

# MPM489WZ3 Submersible Level Transmitter

## 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. It can be widely used for water and other liquid level measurement and control in fields of petroleum, chemi-industry, power station, city water supply and drainage and hydrology etc.

## Specification

Pressure Range	1m, 2m, 5m, 7m H <sub>2</sub> O	
Overpressure	1.5 times FS	
Accuracy	±1%FS	
Stability error	±0.5% FS/ year	
Transmitting	2-wire	3-wire
Power Supply	11V~28V DC	11V~28V DC
Output Signal	4mA~20mA DC	0.5V~4.5V DC
Load (Ω)	< (U-11)/0.02	> 100k
Material contacting with media	Housing: stainless steel 304	Seal parts: Viton
	Diaphragm: SS 316L	Cable: Φ7.5mm PUR cable with vent tube
	Cap: Nylon	Rubber casing: Chloroprene Rubber
Operation temp.	-20℃ ~60℃	
Compensated Temp.	0℃ ~50℃	
Storage Temp.	-20℃ ~70℃	
Protection	IP68 (sensor part) IP65 (connection box)	

## Features

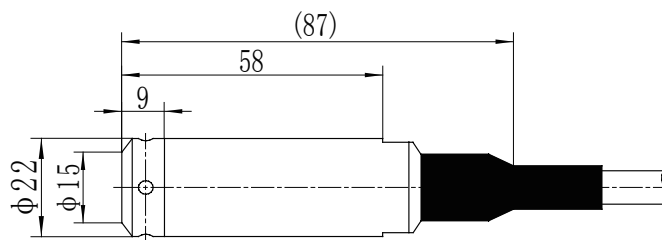
- Full sealed stainless steel construction for submersible part; sensor and amplifier circuit are all in the sealed stainless steel housing; IP68 Protection;
- Water-proof connection box is recommended; install it in a place easy for electric connection; IP65 Protection;
- Removable top Nylon cap; prevent diaphragm from damage and easy for cleaning;
- Compact size: Φ22 diameter.



## Electrical Connection

Wire Color	2-wire	3-wire
Black	+V	+V
Red	+OUT	+OUT
White	Null	GND
Blue(Only with temperature signal)	Null	TEMP(+)
Brown(Only with temperature signal)	Null	TEMP(+)
Green(Only with temperature signal)	Null	DRAIN

## Outline Construction (Unit: mm)



## Order Guide

MPM489WZ3		Submersible Level Transmitter							
		Range		1m, 2m, 5m, 7m H <sub>2</sub> O					
		[0~XmH <sub>2</sub> O]L		X: actual measured range L: cable length; suggested L-X=(1~2)m					
		Code		Output Signal					
		E		4mA~20mA DC					
		K		0.5V~4.5V DC					
		Code		Construction Material					
				Diaphragm		Pressure port		Housing	
				22		SS 316L		SS	
				24		SS 316L		SS 316L	
		Code		Code		Others			
				M <sub>1</sub>		0%~100% hand pointer indicator(Current output only)			
				Y <sub>b</sub>		Aluminum connection box without display			
				Y <sub>c</sub>		MS200 water-proof connection box			
				Y <sub>d</sub>		PD140 lightning-proof protection device			
				Y <sub>e</sub>		connection box(with display or without display)			
				F <sub>1</sub>		Fixed flange			
				T		With temperature sensor(Voltage output signal only)			
MPM489WZ3		[0~3mH <sub>2</sub> O]5		E	22	Y <sub>c</sub>	the whole spec		

## Notes

1. Please be sure the measured media is compatible with contacting material; please pay attention to media density in the measurement (except water);
2. If the output signal is a voltage signal, if you want to receive the temperature signal, select "T" in the product specification.
3. If the product is installed in "lightning and thunder" area, please note "lightning-proof" in the order. We suggest to install a Lightning-proof Protection Device to protect transmitter. Please be sure good grounding as well;
4. If the user has special requirement, please feel free to contact our company.