MPM489WZ4 Submersible

Level Transmitter



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: Φ17 diameter.

Introduction

MPM489WZ4 is a Φ17mm 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.

MPM489WZ4 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.

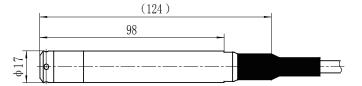
Specification

Pressure Range	10m, 20m, 50m, 100m, 200m H ₂ O				
Overpressure	1.5 times FS				
Accuracy	±0.5%FS				
Stability error	Range>20mH₂O, ±0.2%FS/year; Range≤20mH₂O, 20mmH₂O				
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)				
	Housing: stainless steel 304	Sealing O-ring: Viton			
Wetted material	Diaphragm: SS 316L	Cable: Φ7.5mm PE cable with vented tube			
	Cap: Black nylon	Rubber casing: Chloroprene Rubber			

Electrical Connection

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

Outline Construction (Unit: mm)



Order Guide

MP	M489WZ4	Level Transmitter							
		Range	0m~10m200m H ₂ O						
		[0~XmH ₂ O]L	X: actu	X: actual measured range L: cable length; suggested L-X=(1~2)m					
			Code	Output Signal 4mA~20mA DC					
			Е						
				Construction Material				erial	
				Code	Diap	hragm	Pressure port	Housing	
				22	SS	316L	SS	SS	
				24	SS	316L	SS 316L	SS 316L	
				25	25 Tantalum		SS	SS	
					Code	Others			
					M ₁ 0%~100% hand pointer indicator			ator	
					Y _b	MS200 water-proof connection box (Recommended options) PD140 lightening-proof protection device connection box(with display or without display)			
					Y _c				
					Y _d				
					Y _e				
					F ₁				
MPN	1489WZ4	0~10mH ₂ O]12	E	22	Y _C		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.