

# MPM426WPC 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 Teflon® Jacketed Cable
- High Corrosion Resistance and Hermetically-sealed Structure, IP68

## Introduction

The MPM426WPC 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 Teflon® jacketed cable and the housing are hermetically sealed, which 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 multiple chemicals.

## 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: 1.5FS

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

Output Signal<sup>①</sup>: 0.5V~4.5V DC (3-wire), with  
temperature signal

Accuracy<sup>②</sup>:  $\pm 1\%$  FS(  $\leq 3.5\text{mH}_2\text{O}$  )  
 $\pm 0.5\%$  FS(>3.5mH<sub>2</sub>O)

Total Error<sup>③</sup>:  $\pm 2\%$  FS(  $\leq 3.5\text{mH}_2\text{O}$ , -20℃ ~75℃ )  
 $\pm 1.5\%$  FS (> 3.5mH<sub>2</sub>O, -20℃ ~75℃ )

Long-term Stability:  $\leq \pm 0.3\%$ FS/Year

Working Temperature: -30℃ ~ 80℃

Storage Temperature: -40℃ ~ 100℃

Insulation Resistance: 100V@100MΩ

Load Resistance:  $\geq 10\text{k}\Omega$

Protection Rating: IP68

Weight: about 260g (Including no cable), cable is about  
94g/m

- ①: The sensors that use 5VDC as power supply only supports the voltage output, no temperature output is available;
- ②: Test at normal temperature (reference condition 20℃  $\pm 5^\circ\text{C}$  ), non-linear;
- ③: The accuracy includes non-linearity, repeatability and hysteresis within the working temperature range.

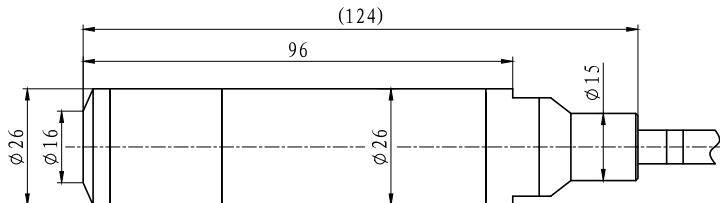
## Construction Material

Housing: stainless steel 316L

Diaphragm: stainless steel 316L

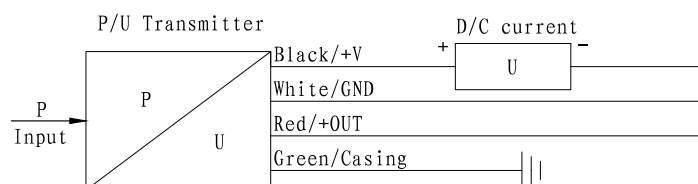
Cable:  $\phi 7.5\text{mm}$  Teflon<sup>®</sup> Jacketed Cable

## Outline Dimension (Unit: mm)



## Electrical Connection

Electrical Connection	Wire Color	
	9V~28V DC	5V DC
+V	BLACK	BLACK
+OUT	RED	RED
GND	WHITE	WHITE
Casing	GREEN	GREEN
T+	BLUE	
T-	BROWN	



MPM426WPC Wiring Diagram (Voltage Output Signal)

## Order Guide

MPM426WPC		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(only available for the voltage output, and the suggested cable length≤10m)								
			Code	Output signal								
			K	0.5V ~ 4.5V DC								
			T	Temperature Output(Only available for sensors work at 9V ~ 28V DC supply power)								
						Code	Material					
							Diaphragm		Pressure Port		Housing	
							24		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		
MPM426WPC	[0 ~ 5mH <sub>2</sub> O]6	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, only voltage output is available, no temperature output and the cable length suggested should be ≤10m;
3. Default end cap is D1 unless specified;
4. The cable length is selected according to customer need;
5. If the user has special requirements, please feel free to contact us.