

bar **MPM489WZ1**
Level Transmitter

MPM489WZ1 is a Ø19mm diameter fully sealed submersible level transmitter based on diffused-silicone principle. It consists of a high stable and reliable piezoresistive pressure sensing element and the special PCB component as well as the stainless steel housing. Its integrated construction and standardized signal output greatly facilitate the operation and automation control at work sites. The special vented cable being hermetically connected with the transmitter housing allows the transmitter for long term use in the liquids that are compatible with the transmitter construction material.

MPM489WZ1 Level Transmitter is with compact size, light weight and good long term stability. It is suitable for liquid level measurement and control for fields of medicine, metallurgy, power plants, mining, urban water supply and drainage, hydrology exploration etc.



MICROSENSOR
AUTHORIZED DISTRIBUTOR

FEATURES

- Integrated structure and adjustment free;
- IP68 Protection (sensor housing), and IP65 for connection box casing;
- Cost-effective, reliable and high longterm stability;
- Compact size: Ø19 diameter.

SPECIFICATION

Pressure Range	10m, 20m, 50m, 100m, 200m H ₂ O	
Overpressure	1.5 times FS	
Accuracy	±0.5%FS	
Stability error	Range>20mH ₂ O, ±0.2%FS/year; Range≤20mH ₂ O, 20mmH ₂ O	
Temperature error	±0.02%FS/°C (Zero) ±0.05%FS/°C (Span)	
Operation temp.	-10°C ~70°C	
Storage Temp.	-20°C ~85°C	
Power Supply	11V~28V DC	
Output Signal	4mA~20mA DC (2-wire)	
Load (Ω)	< (U-11)/0.02	
Protection	IP68 (sensor part) IP65 (connection box)	
Wetted material	Housing: 1Cr18Ni9Ti	Sealing O-ring: Viton
	Diaphragm: SS 316L	Cable: Ø7.5mm PE cable with vented tube
	Cap: Black nylon	Rubber casing: Chloroprene Rubber

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ELECTRICAL CONNECTION

Wire Color	Electrical definition
Black	+V
Red	0V/+OUT

OUTLINE CONSTRUCTION (Unit: mm)



ORDER GUIDE

MPM489WZ1		Level Transmitter				
Range		0m~10m...200m H ₂ O				
[0~XmH ₂ O]L		X: actual measured range L: cable length; suggested L-X=(1~2)m				
Code		Output Signal				
E		4mA~20mA DC				
Code		Construction Material				
		Diaphragm	Pressure port	Housing		
22		SS 316L	SS	SS		
24		SS 316L	SS 316L	SS 316L		
25		Tantalum	SS	SS		
Code		Others				
M ₁		0%~100% hand pointer indicator				
Y _b		Aluminum connection box without display				
Y _c		MS200 water-proof connection box (Recommended options)				
Y _d		PD140 lightning-proof protection device				
Y _e		Connection box(with display or without display)				
F ₁		Fixed flange				
MPM489WZ1	[0~10mH ₂ O]12	E	22	Yc	the whole spec	

NOTES

1. Please be sure the measured media is compatible with contacting material; please note the media density in the measurement (except water);
2. If the product is installed in the thunderstorm area, we suggest to install the lightning-proof protection device to protect the transmitter. Please be sure good grounding as well;
3. If the user has special requirement, please feel free to contact our company.