# **Submersible Level Transmitter**

# **MPM436W**



# **Applications**

- Petroleum
- Chemical
- Power plant
- Urban water supply and drainage
- Hydrological exploration

#### **Features**

- Fully sealed stainless steel wetted parts, sensor and amplifier in IP68 housing
- Removable stainless steel cap, diaphragm protection, easy cleaning
- Measurement range: 0.2 mH<sub>2</sub>O, high pressure and shock resistance

### Introduction

Submersible Level Transmitter uses a highperformance pressure sensor to measure the liquid static pressure, proportional to the liquid level. The pressure is converted into a standard output signal through a dedicated signal conditioning circuit, providing a linear relationship between the output signal and liquid depth. With high accuracy and compact size, the transmitter can be directly immersed to measure the distance from the sensor tip to the liquid surface.

# **Specifications**

Range		
Overpressure	Refer to Measuring Range & Accuracy	
Accuracy		
Long-term stability	±5mmH <sub>2</sub> O/ year	
Thermal error	≤ ±0.15%FS/10°C	
Operating temperature	-20°C∼ 70°C (cable material: PE, PVC)	
	-20°C∼ 80°C (cable material: PUR)	
Storage temperature	-20°C∼ 85°C	
IP rating	IP68	
Weight	≤150g	



# **Measuring Range & Accuracy**

Unit	Measuring Range	Overpressure	Code	Accuracy
mH₂O	0 - 0.2	1	H0D2	±1%FS
	0 - 0.3	1	H0D3	
	0 - 0.4	1	H0D4	
	0 - 0.5	1	H0D5	
	0 - 0.6	2	H0D6	
	0 - 0.8	2	H0D8	
	0 - 1	2	H001	
	0 - 2	4	H002	
	0 - 3	7	H003	
	0 - 4	14	H004	±0.5%FS
	0 - 5	20	H005	10.570F3
	0 - 6	20	H006	
	0 - 7	20	H007	
	0 - 8	20	H008	
	0 - 9	20	H009	
	0 - 10	20	H010	

Test standard: GB/T 17614.1-2015/IEC60770-1:2010

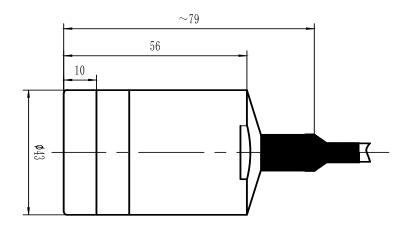
Ambient temperature: 20°C ± 5°C Relative humidity: 45%~75%

# **Output Signals**

Output signal	Supply voltage	Output type	Load resistance
4mA~20mA DC(E)	15V~28V DC	2-wire	≤(U-15)/0.02 (Ω)

# **Outline Construction**

Unit: mm



# **Electrical Connection**

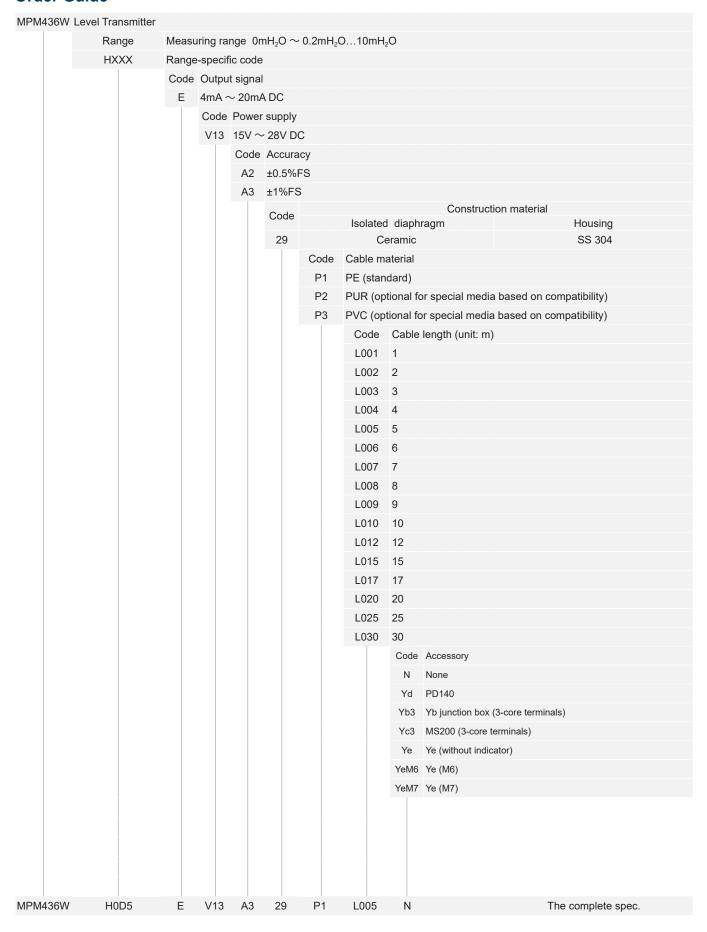
Color	2-wire
Red	+V
Black	0V/+ OUT

## **Construction Materials**

Isolated diaphragm: 96% Alumina ceramic

Housing: SS 304 Cable: PE/PUR/PVC

## **Order Guide**



#### **Notes**

- 1. When selecting the YeM6 or YeM7, only 4mA~20mA DC output is available, and requiring a power supply of ≥15VDC.
- 2. The ambient temperature of transmitter should be -20°C~ 70°C with YeM6 option, while -10°C~ 60°C with YeM7 option.
- 3. The IP rating of junction box is IP65.
- 4. The measured medium shall be compatible with the wetted parts materials, and the medium's density (excluding water) under measurement conditions must be specified.
- 5. In areas prone to thunderstorms, it is advisable to install lightning protection devices and ensure proper grounding of the product and power supply to minimize the risk of lightning damage to the transmitter.
- 6. If a metrology verification certificate is required, or there are any other special requirements, please consult with the MICROSENSOR and specify them in the order.

MICROSENSOR