РусАвтоматизация®

MICROSENSOR

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_2O, high pressure and shock resistance

Introduction

Submersible Level Transmitter uses a high-performance 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	Refer to Measuring Range & Accuracy
Overpressure	
Accuracy	
Long-term stability	±5mmH_2O/ 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
mH_2O	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	±0.5%FS
	0 - 0.8	2	H0D8	
	0 - 1	2	H001	
	0 - 2	4	H002	
	0 - 3	7	H003	
	0 - 4	14	H004	
	0 - 5	20	H005	
	0 - 6	20	H006	
	0 - 7	20	H007	
	0 - 8	20	H008	
	0 - 9	20	H009	
	0 - 10	20	H010	

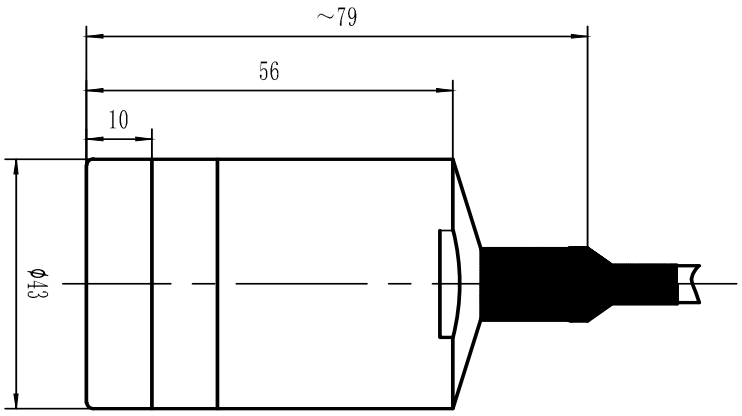
Test standard: GB/T 17614.1-2015/IEC60770-1:2010
Ambient temperature: 20°C ± 5°C
Relative humidity: 45%~75%

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

MPM436W	Level Transmitter								
	Range	Measuring range 0mH_2O ~ 0.2mH_2O…10mH_2O							
	HXXX	Range-specific code							
		Code	Output signal						
		E	4mA ~ 20mA DC						
			Code	Power supply					
			V13	15V ~ 28V DC					
				Code	Accuracy				
				A2	±0.5%FS				
				A3	±1%FS				
					Code	Construction material			
						Isolated diaphragm	Housing		
					29	Ceramic	SS 304		
						Code	Cable material		
						P1	PE (standard)		
						P2	PUR (optional for special media based on compatibility)		
						P3	PVC (optional for special media based on compatibility)		
							Code	Cable length (unit: m)	
							L001	1	
							L002	2	
							L003	3	
							L004	4	
							L005	5	
							L006	6	
							L007	7	
							L008	8	
							L009	9	
							L010	10	
							L012	12	
							L015	15	
							L017	17	
							L020	20	
							L025	25	
							L030	30	
								Code	Accessory
								N	None
								Yd	PD140
								Yb3	Yb junction box (3-core terminals)
								Yc3	MS200 (3-core terminals)
								Ye	Ye (without indicator)
								YeM6	Ye (M6)
								YeM7	Ye (M7)

MPM436W	H0D5	E	V13	A3	29	P1	L005	N	The complete spec.

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.