



MPM489

Pressure Transmitter

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.



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

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: ≤(U-11)/0.02Ω(2-wire); ≥10k(3-wire); ≥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

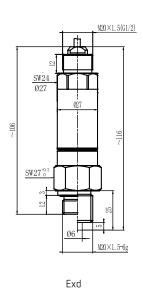
• Diaphragm: stainless steel 316L

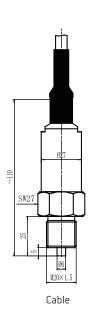
· Sealed-ring: Viton

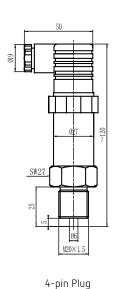
Plug housing: plastic

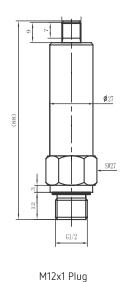
• Cable: Φ7.5mm Polyethylene Special Cable

OUTLINE CONSTRUCTION (Unit: mm)









ELECTRICAL CONNECTION

Transmitter connects with the outer circuit through DIN43650 plug.

Plug Connection

Pin	2-wire	3-wire		
1	+V	+V		
2	+0UT	GND		
3	Null	+0UT		

Cable Connection

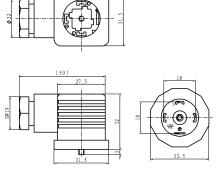
Wire color	2-wire	3-wire		
Black	+V	+V		
Red	0V	+0UT		
White	Null	GND		

M12x1 4-pin Plug Connection

Pin	2-wire	3-wire		
1	+V	+V		
2	Null	GND		
3	+0UT	+0UT		



M12x1 4-pin Plug Connection



4-pin Plug Connection





ORDER GUIDE

MPM489	Pressure Transmitter							
	Range	Pressu	ssure range: -1 bar0 bar~0.1 bar1000 bar					
	[0~X]bar		e 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	J 0V~5V DC				
			V	V 0V~10 V DC				
			W	/ 0.5V ~2.5V DC				
			K	0.5V ~4	+.5V DC			
				Code	Code		Construction material	
						iphragm	Pressure port	Housing
				22		S 316L	SS	SS
					24 SS 316L 25 Tantalum		SS 316L	SS 316L
							SS	SS
				35		ıntalum	Hastelloy	SS
					Code	Others		
					B ₁	4-pin Plug connection		
					B ₂			
					B ₄			
					PC ₁			
					PC ₂			
					PC ₃			
					PD ₁		connection (Large diaphi	
					P ₃	·	connection (Welding type	
					M ₆	4digits LED digital indicator (only for 4mA ~20mA DC)		
					M ₇	4digits LCD digital indicator (only for 4mA ~20mA DC)		
					'	Intrinsic safe version: Exia II CT6Ga		
						Ship-use ATEX		
					y d	Exd II CT6 G b		
					C ₁	M20×1.5 male, face type seal		
					C 3	G1/2 male (used for flush diaphragm type)		
					C 5			
					G	G Gauge		
					S			
					A	Absolute		
MPM489	[0 ~1bar]	V ₅	E	22	B ₁ C ₅ G	the wi	nole spec.	





NOTES

- 1. Please pay attention that the media should be compatible with the contacted parts;
- 2. Flush diaphragm transmitter's pressure range: Obar~1bar...350bar; PD1 transmitter's pressure range: Obar~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~2.5V DC); 5V DC power supply (V6), output can only select W(0.5V~2.5V DC) or K(0.5V~4.5V DC), generally recommended K.