Level Transmitter MPM426WPC

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_2O~2mH_2O/3.5mH_2O/5mH_2O/10mH_2O /20mH_2O/35mH_2O

Pressure Type: Gauge

Overload: 1.5FS

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

Output Signal①: 0.5V~4.5V DC (3-wire), with temperature signal

Accuracy②: ±1% FS(≤ 3.5mH_2O) ±0.5% FS(>3.5mH_2O)

Total Error③: ±2% FS(≤ 3.5mH_2O, -20℃ ~75℃) ±1.5% FS (> 3.5mH_2O, -20℃ ~75℃)

Long-term Stability: ≤ ±0.3%FS/Year

Working Temperature: -30℃ ~ 80℃

Storage Temperature: -40℃ ~ 100℃

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℃ ±5℃), non-linear;

③: The accuracy includes non-linearity, repeatability and hysteresis within the working temperature range.

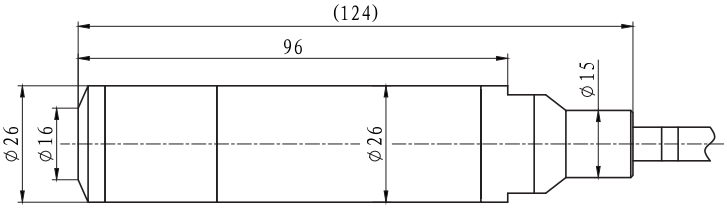
Construction Material

Housing: stainless steel 316L

Diaphragm: stainless steel 316L

Cable: φ7.5mm Teflon® 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	$0mH_2O \sim 2mH_2O/3.5mH_2O/5mH_2O/10mH_2O/20mH_2O/35mH_2O$						
	$[0 \sim XmH_2O]L$	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	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	$[0 \sim 5mH_2O]6$	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.