

MPM489W Liquid Level Transmitter

Introduction

MPM489W is full sealed submersible level transmitter. It is made by building in high stable and reliable OEM pressure sensor and high accurate circuit board into the stainless steel housing. Integrated construction and standard signal provide the user easy and convenient application in the local working place. The special cable connects with housing, can be immersed into the media for a long time.

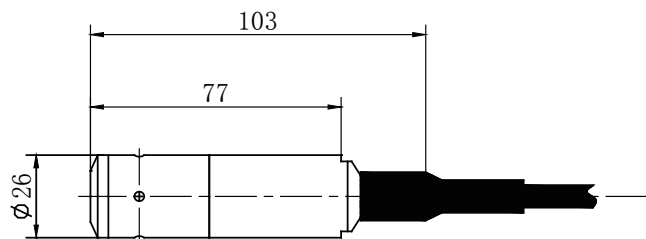
MPM489W level transmitter has compact size, light weight and good stability; it can be used for water or liquid measure and control of medicine, metallurgy, electricity, mine, city water supply and drainage and hydrology, etc.

Specification

- Range(FS): 1, 2, 5, 10, 20, 50, 100, 200mH2O
- Overpressure: 1.5 times FS
- Accuracy: $\pm 0.5\%$ FS
- Stability: range >10 mH2O, $\pm 0.2\%$ FS/year
- range ≤ 10 mH2O, 20mmH2O/year
- Thermal drift:

	zero	span
range >10 mH2O	$\pm 0.02\%$ FS/°C	$\pm 0.05\%$ FS/°C
range ≤ 10 mH2O	$\pm 0.05\%$ FS/°C	$\pm 0.05\%$ FS/°C
- Application temp. range: $-10^{\circ}\text{C} \sim 70^{\circ}\text{C}$; $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$ (Exia)
- Storage temp. range: $-20^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- Power supply: 11V~28VDC; 11V~28VDC; 5V DC
- Output signal: 4mA~20mADC(2-wire); 0~5/10VDC(3-wire)
0.5V~4.5V DC(3-wire)
- Load: $\leq (U-11)/0.02\Omega$ (2-wire); $\geq 10k$ (3-wire); $\geq 10k$ (3-wire)

Outline Construction (Unit: mm)



Electrical Connection

Wire color	2-wire	3-wire
Black	+V	+V
Red	0V/+OUT	+OUT
White	Null	GND



Features

- Integrated construction, unnecessary to do outer adjustment
- Sensor housing protection IP68, connection box protection IP65;
- Cost-efficient, high reliability and stability;
- RoHS and ATEX approved
- Explosion-proof product conforms to ExialICT6 Ga of Standard

Construction Material

- Housing: stainless steel 1Cr18Ni9Ti
- O-ring: Viton
- Rubber casing: NBR
- Cable: $\phi 7.5$ mm polyethylene cable
- Diaphragm: stainless steel 316L

Order Guide

MPM489W		Level Transmitter				
Range		Pressure range: 0m~1...200mH ₂ O				
[0~XmH ₂ O] L		X: actual measurement range L: cable length suggested L-X=(1~2)m				
Code		Power				
V ₁		24V DC				
V ₆		5V DC				
Code		Output signal				
E		4 mA~20mA DC				
F		1V~5V DC				
J		0V~5V DC				
V		0V~10V DC				
K		0.5V~4.5V DC				
Code		Construction material				
		Diaphragm	Port	Housing		
22		SS 316L	SS	SS		
24		SS 316L	SS 316L	SS 316L		
25		Tantalum	SS	SS		
Code		Others				
M ₁		0~100% indicator(Only 4mA~20mA DC)				
Y _b		Aluminum connection box without display				
Y _c		MS200 water-proof connection box (default)				
Y _d		PD140 lightning-proof protection device				
Y _e		Connection box(with display or without display)				
i		Intrinsic safe version Exia II CT6 Ga				
y		ATEX				
C ₁		M20×1.5 male				
C ₃		G1/2 male				
F ₁		Fixed flange				
MPM489W	[0~2mH ₂ O]5	V ₅	E	22	Y _c	the whole spec

Notes

1. Please pay attention that the media should be compatible with the contacted parts; please inform the density of the media (except water);
2. Two kinds of cable are optional, polyurethane and polyethylene. The default is polyethylene. Polyurethane cable is more flexible and durable; it can be selected due to the requirement;
3. When the product is used in thunder storm area, we suggest the user to use protection device to protect the product and power grounding reliably;
4. For special requirement, please feel free to contact us;
5. When ordering, please pay attention to 5V DC power supply. If the cable is connected out of line, the cable length should be less than 10m; When the order output is 0V to 10V DC product, the power supply is 15V to 28V DC;
6. 24V DC power supply (V1), see "Specification" for detail about Power supply range.



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