MPM489WZ1 Level Transmitter



Features

- Integrated structure and adjustment free;
- IP68 Protection (sensor housing), and IP65 for connection box casing;
- Cost-effective, reliable and high longterm stability;
- Compact size: Φ19 diameter.

Introduction

MPM489WZ1 is a Φ19mm diameter fully sealed submersible level transmitter based on diffused-silicone principle. It consists of a high stable and reliable piezoresistive pressure sensing element and the special PCB component as well as the stainless steel housing. Its integrated construction and standardized signal output greatly facilitate the operation and automation control at work sites. The special vented cable being hermetically connected with the transmitter housing allows the transmitter for long term use in the liquids that are compatible with the transmitter construction material.

MPM489WZ1 Level Transmitter is with compact size, light weight and good long term stability. It is suitable for liquid level measurement and control for fields of medicine, metallurgy, power plants, mining, urban water supply and drainage, hydrology exploration etc.

Specification

| Pressure Range | 10m, 20m, 50m, 100m, 200m H₂O | | | | |
|-------------------|--|---|--|--|--|
| Overpressure | 1.5 times FS | | | | |
| Accuracy | ±0.5%FS | | | | |
| Stability error | Range>20mH₂O, ±0.2%FS/year; Range≤20mH₂O, 20mmH₂O | | | | |
| Temperature error | ±0.02%FS/°C (Zero) ±0.05%FS/°C (Span) | | | | |
| Operation temp. | -10°C ~70°C | | | | |
| Storage Temp. | -20℃ ~85℃ | | | | |
| Power Supply | 11V~28V DC | | | | |
| Output Signal | 4mA~20mA DC (2-wire) | | | | |
| Load (Ω) | < (U-11)/0.02 | | | | |
| Protection | IP68 (sensor part) IP65 (connection box) | | | | |
| | Housing: 1Cr18Ni9Ti | Sealing O-ring: Viton | | | |
| Wetted material | Diaphragm: SS 316L | Cable: Ф7.5mm PE cable with vented tube | | | |
| | Cap: Black nylon | Rubber casing: Chloroprene Rubber | | | |

Electrical Connection

| Wire Color | Electrical definition | | |
|------------|-----------------------|--|--|
| Black | +V | | |
| Red | 0V/+OUT | | |

Outline Construction (Unit: mm)



Order Guide

| MP | M489WZ1 | Level Transmitter | | | | | | | | |
|---|---------|------------------------|-------|--|---------------|-----------------------|---|---------------|---------|--|
| | | Range | 0m | 0m~10m200m H ₂ O | | | | | | |
| | | [0~XmH ₂ O] | JL X: | X: actual measured range L: cable length; suggested L-X=(1~2)m | | | | | | |
| | | | | Code | Output Signal | | | | | |
| | | | | E | 4mA~20mA DC | | | | | |
| | | | | | Code | Construction Material | | | al | |
| | | | | | Code | Diapl | hragm | Pressure port | Housing | |
| | | | | | 22 | SS | 316L | SS | SS | |
| | | | | | 24 | SS | 316L | SS 316L | SS 316L | |
| | | | | | 25 | Tantalum | | SS | SS | |
| | | | | | | Code Others | | | | |
| | | | | | | M_1 | M₁ 0%~100% hand pointer indicator Y_b Aluminum connection box without display Y_c MS200 water-proof connection box (Recommended options) Y_d PD140 lightening-proof protection device | | | |
| | | | | | | Y_b | | | | |
| | | | | | | Y _c | | | | |
| | | | | | | Y_d | | | | |
| | | | | | | Y _e | Connection box(with display or without display) | | | |
| | | | | | | F ₁ | Fixed flange | | | |
| | | | | | | | | | | |
| MPM489WZ1 [0~10mH₂O]12 E 22 Yc the whole spec | | | | | | | | | | |

Notes

- 1.Please be sure the measured media is compatible with contacting material; please note the media density in the measurement (except water);
- 2.If the product is installed in the thunderstorm area, we suggest to install the lightning-proof protection device to protect the transmitter. Please be sure good grounding
- 3.If the user has special requirement, please feel free to contact our company.