

# MPM426WPF Level Transmitter



## Feature

- High Reliability, Safe and Easy to Use
- Short Circuit and Reverse Polarity Protection
- Automatic Production Line Ensures High Quality and Stability
- Stainless Steel 316L Housing and IP68

## Introduction

The MPM426WPF level transmitter is a fully welded, submersible level measurement device. It uses a piezoresistive OEM pressure sensor with proven long-term stability and reliability, and a special digital compensation circuit that are built into a stainless steel housing. The integrated structure and standardized output signal make it easy for the on-site use and automatic control. The vented cable and the housing are hermetically sealed, can be used in the liquids that are compatible with the sensor material for a long time. It is mainly applied for the pressure measurement and control of petrochemicals.

## Specification

Level range: 0mH<sub>2</sub>O~2mH<sub>2</sub>O/3.5mH<sub>2</sub>O/5mH<sub>2</sub>O  
/10mH<sub>2</sub>O/20mH<sub>2</sub>O/35mH<sub>2</sub>O

Pressure Type: Gauge

Overload: 1.5 ×FS

Power Supply: 9V~28V DC or 5V DC

Output Signal: 0.5V~4.5V DC (3-wire)

Accuracy<sup>①</sup>: ±1% FS( ≤ 3.5mH<sub>2</sub>O)  
±0.5% FS(>3.5mH<sub>2</sub>O)

Total Error<sup>②</sup>: ±2% FS( ≤ 3.5mH<sub>2</sub>O, -20℃ ~75℃ )  
±1.5% FS (> 3.5mH<sub>2</sub>O, -20℃ ~75℃ )

Long-term Stability: ≤ ±0.3%FS/year

Working Temperature: -20℃ ~80℃

Storage Temperature: -20℃ ~85℃

Insulation Resistance: 100V@100MΩ

Load Resistance: ≥ 10kΩ

Protection Rating: IP68

Weight: about 260g (Including no cable), cable is  
about 70g/m

- ①: Test at normal temperature (reference condition  
20℃ ±5℃ ), non-linear;
- ②: The accuracy includes non-linearity, repeatability  
and hysteresis within the working temperature  
range.

## Construction Material

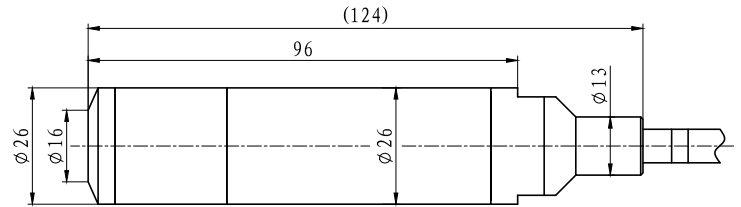
Housing: stainless steel 316L

Diaphragm: stainless steel 316L

Cable: φ7.5mm Polyurethane Cable

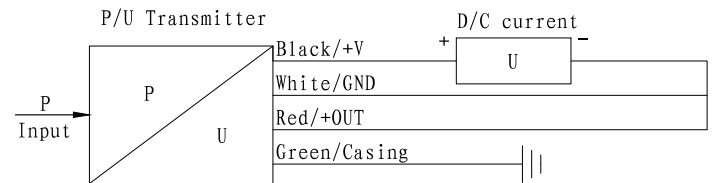
## Outline Dimension

(Unit: mm)



## Electrical Connection

Electrical Connection	Wire color
+V	BLACK
+OUT	RED
GND	WHITE
Casing	GREEN



MPM426WPF Wiring Diagram

## Order Guide

MPM426WPF		Level Transmitter											
		Range		0mH <sub>2</sub> O ~ 2mH <sub>2</sub> O/3.5mH <sub>2</sub> O/5mH <sub>2</sub> O/10mH <sub>2</sub> O/20mH <sub>2</sub> O/35mH <sub>2</sub> O									
		[0 ~ XmH <sub>2</sub> O]L		X: the actual measured pressure L: cable length suggested L-X= (1~2) m									
		Code		Power supply									
		V1		9V ~ 28V DC									
		V6		5V DC (Suggested cable length≤10m)									
		Code		Output signal									
		K		0.5V ~ 4.5V DC									
		Code		Material									
				Diaphragm		Pressure Port		Housing					
		24		SS316L		SS316L		SS316L					
		Code		End Cap									
		D1		Ø26mm stainless steel cap with 4×φ2mm holes at the cap bottom									
		D2		Ø26mm black nylon cap with 4×φ2mm holes at the cap side									
		Code		Others									
		G		Gauge									
MPM426WPF	[0 ~ 10mH <sub>2</sub> O]5	V1	K	24	D1	G	the whole spec						

## Order Notes

1. The measured media should be compatible with the sensor material, and please provide the density of the media in the measurement (except water);
2. For sensors with 5VDC as the power supply, the cable length suggested should be ≤10m;
3. Default end cap is D1 unless specified;
4. If the user has special requirements, please feel free to contact us.