MPM4503 Pressure Transmitter



Features

- Micro-fused technology, dry-type structure;
- Water hammer preventing and cracking resistant;
- Compact structure, high cost-effectiveness, wild range of application Temperature compensation and linear correction.

Application

- Energy & Water Treatment System
- Building Automation System
- IoT Terminal
- VF constant pressure water supply
- Compressor

Introduction

MPM4503 Pressure Transmitter is a cost-effective product which adopts micro-fused technology pressure sensor and special designed amplifier circuit. With linear correction and temperature compensation, it can effectively resist overpressure, the sensing part is made of stainless steel which can solve the problem of momentary overload pressure and also could meet different needs for pressure measurement and control in various environmental conditions. The product is batch produced in automatic production line and all the specifications are strictly controlled. The whole transmitter experiences a strict testing for sensing element, semi-finished and completed product and aging screening, which makes it more stable and has a good consistency. It could be widely used in the fields like lo VF constant pressure water supply, compressor, T terminal, energy & water treatment system and building automation system, etc.

Specification

1. Basic performance parameters

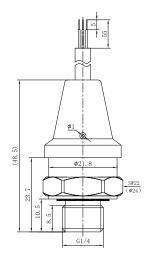
Pressure Range	0bar \sim 10bar、16bar、20bar、25bar、 50bar		
Overpressure	≤ 2×FS		
Burst pressure	≤ 5×FS (Max 100bar)		
Accuracy	$\leq \pm 1\%$ FS (within compensated temperature range)		
Compensated temperature	0°C∼ 70°C		
Working temperature	-20°C∼ 100°C		
Storage temperature	-40°C∼ 100°C		
Vibration	5g,10Hz ∼ 500Hz		
Shock	10g, 11ms		
Insulation	IP65		
resistance	IP68 (Optional)		
Weight	≤ 100g		

2. Output parameters

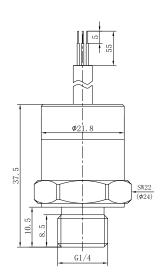
Output Signal	Power Supply	Output Format	Load Resistance	Transmission
Output Signal	Fower Supply			Distance
4mA~20mA DC (E)	10V~28V DC	2-wire		< 1000m (@24V
4IIIA 20IIIA DC (E)				DC,load250Ω)
0.5V~4.5V DC(K2)		3-wire	≥ 10k	≤ 5m
	5V±0.1V DC			
0.5V~2.5V DC(W1)				
0.5V~2.5V DC(W2)	3.3V±0.1V DC			

Outline Construction

(unit:mm)



Common (IP65 Insulation resistance)



Customized (IP68 Insulation resistance)

Electrical Connection

Wire color	2-wire	3-wire	
Red	Power (+V)	Power (+V)	
Green	Null	Output+ (+OUT)	
Black	Output+ (OV/+OUT)	Common (GND)	

Structure Material Medium contact part

Isolation diaphragm: stainless steel 17-4PH

Pressure port: stainless steel 304

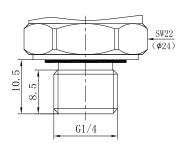
Sealing ring: NBR

Non-medium contact part

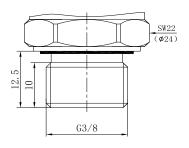
Cable: Polyurethane (5-core, φ5 mm)

Process Connection

(Unit:mm)

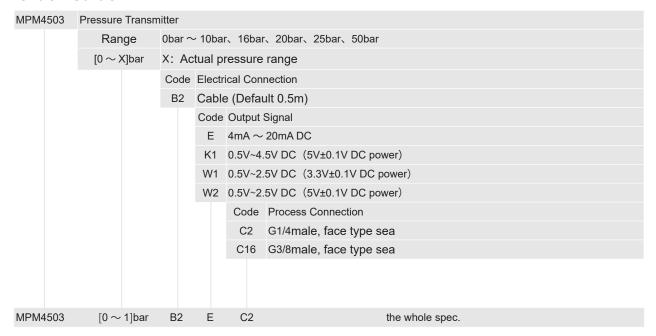


C2 (G1/4 male, face type seal)



C16 (G3/8 male, face type seal)

Order Guide



Notes

- 1. The relationship of the power supply and the output signal is as followed;
- 2. If the user has special requirement, please feel free to contact our company.