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 CT6Ga of GB3836.4
- Exd product conforms to Standard GB3836.2, and Exd certificate is approved.
- Ship-use product conforming to CCS Rules of Classification of Sea-going Steel Ships (2018)
- CE, RoHS and ATEX approved

Introduction

MPM489 product is a 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: -1bar...0bar~0.1bar...1000bar
- Overpressure: ≤1.5 times FS or 1100bar (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: ≤ ±0.3%FS/year
- Zero thermal drift: ≤±0.05%FS/°C (≤1bar);

≤±0.03%FS/°C (>1bar)

Span thermal drift: ≤±0.05%FS/°C (≤1bar);

≤±0.03%FS/°C (>1bar)

- Compensation temp.: 0°C ~50°C
- Application temp.: -30°C ~80°C; -10°C ~60°C (Exia);

-20°C ~60°C (Exd); -10°C ~70°C (Cable)

- Storage temp.: -40°C ~120°C; -20°C ~85°C (Cable)
- Power supply: 11V~28VDC; 11V~28VDC; 3.3/5V DC
- Output signal: 4mA~20mA DC(2-wire);
- 0/1V~5/10V DC(3-wire);
- 0.5V~2.5/4.5V DC(3-wire)
- Load: \leq (U-11)/0.02 Ω (2-wire); \geq 10k(3-wire); \geq 10k(3-wire)
- Housing protection: IP65
- Electrical connection: DIN43650 plug or cable(1.5m)



Construction Material

• Housing: stainless steel 304

Sensor housing: stainless steel 304

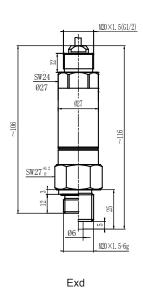
Diaphragm: stainless steel 316L

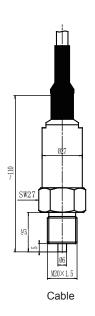
Sealed-ring: Viton

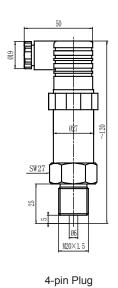
Plug housing: plastic

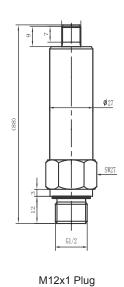
• Cable: Φ7.5mm Polyethylene Special Cable

Outline Construction (Unit: mm)









Electrical Connection

Transmitter connects with the outer circuit through DIN43650 plug.

Plug Connection

Pin	2	2-wire	3-wire		
1		+\/	+V		
2	+	+OUT	GND		
3		Null	+OUT		

Cable Connection

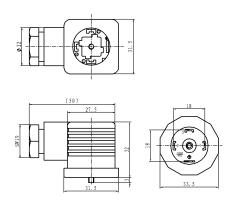
Wire color	2-wire	3-wire	
Black	+V	+V	
Red	0V	+OUT	
White	Null	GND	

M12x1 4-pin Plug Connection

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



M12x1 4-pin Plug Connection



4-pin Plug Connection

Order Guide

MPM489					Pres	sure Transn	nitter	
	Range	Pressu	Pressure range: -1bar0bar~0.1bar1000bar					
	[0~X]bar		K: the actual measured pressure					
		Code	Power					
		V ₁	24V DC					
		V ₆	5V DC					
		V ₇	3.3V DC					
			Code Output signal					
			E 4mA~20mA DC					
			F 1V~5V DC					
			J					
			V	0V~10				
			W	K 0.5V~4.5V DC				
			K					
				Code			Construction material	
						aphragm	Pressure port	Housing
				22		S 316L	SS	SS
				24		S 316L	SS 316L	SS 316L
				25		antalum	SS	SS
				35		antalum	Hastelloy	SS
				Code Others				
					B ₁ 4-pin Plug connection			
					B ₂ Cable connection			
					B ₄ M12×1 4-pin Plug connection			
					PC ₁ Flush diaphragm, M20×1.5 male PC ₂ Flush diaphragm, R1/2 male			
					PC ₂ Flush diaphragm, R1/2 male PC ₃ Flush diaphragm, G1/2 male			
					PD ₁		connection(Large diap	hragm)
					P ₃		connection(Welding ty	
					M ₆		digital indicator(only for	• •
					M ₇ 4digits LCD digital indicator(only for 4mA~20mA DC)			
					i Intrinsic safe version: Exia II CT6Ga			
					T Ship-use			
					у	ATEX		
					d	Exd II CT6	Gb	
					C ₁	M20×1.5 ma	ale, 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			
					Α	Absolute		
MPM489	[0~1bar]	V ₅	Е	22	B ₁ C ₅ G	the v	whole spec.	

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Notes

- 1.Please pay attention that the media should be compatible with the contacted parts;
- 2.Flush diaphragm transmitter's pressure range: 0bar~1bar...350bar; PD1 transmitter's pressure range: 0bar~1bar...35bar; P3 transmitter's pressure range: -1bar...0bar~0.2bar...20bar;
- 3.If any special requirements on function or specification, please contact with us freely;
- 4.Please pay attention that the intrinsic safe version and ship-use product do not include digital indicator M6 or M7; Transmitter with M6 or M7, the power supply of the transmitter shall be no less than 20V DC;
- 5.24V DC power supply (V1), see "Specification" for detail about Power supply range;
- 6. When ordering, please pay attention to 3.3V/5V DC power supply. If the cable is connected out of line, the cable length should be less than 10m; When the order output is 0V to 10V DC product, the power supply is 15V to 28V DC;
- 7.3.3V DC power supply (V7), output can only select W(0.5V \sim 2.5V DC); 5V DC power supply (V6), output can only select W(0.5V \sim 2.5V DC) or K(0.5V \sim 4.5V DC), generally recommended K.

