



MPM489W Level Transmitter

Features

- Rugged construction
- Sensor housing protection IP68, optional connection box protection IP65
- Cost-efficient, high levels of reliability and stability;
- RoHS and ATEX approved
- Explosion-proof product conforms to ExialICT6 Ga of the Standard



Introduction

MPM489W is a fully sealed submersible level transmitter. It is made by incorporating a stable and reliable OEM pressure sensor and highly accurate circuit board into the stainless steel housing. Integrated construction and standard signal types provide the user with a rugged and reliable sensor.

The cable can be selected as either polyurethane and polyethylene

MPM489W level transmitter has compact size, light weight and good stability, it can be used for measuring water or other compatible liquids in the control of beverages, metallurgy, electricity, mining, utility water supply, 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>10mH₂O, $\pm 0.2\%$ FS/year

range \leq 10mH₂O, 20mmH₂O/year

Thermal drift:	zero	span
range>10mH ₂ O	$\pm 0.02\%$ FS/°C	$\pm 0.05\%$ FS/°C
range \leq 10mH ₂ O	$\pm 0.05\%$ FS/°C	$\pm 0.05\%$ FS/°C

Application temp. range: -10°C-70°C -10°C-60°C (Exia)

Storage temp. range: -20°C-85°C

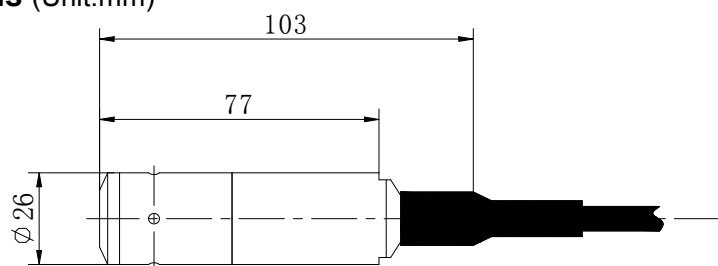
Power supply:	11V-28VDC	11V-28VDC	5V DC
Output signal:	4-20mADC(2-wire)	0-5/10VDC(3-wire)	0.5 - 4.5V DC(3-wire)
Load:	$\leq (U-11)/0.02\Omega$ (2-wire)	$\geq 10k$ (3-wire)	$\geq 10k$ (3-wire)

Construction Material

Housing: stainless steel 1Cr18Ni9Ti (304)	O-ring: Viton	Rubber casing: NBR
Cable: $\phi 7.5$ mm polyethylene cable	Diaphragm: stainless steel 316L	



Outline Dimensions (Unit:mm)



Electrical Connection

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

Ordering Guide

MPM489W	Submersible Level Transmitter										
	Range		Pressure range: 0 to 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 wetted parts. Please inform us of the density of the media (if other than water);
2. Two kinds of cable are available, polyurethane and polyethylene. The default is polyethylene. Polyurethane cable is more flexible and durable; it can be selected based on 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 requirements, please feel free to contact us;
5. When ordering, if 5V DC power supply is selected. If the cable is connected out of line, the cable length should be less than 10m; When the ordered output is 0V to 10V DC, the power supply required is 15V to 28V DC;
6. 24V DC power supply (V1), see "Specifications" for details about Power supply range.