# MPM489W Liquid

# **Level Transmitter**



#### **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 304

O-ring: Viton

Rubber casing: NBR

• Cable: φ7.5mm polyethylene cable

Diaphragm: stainless steel 316L

## 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 immerged 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, 200mH<sub>2</sub>O

• Overpressure: 1.5 times FS

Accuracy: ±0.5%FS

Stability: range>10mH<sub>2</sub>O, ±0.2%FS/year

range≤10mH<sub>2</sub>O, 20mmH<sub>2</sub>O/year

• Thermal drift: zero span range>10mH₂O ±0.02%FS/°C ±0.05%FS/°C range≤10mH₂O ±0.05%FS/°C ±0.05%FS/°C

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

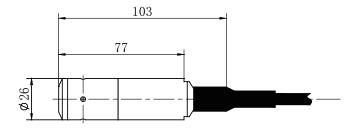
Storage temp. range: -20°C ~85°C

Power supply: 11V~28VDC; 11V~28VDC; 5V DC

Output signal: 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		



# **Order Guide**

MPM489W	Level Transmitter										
	Rar	nge	Pressure range: 0m~1200mH <sub>2</sub> O								
	[0~Xm	H₂O] L	X: actual measurement range L: cable length suggested L-X=(1~2)m								
			Cod	le	Power						
	V <sub>1</sub>	V <sub>1</sub> 24V DC									
			V <sub>6</sub>	i	5V DC						
					Code	Output	signal				
					Е	4 mA~2	20mA DC	<u> </u>			
					F	1V~5V	DC				
					J	0V~5V	DC				
			V	0V~10V DC							
						K 0.5V~4.5V DC					
		Code				Construction materia					
								hragm	Port	Housing	
				22				S 316L SS SS			
			24 SS 31			SS 316L	SS 316L				
						25		ntalum	SS	SS	
							Code	Others	andinatan(Only Ann A	00m / DO)	
							M <sub>1</sub>	<u> </u>		·	
							Y <sub>b</sub>		ater-proof connection	· •	
							Y <sub>d</sub>		htening-proof prote		
							Y <sub>e</sub> Connection box(with display or w				
							i		trinsic safe version Exia II CT6 Ga		
							у				
							 C <sub>1</sub>	M20×1.5	male		
							C <sub>3</sub>	G1/2 male	 e		
							F <sub>1</sub>	Fixed flan	ge		
MPM489W	[0~2m	H <sub>2</sub> O]5	V,	5	E	22	Y <sub>C</sub>		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 endurable; 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.