

φ17mm Compact Submersible Level Transmitter MPM489WZ4



Applications

- Pharmaceuticals
- Metallurgy
- Power plant
- Urban water supply and drainage
- Hydrological exploration

Features

- Integrated construction with no external adjustment required
- Outer diameter: Φ17mm

Introduction

MPM489WZ4 Level Transmitter is a small-diameter, fully sealed submersible level measurement instrument. It utilizes an OEM pressure sensor, which has undergone extensive stability and reliability testing, along with a high-accuracy dedicated circuit, all encapsulated in a stainless steel housing. Its integrated construction and standardized signal output simplify field installation and integration into automated control systems. The dedicated cable is securely sealed to the housing, ensuring long-term, stable operation in liquids that are compatible with the transmitter materials.

Specifications

Range	0mH ₂ O ~ 10mH ₂ O...200mH ₂ O
Overpressure	≤2 times FS
Accuracy	±0.5%FS
Zero thermal error	±0.02% FS/°C
Span thermal error	±0.05% FS/°C
Long-term stability	Range > 20mH ₂ O, ±0.2% FS/year
	Range ≤ 20mH ₂ O, 20mmH ₂ O/year
Operating temperature	-10°C ~ 70°C
Storage temperature	-20°C ~ 85°C
IP rating	IP68
Weight	≤ 110g

Output Signals

Output signal	Supply voltage	Output type	Load resistance
4mA~20mA DC(E)	11V~28V DC	2-wire	≤(U-11)/0.02(Ω)

Measuring Range & Accuracy

Gauge Pressure G				
Unit	Measuring Range	Accuracy	Overpressure	Code
mH ₂ O	0 ~ 10	±0.5%FS	20	H010
	0 ~ 15		40	H015
	0 ~ 20		40	H020
	0 ~ 25		70	H025
	0 ~ 30		70	H030
	0 ~ 35		70	H035
	0 ~ 40		140	H040
	0 ~ 45		140	H045
	0 ~ 50		140	H050
	0 ~ 60		140	H060
	0 ~ 70		140	H070
	0 ~ 80		200	H080
	0 ~ 90		200	H090
	0 ~ 100		200	H100
	0 ~ 110		400	H110
	0 ~ 120		400	H120
	0 ~ 150		400	H150
	0 ~ 200		400	H200

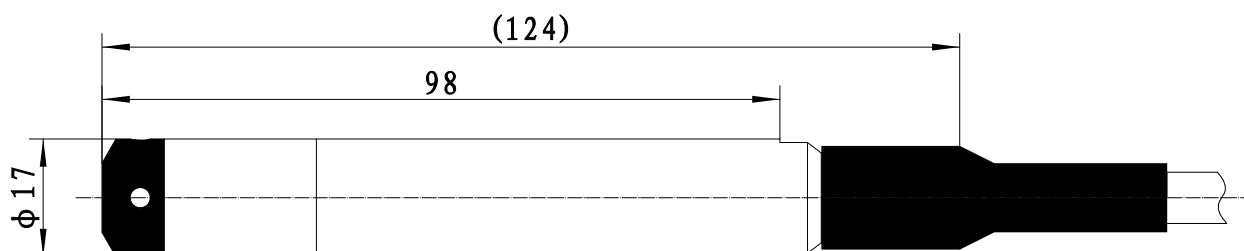
Test standard: GB/ T17614.1 -2015 -2015/IEC60770-1:2010

Ambient temperature: 20°C ± 5°C

Relative humidity: 45%~75%

Unit: mm

Outline Construction



Electrical connection

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

Construction Materials

Isolated diaphragm: SS 316L

Housing: Stainless steel 304/ Stainless steel 316L;

Cable: PE/PUR/PVC

Order Guide

MPM489WZ4 Compact Level Transmitter									
Range		Measuring range 0mH ₂ O ~ 10mH ₂ O...200mH ₂ O							
HXXX		Range-specific code							
Code		Output signal							
E		4mA ~ 20mA DC							
Code		Power supply							
V5		11V ~ 28V DC							
Code		Accuracy							
A2		±0.5%FS							
Code		Construction Material							
		Isolated diaphragm		Pressure port		Housing			
22		SS 316L		SS 304		SS 304			
24		SS 316L		SS 316L		SS 316L			
Code		Sensor sealing							
00		FKM							
01		EPDM							
Code		Cable material							
P1		PE							
P2		PUR							
P3		PVC							
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							
L035		35							
L040		40							
L045		45							
L050		50							
L060		60							
L070		70							
L080		80							
L090		90							
L100		100							
L110		110							
L120		120							
L150		150							
L200		200							
MPM489WZ4	H005	E	V5	A2	22	00	P1	L02	The complete spec.

Order Guide

Code	Accessory
N	None
Yb3	Yb junction box (3-core terminals)
Yc3	MS200 (3-core terminals)
Yd	PD140
Ye	Ye (without indicator)
YeM6	Ye (M6)
YeM7	Ye (M7)
MS01	Polymer plug
LJ8	Locking cable connector (flange optional)

N

The complete spec.

Notes

1. When ordering the transmitter with Ye (M6) or Ye (M7) indicator, power supply should be $\geq 16\text{V DC}$.
2. The ambient temperature of transmitter should be $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ with Ye (M6) indicator, while $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$ with Ye (M7) indicator.
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.