

MPM489 Pressure Transmitter

Features

- Reliable performance, easy application
- Short protection and reverse polarity protection
- Measure gauge, absolute and sealed gauge
- Intrinsic safe version, conforming to Standard Exia II 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



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.

Specification

- Pressure range: $-0.1 \dots 0 \sim 0.01 \dots 100 \text{ MPa}$
- 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. $\pm 0.3\% \text{ FS/year}$
- Zero thermal drift: $0.1\% \text{ FS}/^{\circ}\text{C} (\leq 100 \text{ kPa})$; $0.05\% \text{ FS}/^{\circ}\text{C} (> 100 \text{ kPa})$
- Span thermal drift: $0.1\% \text{ FS}/^{\circ}\text{C} (\leq 100 \text{ kPa})$; $0.05\% \text{ FS}/^{\circ}\text{C} (> 100 \text{ kPa})$

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- Compensation temp.: 0~50℃
- Application temp.: -30~80℃, intrinsic safe version: -10~60℃, EXD: -20~60℃
- Storage temp.: -40~120℃
- Power supply: 11~28VDC, intrinsic safe version supplied by safe barrier
EXD: 8~28VDC
- Output signal: 4~20mA DC (2-wire), 0/1~5VDC (3-wire)
- Load: $\leq (U-11) / 0.02\Omega$ (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

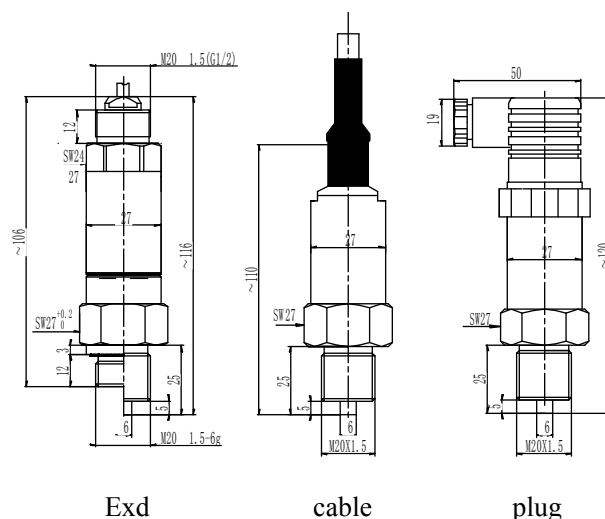
Diaphragm: stainless steel 316L

Sealed-ring: Viton

Plug housing: plastic

Cable: $\Phi 7.5$ mm Polyethylene Special Cable

Outline dimension:



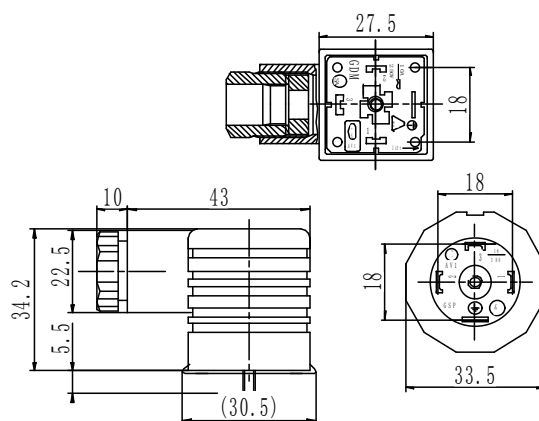
Electric Connection

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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Order Information

MPM489	Pressure Transmitter				
	Range	Pressure range: -0.1...0~0.01...100MPa			
	[0~X]kPa or MPa	X: the actual measured pressure			
		Code	Output signal		
		E	4~20mADC		
		F	1~5VDC		
		J	0~5VDC		
		Code	Construction material		
			Diaphragm	Pressure port	Housing
		22	SS 316L	SS	SS
		24	SS 316L	SS 316L	SS 316L
		25	Tantalum	SS	SS
		35	Tantalum	Hastelloy	SS
		Code	Others		
		B ₁	Plug connection		
		B ₂	Cable connection		
		PC1	Flush diaphragm, M20×1.5 male		
		PC3	Flush diaphragm, G1/2 male		
		M3	3 1/2 digits LCD digital indicator		
		M ₄	3 1/2 digits LED digital indicator		
		i	Intrinsic safe version: Exia II CT6		
		T	Ship-use		
		d	Exd II CT6		
		C ₁	M20×1.5 male, face type seal		
		C ₃	G1/2 male (used for flush diaphragm type)		
		C ₅	M20×1.5 male, waterline seal		
		G	Gauge		
		S	Sealed gauge		
		A	Absolute		
MPM489	[0~100kPa]	E	22	B ₁ C ₅ G	the whole spec

Order Note:

1. Please pay attention that the media should be compatible with the contacted parts;
2. Flush diaphragm transmitter's pressure range: 0~70kPa...35Mpa;
3. If any special requirements on function or specification, please contact with us freely;

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4. Please pay attention that the intrinsic safe version and ship-use product do not include digital indicator

M3 or M4.