

φ17mm Small Size Submersible Level Transmitter MPM489WZ4



Applications

- Medicine
- Metallurgical industry
- Power plant
- Urban water supply and drainage
- Hydrological exploration

Features

- All-in-one structure, no external adjustment required
- Outer diameter φ17mm small volume products

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.

Specifications

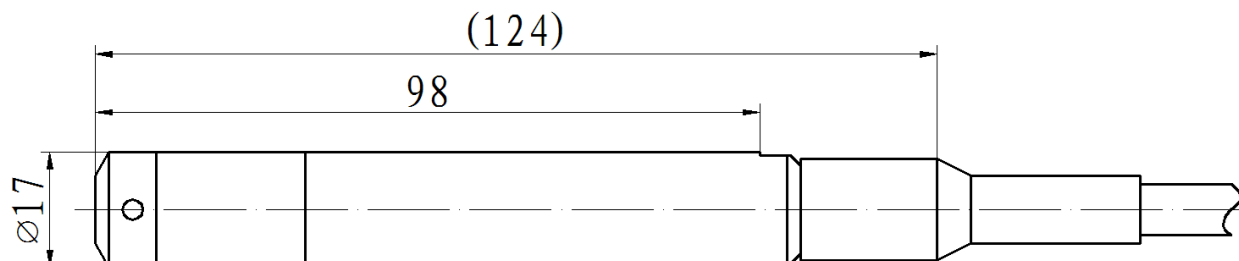
Range	0mH ₂ O ~ 10mH ₂ O...200mH ₂ O
Overpressure	≤ 2 times FS
Accuracy	±0.5%FS
Zero Thermal Drift	±0.02% FS/°C
Span Thermal Drift	±0.05% FS/°C
Long-tem Stability	Range> 20mH ₂ O, ±0.2% FS/ year
	Range≤ 20mH ₂ O, 20mmH ₂ O/ year
Application Temperature	-10°C ~ 70°C
Storage Temperature	-20°C ~ 85°C
Protection Rating	IP68
Weight	≤110g

Output Signals

Output Signal	Power Supply	Output Format	Load Resistance
4mA~20mA DC(E)	11V~28V DC	2-wire	$\leq(U-11)/0.02(\Omega)$

Outline Dimensions

unit: mm



Electrical Connection

Color	2-wire
Red	+V
Black	0V/+OUT

Material

Isolated Diaphragm: SS 316L/Tantalum

Housing: SS 304/SS 316L

Cable: PE/PUR/PVC

Ordering Guide

MPM489WZ4	Small Size Level Transmitter						
	Range	Measurement Rang 0mH ₂ O ~ 10mH ₂ O...200m H ₂ O					
	[0 ~ XmH ₂ O]L	X: actual measured range, L: cable length, recommended cable length L=X+(1~2)m					
	Code	Output Signal					
	E	4mA~20mA DC					
	Code	Material					
		Isolated Diaphragm			Housing		
	22	SS 316L			SS 304		
	24	SS 316L			SS 316L		
	25	Tantalum			SS 304		
	Code	Junction Box					
	null	no junction box					
	Yb	Aluminum junction box without display					
	Yc	MS200 waterproof junction box					
	Yd	PD140 lightening-proof junction box					
	Ye	junction box (with or without display)					
	Code	Display Indicator ^① (for Ye junction box only)					
	null	no display indicator					
	M1	0% ~ 100% linear indicator					
	M6	4 digits LED digital indicator					
	M7	4 digits LCD digital indicator					
	Code	Process Connection					
	F1	fixed flange					
MPM489WZ4	[0 ~ 5mH ₂ O]6	E	22	Ye	M6	F1	Complete Type Specification

Ordering Notes

- "①" digital display is available for Ye junction box , it only supports 4mA~20mA DC current output.
- When ordering the transmitter with M6 or M7 indicator, power supply should $\geq 16V$ DC.
- Environmental temperature should be $-20^{\circ}C \sim 70^{\circ}C$ when ordering the transmitter with M6 indicator, environmental temperature should be $-10^{\circ}C \sim 60^{\circ}C$ when ordering the transmitter with M7 indicator, indicator setting can refer to our indicator lectotype, which can be found on our company's website.
- Cable material is available for 3 types: PE cable is provided as default; if other material is needed, please specify in the order.
- The protection rating of junction boxes are IP65.
- The measured media should be compatible with the wetted material and the measured media density except water needs to be specified on contract.
- If the product is installed in a thunderstorm area, a lightning protection device is required and be sure that the product and the power are reliably earthed, which can efficiently prevent the level sensor from lightning damage.
- If metrology verification certificate is needed or there are other requirements, please contact us and specify it in the order.