

φ22mm Small Size Submersible Level Transmitter MPM489WZ3



Applications

- Petroleum industry
- Chemical industry
- Power plant
- Urban water supply and drainage
- Hydrological exploration

Features

- The top shell cap is removable to prevent accidental damage to the diaphragm and facilitate regular cleaning
- φ22mm small size

Introduction

MPM489WZ3 uses high performance pressure sensor as sensing element, It could measure liquid static pressure that is positive proportional to level depth precisely, and transform pressure signal into standard current/voltage signal output by amplifier circuit to measure accurate level depth. The product has high accuracy, compact size, easy installation, can be submersible into the liquid directly to measure level and media temperature from transmitter bottom to the liquid surface.

Specifications

Range	0mH ₂ O ~ 1mH ₂ O...7mH ₂ O
Overpressure	≤ 2 times FS
Accuracy	±1%FS
Long-tem Stability	±0.5% FS/year
Compensated Temperature	0°C ~ 50°C
Application Temperature	-20°C ~ 70°C (cable material: PE, PVC)
	-20°C ~ 80°C (cable material: PUR)
Storage Temperature	-20°C ~ 85°C
Protection Rating	IP68
Weight	≤150g

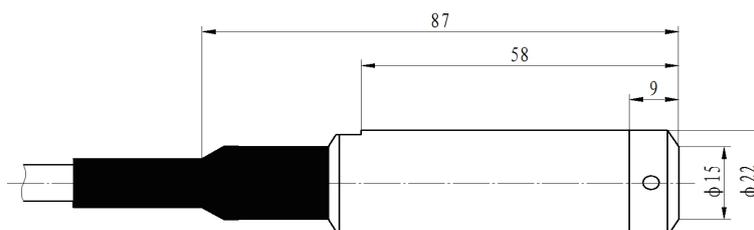
Output Signals

Output Signal	Power Supply	Output Format	Load Resistance
4mA~20mA DC(E)	11V~28V DC	2-wire	$\leq(U-11)/0.02(\Omega)$
0.5V~4.5V DC(K2)		3-wire	$\geq 10k\Omega$

Note: a temperature output can be attached when voltage output.

Outline Dimensions

unit: mm



Electrical Connection

Color	2-wire	3-wire
Red	+V	+V
White	null	+OUT
Black	0V/+OUT	GND
Blue (for temperature output only)	null	Tout (+)
Brown (for temperature output only)	null	Tout (-)
Green (for temperature output only)	null	EARTH

Material

Isolated Diaphragm: SS 316L

Housing: SS 304/SS 316L

Cable: PE/PUR/PVC

Ordering Guide

MPM489WZ3	Small Size Level Transmitter						
	Range	Measurement Range 0mH ₂ O ~ 1mH ₂ O...7m 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				
		K	0.5V~4.5V 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 lightning-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				
		null	no special process connection				
		F1	fixed flange				
MPM489WZ3	[0 ~ 5mH ₂ O]6	E	22	Ye	M6	F1	Complete Type Specification

Ordering Notes

- " ① ", only 4mA~20mA output product is available when Ye junction box with digital indicator.
- 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.