material; please pay attention to media density in the measurement;

2. 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 to prevent transmitter from damaging;

3. If the user has special requirement, please feel free to contact our company.