



MPM4501 Pump Pressure Transmitter

Features

- Pressure range: 0.6MPa, 1MPa, 1.6MPa, 2MPa for option
- Micro-fused silicon technology without filling oil
- Resistance to water hammer, with high overload pressure ability
- Compact construction, cost efficiency
- Temperature compensation and linear correction



Application

- Variable frequency pump
- Energy and water treatment system
- Building automation system
- Compressor

Introduction

MPM4501 Pump pressure transmitter is a cost-effective product which adopts micro-fused silicon pressure sensor and special designed amplifier circuit. With linear correction and temperature compensation, it can effectively resist water hammer effect, 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 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 VF constant pressure water supply, compressor, building automation system and water treatment etc.

Specification

Pressure range: 0MPa~0.6MPa, 1MPa, 1.6MPa, 2MPa

Accuracy: 1.0 (within compensated temperature range)

Zero thermal drift: ± 0.02 %FS/ $^{\circ}$ C

Span thermal drift: ± 0.02 %FS/ $^{\circ}$ C

Overload pressure: 2 \times FS

Burst pressure: 6MPa

Power supply: 5 \pm 0.5V DC

Output signal: 0.5V~4.5V DC

Compensated temperature: 0 $^{\circ}$ C~70 $^{\circ}$ C

Storage temperature: -20 $^{\circ}$ C~100 $^{\circ}$ C

Insulation resistance: ≥ 100 M Ω @250V DC

Media compatibility: compatible with stainless steel 17-4PH and NBR

Protection: IP67

Construction Material

Housing: stainless steel 1Cr18Ni9Ti

O-ring: NBR

<http://www.microsensor.cn>

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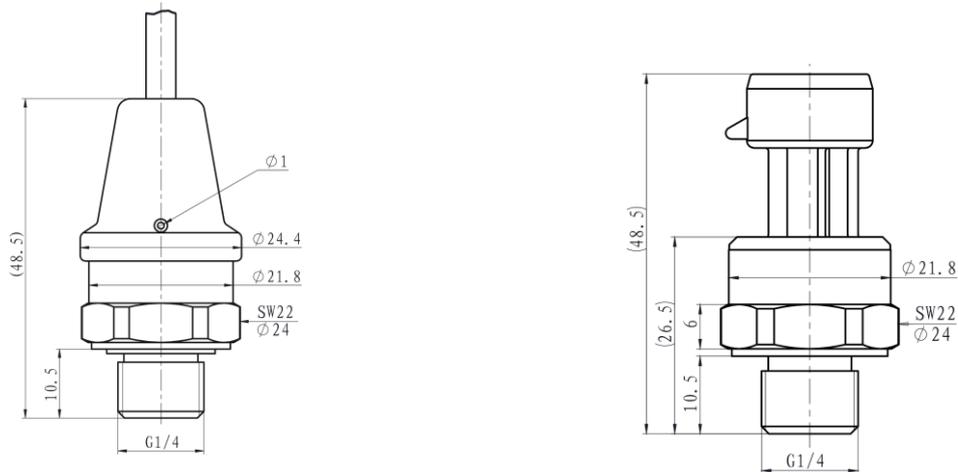
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Sensor: stainless steel 17-4PH
 Cable: Φ5.1mm PE cable with 3-core

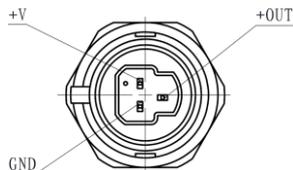
Plug housing: PBT
 Cable sheath: PA

Outline Dimension (unit: mm)



Electric Connection

Cable	Plug
Red (+V)	+V
Green (+OUT)	+OUT
Black (GND)	GND



Order Guide

MPM4501		Pump Pressure Transmitter					
		Range		Measured range: 0MPa~0.6MPa、1MPa、1.6MPa、2MPa			
		[0~X]MPa		X: actual measured range			
		Code		Output signal			
		K		0.5V~4.5V DC			
		Code		Others			
		B ₁		Plug			
		B ₂		Cable (default: 0.5m)			
		C ₂		G1/4 male			
		C ₁₆		G3/8 male			
MPM4501	[0~1]MPa	K	B ₁ C ₂	the whole spec.			

Order Note

1. If you have special requirement, please contact our company freely and also note it in the order;
2. Customization is available.

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