TP489D Pressure Transmitter ATEX



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 CT4 Ga
- Ship-use product conforming to CCS Rules of Classification of Sea-going Steel Ships (2018)
- CE, RoHS and ATEX approved

Introduction

TP489D 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. TP489D 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);
- Storage temp. : -40°C ~120°C
- 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

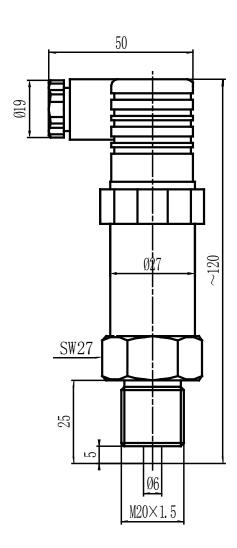
Sensor housing: stainless steel 304

Diaphragm: stainless steel 316L

Sealed-ring: Viton

Plug housing: plastic

Outline Construction (Unit: mm)



4-pin Plug

Electrical Connection

Transmitter connects with the outer circuit through DIN43650 plug.

Plug Connection

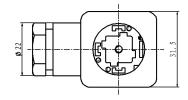
Pin	2-wire	3-wire		
1	+V	+V		
2	+OUT	GND		
3	Null	+OUT		

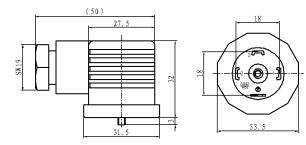
Cable Connection

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	





4-pin Plug Connection

Order Guide

TP489					Pres	ssure Transr	mitter		
	Range Pressure range: -1bar0bar~0.1bar1000bar								
[0~X]bar X: the actual measured pressure									
		Code							
		V ₁	24V DC						
		V ₆	5V DC						
		V ₇	3.3V E	C					
			Code Output signal						
			E 4mA~20mA DC						
			F 1V~5V DC						
			J 0V~5V DC						
			V 0V~10V DC						
				Code			Construction material		
				Code	Dia	aphragm	Pressure port	Housing	
				22	S	S 316L	SS	SS	
				24	S	S 316L	SS 316L	SS 316L	
				25	Ta	antalum	SS	SS	
				35	Ta	antalum	Hastelloy	SS	
					Code	Others			
					B ₁	4-pin Plug c	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 ₃	PC ₃ Flush diaphragm, G1/2 male			
					PD₁	DN25 clamp connection(Large diaphragm)			
					P ₃	DN25 clamp	connection(Welding ty	pe)	
					M ₆	4digits LED	digital indicator(only for	4mA~20mA DC)	
					M ₇	4digits LCD	digital indicator(only for	4mA~20mA DC)	
					i	Intrinsic safe	e version: Exia II CT6G	a	
					Т	Ship-use			
					У	ATEX			
					d				
					C ₁				
					C ₃ G1/2 male (used for flush diaphragm type)				
				C₅ M20×1.5 male, waterline seal G Gauge					
			S Sealed gauge						
					Α	Absolute			
TP489	[0~1bar]	V ₅	Е	22	B₁C₅G	the	whole spec.		

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.