

MPM489 Pressure Transmitter

Brief Introduction

MPM489 product is piezo-resistive pressure transmitter with zero and span adjustable. It uses high stable and reliable pressure sensor and special circuit board to produce transmitter, and performance is good and reliable. MPM489 pressure transmitter is used for measure and control of petroleum, chemi-industry, electric power, hydrology and flow pressure measure, etc.



Features

- ·Reliable performance, easy application
- ·Short protection and reverse polarity protection
- ·Measure gauge, absolute and sealed gauge
- Intrinsic safe version, conforming to Standard Exia CT6 of GB3836.4
- ·Exd product conforms to Standard GB3836.2, and Exd certificate is approved. Exd sign is Exd II CT6
- ·Ship-use product conforming to CCS Rules of Classification of Sea-going Steel Ships (2006)
- ·CE and RoHS approved

Specification

·Pressure range: -0.1...0~0.01...100MPa

·Overpressure: 1.5 times FS or 110MPa (min. value is valid)

·Pressure type: gauge/ absolute / sealed gauge

·Process connection: M20×1.5 male waterline seal (or on your demand)

·Accuracy: 0.5%FS

·Long term stability: max. ±0.3%FS/year

·Zero thermal drift: 0.1%FS/ (\leq 100kPa); 0.05%FS/ (\geq 100kPa)

·Span thermal drift: 0.1%FS/ ($\leq 100kPa$); 0.05%FS/ (< 100kPa)

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·Compensation temp.: $0{\sim}50$

·Application temp.: $-30{\sim}80$, intrinsic safe version: $-10{\sim}60$, EXD: $-20{\sim}60^{\circ}{\rm C}$

·Storage temp.: $-40 \sim 120$

·Power supply: $10\sim28$ VDC, intrinsic safe version supplied by safe barrier

EXD: 8~28VDC

Output signal: $4\sim 20 \text{mADC}$ (2-wire), $0/1\sim 5 \text{VDC}$ (3-wire)

·Load: \leq (U-10) /0.02 Ω (2-wire), \geq 10k (3-wire)

·Housing protection: IP65

·Electric connection: DIN43650 plug

Construction and Outline Dimension

Construction material:

Housing: stainless steel 1Cr18Ni9Ti

Sensor housing: stainless steel 1Cr18Ni9Ti

Diaphragm: stainless steel 316L

Sealed-ring: Viton

Plug housing: plastic

Electric Connection

Transmitter connects with the outer circuit through

DIN43650 plug. Terminal definition as below:

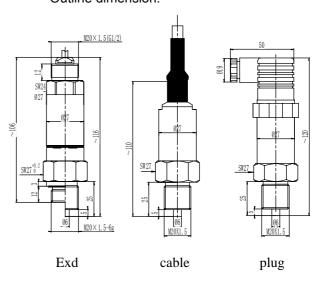
Pin	2-wire	3-wire		
1	+V	+V		
2	Signal: +OUT	GND		
3	Null	Signal: +OUT		

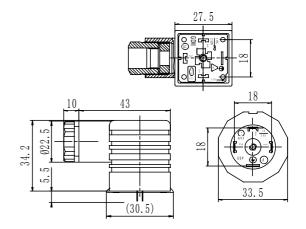
Wire color	2-wire	3-wire		
Black	+V	+V		
Red	0V	+OUT		
White	Null	GND		

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Outline dimension:





MICRO SENSOR CO.,LTD.



Order Information

MPM489	Pressure Transmitter							
	Range	Range Pressure range: −0.10~0.01100MPa						
	[0∼X]kPa or M	IPa X	X: the actual measured pressure					
		С	Code Output signal					
			E 4~20mADC					
			F 1∼5VDC					
			J	0∼5VDC				
				Code			Construction material	
				Code	Diaph	ragm	Pressure port	Housing
				22	SS 3	316L	SS	SS
				25	Tanta	alum	SS	SS
				35	Tanta	alum	Hastelloy	SS
					Code		Other	S
					B ₁	Plug co	nnection	
					Р	Flush diaphragm (0~70kPa35MPa)		
					M ₃	3 1/2 di	2 digits LCD digital indicator	
					M ₄	3 1/2 digits LED digital indicator Intrinsic safe version: Exia CT6 Ship-use Exd II CT6 M20×1.5 male, face type seal G1/2 male (used for flush diaphragm type) M20×1.5 male, waterline seal		
					i			
					Т			
					d			
					C ₁			
					C ₃			
					C ₅			
					G	Gauge		
					S	Sealed gauge		
					Α	Absolut	e	
MPM489	 [0∼100kPa]	E	22	B₁C₅G		the whole	spec

Note:

- 1. Please pay attention that the media should be compatible with the contacted parts;
- 2. If any special requirements on function or specification, please contact with us freely;
- 3. Please pay attention that the intrinsic safe version and ship-use product do not include digital indicator M_3 or M_4 .