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Pressure Transmitter MPM4503

Features

·Pressure Range:

0.3MPa, 0.6MPa, 1MPa,1.6MPa, 2MPa, 2.5MPa, 5MPa optional ·Micro-fused technology, dry-type structure ·Water hammer preventing and cracking resistant ·Compact structure, high cost-effectiveness ·Temperature compensation and linear correction

Application

·IoT terminal ·Smart firefighting

·Smart agriculture irrigation ·Water pump, pipeline, water pressure control system

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 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 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 IoT terminal, smart firefighting, smart agriculture irrigation, water pump, pipeline and water pressure control system etc.

Specifications:

Pressure range: $0MPa\sim0.3MPa$, 0.6MPa, 1MPa, 1.6MPa, 2MPa, 2.5MPa, 5MPaAccuracy: 1.0 (within compensated temperature range) Zero thermal error: $\pm 0.02 \ \%FS/^{\circ}C$ Span thermal error: $\pm 0.02 \ \%FS/^{\circ}C$ Over pressure: $2 \times FS$ Burst pressure: $5 \times FS$ (10MPa Max.) Power supply: $3.3V\pm0.2V$ DC / $5V\pm0.2V$ DC / $10V \sim 28V$ DC Output signal: $0.5V \sim 2.5V$ DC / $0.5V \sim 4.5V$ DC / $4mA \sim 20mA$ DC / $1^{2}C$ Compensated temperature: $0^{\circ}C \sim 70^{\circ}C$ Storage temperature: $-20^{\circ}C \sim 100^{\circ}C$ Insulation resistance: $\geq 100M\Omega@250V$ DC Protection: IP67 Media compatibility: the media compatible with 17-4PH SS and NBR

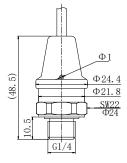
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Construction Material

Housing: Stainless steel 304 O-ring: NBR Pressure sensor: Stainless steel 17-4PH Cable: Φ5.1mm Polyethylene special cable with three cores **Outline Dimension(unit: mm):**



Electric Connection

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

Order Guide

MPM4503	Pressure Transmitter						
	Range	Measuring Range: 0MPa~0.3MPa, 0.6MPa, 1MPa, 1.6MPa, 2MPa, 2.5MPa, 5MPa					
	[0~X]MPa	X: Actual measuring range					
		Code	 Power 24V DC (default for the current output) 5V DC 3.3V DC 				
		V ₁					
		V ₆					
		V ₇					
			Code	Output Sig	jnal		
			Е	4mA~20mA DC			
			K	0.5V~4.5V	/ DC		
			W	W0.5V~2.5V DCCI²C (10%~90%) (customized outline optional)			
			С				
				Code	Others		
				B ₂	Cable (default length is 0.5meter, for more length of cable or other electrical connection, please indicate in the purchase order)		
				C ₂	G1/4 male		
				C ₆	NPT1/4 male		
				C ₇	NPT1/8 male		
				C ₁₆	G3/8 male		
MPM4503	[0~1]MPa	V_6	К	B_2C_2	Complete Part Number		

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Order Notes:

Power Supply	Output Signal		
3.3V DC(V7)	0.5V~2.5V DC(W), IIC(C)		
5V DC(V6)	0.5V~2.5V DC(W), 0.5V~4.5V DC(K), IIC(C)		
24V DC(V1)	4mA~20mA DC(E)		

1. The relationship of the power supply and the output signal

2. Customization is available

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