

# Deepwater Level Transmitter with Temperature and Level Dual Outputs

## MPM426WS



### Applications

- Metallurgical industry
- Power plant
- Mines
- Oil and gas in deep well
- Hydrological exploration

### Features

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

### Introduction

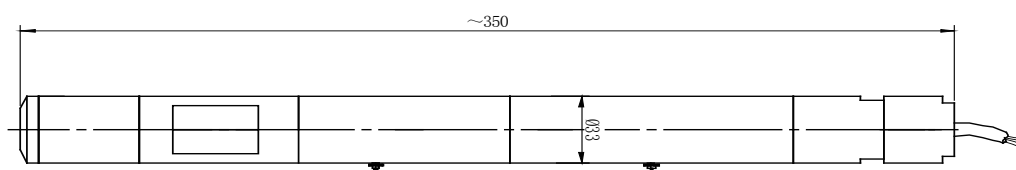
MPM426WS is a full welded, full sealed and submersible diffusion silicon instrument for level and temperature measurement. It uses a high stable and reliable piezo-resistive OEM pressure sensor and a PT1000 temperature sensor with a high-performance signal processing circuit mounted in stainless steel housing. Meanwhile, the product adopts double-way sealing with special rubber rings and the sealing and locking line are separated in order to improve the sealing degree. The cavity is filled with high-vacuum water-resistance and mineral oil-resistance sealing silicone so that the leading-out terminal can be fully sealed and insulated. It is especially suitable for measurement of oil and gas in deep well.

**MICROSENSOR**

|                         |   |
|-------------------------|---|
| Range                   | 0mH <sub>2</sub> O ~ 350mH <sub>2</sub> O...2000mH <sub>2</sub> O<br>-20°C ...0°C ~ 10°C ...80°C; |
| Overpressure            | ≤2 times FS or 2200mH <sub>2</sub> O (minimum value is valid)                                     |
| Pressure Type           | sealed gauge, absolute  |
| Accuracy                | ±0.5%FS (pressure); ±2°C (temperature)  |
| 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     | -40°C ~ 100°C   |
| Vibration               | 10g, 55Hz ~ 2000Hz  |
| Shock                   | 100g, 11ms  |
| Protection Rating       | IP68  |
| Weight                  | ≤220g   |

## Outline Dimensions

unit: mm



## Electrical Connection

|       |         |
|-------|---------|
| Color | 2-wire  |
| red   | +V      |
| black | 0V/+OUT |
| blue  | Tout    |

## Materials

Isolated Diaphragm: SS 316L/Tantalum

Housing: SS 304/SS 316L

Cable: PE/PUR/PVC

## Ordering Guide

|          |   |   |         |    |    |                             |
|----------|---|---|---------|----|----|-----------------------------|
| MPM426WS | Deepwater Level/Temperature Transmitter |   |         |    |    |                             |
|          | Range                                   | 0mH <sub>2</sub> O ~ 350mH <sub>2</sub> O...2000mH <sub>2</sub> O<br>-20°C ...0°C ~10°C ...80°C |         |    |    |                             |
|          | [0 ~ XmH <sub>2</sub> O]                | X: measured level, T: measured temperature, L: cable length (unit: m, specified by customers)   |         |    |    |                             |
|          | [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   |         |    |    |                             |
|          | Ya                                      | Aluminum junction box with display  |         |    |    |                             |
|          | Yc                                      | MS200 waterproof junction box<br>(recommended)  |         |    |    |                             |
|          | Yd                                      | PD140 lightning-proof junction box  |         |    |    |                             |
| MPM426WS | [0 ~ 350mH <sub>2</sub> 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.