PT10SR-2489 Pressure Transmitter

Features

· Sensor and circuit compensation in all ranges, negligible thermal influence
· Shock, vibration and interference resistance
· Protection of short circuit and reversed polarity
· Zero and FS output adjustment available
· Automatical production line ensure the high stability and reliability of transmitter

Brief Introduction

PT10SR-2489 is a latest developed and cost-effective transmitter for general application. Integrating silicon pressure sensor with digital compensation and correction technology, PT10SR-2489pressure transmitter has good performance. It is built by a high stable and reliable piezo-resistive pressure sensor and special IC circuit. It is available to adjust zero and full span (FS) output by potentiometer. After complete temperature range compensation and performance test, it could be widely applied in the industrial control, process monitoring, liquid pressure measurement and control in field of chemical industry, electricity, hydrology, geology, ect.

Specification:

Pressure Range	0～10kPa…40MPa
Over-pressure	1.5 Times Span Pressure
Pressure Type	Gauge, sealed gauge, absolute pressure
Process Connection	M20×1.5 Male Surface Seal
Accuracy①	0.25％FS , 0.5％FS
	0.5％FS (≤100kPa)
Total Error②	±0.015%/℃（-10℃～80℃）, ±0.02%/℃（-20℃～80℃）
	±0.05%/℃（≤100kPa , 0℃～50℃）
Long-term Stability	Max. ±0.3%FS/Year
Operation Temperature	-20℃～80℃
Storage Temperature	-40℃～120℃
Power Supply	8～28VDC
Output Signal	4～20mADC（Two Lines）
Load Resistance	≤（U-8）/0.02Ω
Housing Protection	IP65
Electrical Connection	DIN43650 Explosion-proof Connector

Remarks: ① Root-mean-square of non-linearity, repeatability and hysteresis test at room temperature.

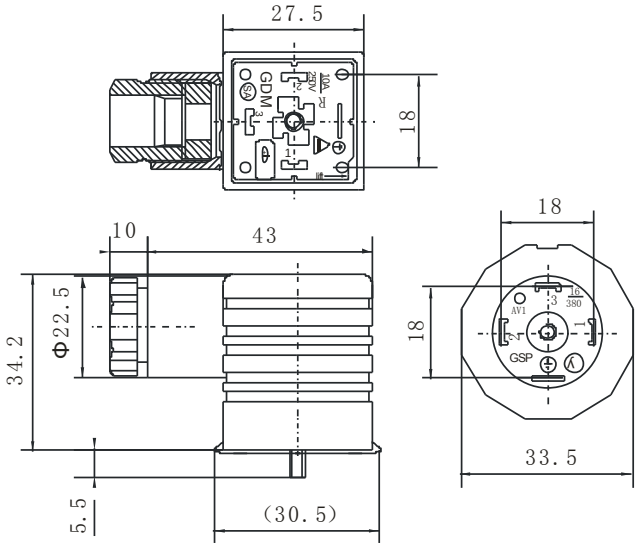
② Within the temperature range, it is total accuracy including non-linearity, repeatability, hysteresis, zero drift, sensitivity drift and other comprehensive index.

Construction Material

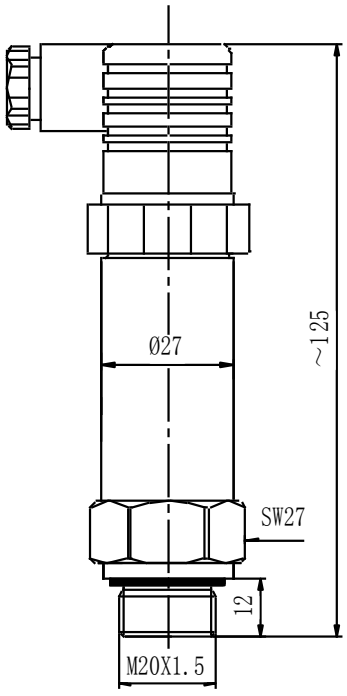
Diaphragm: stainless steel 316L Sensor housing: stainless steel 316L
Housing: stainless steel
Sealing ring: viton Plug Connector Housing: plastic

Electrical Connection and Outline Dimension

Connect transmitter to external circuit by DIN 43650 Explosion-proof Connector.



Pin	1	2	3
Definition	Power+(+V)	Signal(+OUT)	Null



Choice Guide

PT10SR-2489	Pressure Transmitter								
Range	Range(kPa)	Type	Range (kPa)	Type	Range(MPa)	Type	Range(MPa)	Type
	0～10	G	0～100	G, A	0～1	G, A	0～6	S
	0～20	G	0～200	G, A	0～1.6	G, A	0～10	S
	0～35	G	0～400	G, A	0～2	G, A	0～16	S
	0～70	G	0～600	G, A	0～4	G, A, S	0～25	S
							0～40	S
[0～X]kPa or MPa	X: Actual Measurement Range							

Code	Output Signal
E	4～20mADC

Code	Construction Material		
	Isolated Diaphragm	Pressure port	Housing
22	Stainless Steel 316L	Stainless Steel	Stainless Steel
24	Stainless Steel 316L	Stainless Steel 316L	Stainless Steel 316L

Code	Optional Functions
B_1	DIN 43650 Connector
M_3	31/2 LCD Digital Indicator
M_4	31/2 LED Digital Indicator
C_1	M20×1.5 Male Surface Seal
G	Gauge Pressure
S	Sealed Gauge Pressure
A	Absolute Pressure

PT10SR-2489	[0～100]kPa	E	22	B_1C_1G	Completed P/N

Note:

1. Please make sure the measured media is compatible to transmitter process fitting;
2. Multiple choices of O-ring materials for different application media and operation temperature ranges. The lowest operation temperature is -40℃.
3. If you have special requirements please feel free to contact us.