

# MPM489B Pressure Transmitter



## Features

- Reliable performance, easy installation and using
- Multi-protection, good resistance of EMI
- Over-current protection, good compatibility
- Short circuit and reverse signal polarity protection
- Zero, span adjustable
- Measure gauge, absolute and sealed gauge

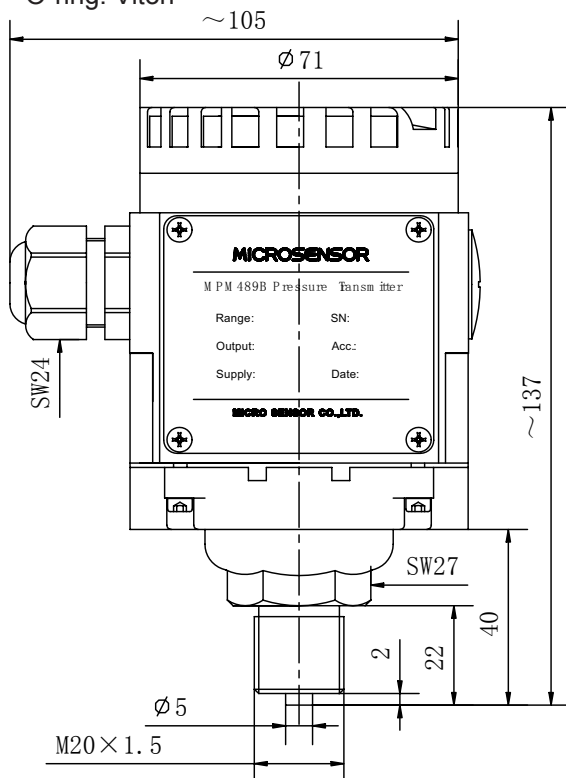
## Introduction

MPM489B pressure transmitter is designed especially for pressure measure and control of petroleum, chemi-industry, water conservancy and electricity, etc. The product has good performance and stability, good resistance of EMI, and protection for instantaneous high pressure and surge interfere which is produced by thunder, noise and sharp pulse, etc. The product could work reliably and stably in rough environment for a long time.

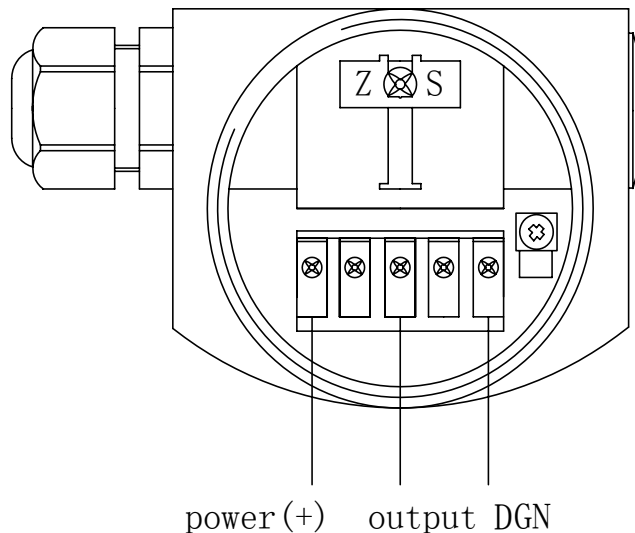
Pressure range	-0.1MPa...0MPa~0.02MPa~100MPa
Media	the liquid or gas which is compatible with stainless steel 1Cr18Ni9Ti
Power supply	12~28VDC
Output signal	4~20mADC, 2-wire
Load	$R \leq (U-12)/0.02\Omega$
Accuracy	0.5~FS
Thermal error	0.03%FS/°C ( $\leq 100\text{kPa}$ ), 0.02%FS/°C ( $> 100\text{kPa}$ )
Overpressure	1.5 times FS or 110MPa (min. value is valid)
Environment temp.	-30°C ~+80°C , -10°C ~+60°C (intrinsic safe version)
Media temp.	-40°C ~+80°C
Storage temp.	-40°C ~+85°C
Shock	3-dimensional 10g /frequency 50Hz/ swing1mm, zero and span change<0.3%FS
Impact	100g/20ms, zero and span change<0.3%FS
Humidity	0~90%RH
Protection	IP65
Frequency response	>1kHz
Endurance	10 <sup>6</sup> pressure cycles

**Construction and Outline Dimension**(Unit:mm)

- Housing: Aluminum-casting
- Sensor housing: stainless steel 1Cr18Ni9Ti
- Diaphragm: stainless steel 316L
- O-ring: Viton

**MPM489B Electrical Connection**

Connection socket	2-wire
Power(+)	+V
Output	OV/ +OUT
8	+IN



Terminal "GND" should connect with shield wire of the cable, and the shield wire should be grounding reliably; or connect "GND" with housing terminal.

**Order Guide**

MPM489B		Pressure Transmitter							
		Range	Pressure range: -0.1MPa...0MPa~0.01MPa...100MPa						
		[0~X]kPa or MPa	X: Actual measurement range						
		Code	Output						
		E	4mA~20mADC						
					Code	Construction material			
						Diaphragm	Pressure port	Housing	
	33	SS 316L	SS	SS					
	25	Tantalum	SS	SS					
						Code	Others		
						C1	M20×1.5 male, face type seal		
						C3	G1/2 male(used for flush diaphragm type)		
						C5	M20×1.5 male,waterline seal		
						G	Gauge		
						S	Sealed gauge		
						A	Absolute		
MPM489B	[0~1000] kPa	E	22	C1G	the whole spec				

**Notes**

- 1.Please pay attention the media should be compatible with product parts which contact with the media;
- 2.The pressure port is optional due to the users' demands,please inform that in the order;
- 3.If the users have any special requirement,please feel free to let us know.