



MPM426WPC Level Transmitter

MICROSENSOR

AUTHORIZED DISTRIBUTOR

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.



FEATURES

- 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

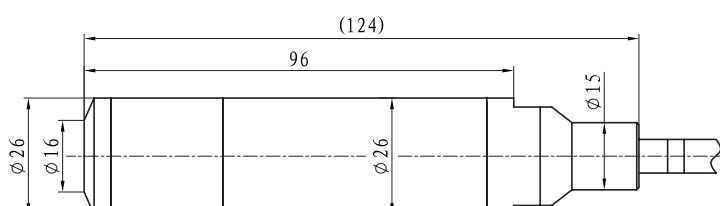
CONSTRUCTION MATERIAL

Housing: stainless steel 316L

Diaphragm: stainless steel 316L

Cable: $\phi 7.5\text{mm}$ Teflon® Jacketed Cable

OUTLINE DIMENSION (Unit: mm)



Version | 09.2021



SPECIFICATIONS

Level range: 0mH₂O~2mH₂O / 3.5mH₂O / 5mH₂O / 10mH₂O / 20mH₂O / 35mH₂O

Pressure Type: Gauge

Overload: 1.5FS

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

Output Signal ^① : 0.5V~4.5V DC (3-wire), with temperature signal

Accuracy ^② : ±1% FS (≤ 3.5m H₂O)
±0.5% FS (>3.5mH₂O)

Total Error ^③ : ±2% FS (≤ 3.5m H₂O , -20 °C ~75 °C)
±1.5% FS (> 3.5m H₂O , -20 °C ~75 °C)

Long-term Stability: ≤ ±0.3%FS/Year

Working Temperature: -30 °C ~ 80 °C

Storage Temperature: -40 °C ~ 100 °C

Insulation Resistance: 100V@100MΩ

Load Resistance: ≥ 10kΩ

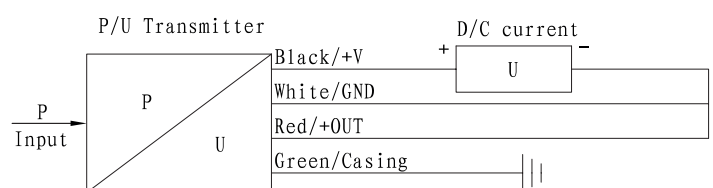
Protection Rating: IP68

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 °C ±5 °C), non-linear;
- ③: The accuracy includes non-linearity, repeatability and hysteresis within the working temperature range.

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 ₂ O ~ 2mH ₂ O/3.5mH ₂ O/5mH ₂ O/10mH ₂ O/20mH ₂ O/35mH ₂ O									
		[0 ~ XmH ₂ 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 ₂ O]6	V1	K	24	D1	G	the whole spec				

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.