PDT10SR-210 Differential Pressure Transmitter

Features

- OEM differential pressure sensor;
- Full solid insulation, high stability, reliability and accuracy;
- Constant current supply;
- Max. static pressure 20MPa;
- G1/4 female pressure port;
- Liquid, gas and other media differential pressure measurement;
- Compact size.

Introduction

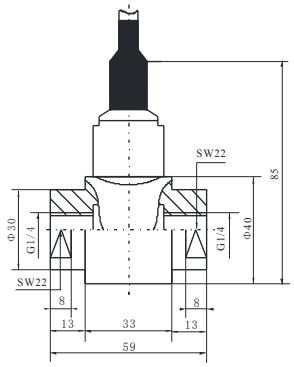
PDT10SR-210 differential pressure transducer is produced by putting OEM differential pressure sensor into full-welded housing with G1/4 female for both positive and negative cavities. The transducer could be mounted into measuring tube through G1/4 female pressure port or leading tube. It is cable connection. The transducer could be widely used in industrial process control, low measure, medical device, air dynamical measure and liquid pressure instrument or pneumatic plant, etc.

Specification

@1.5mADC,25℃		
Pressure range	0~35kPa…3.5MPa	
Zero output	≤2mVDC	
Output signal	≥60mVDC	
+overpressure	2 times FS	
-overpressure	1 time FS or 1MPa(min. value is valid)	
Static pressure	≤20MPa	
Static pressure effect	≤0.05mV/100kPa	
Accuracy[1]	±0.25%FS(typ.)	±0.5%FS(max.)
Zero drift	<±0.02mV/℃	
FS drift	<±0.02%FS/℃	
Relative humility	±0.3%FS/year(typ.)	±0.5%FS/year(max.)
Compensation temp.	0℃ ~50℃	
Operation temp.	-10℃ ~70℃	
Storage temp.	-20℃ ~85℃	
Response time	+ pressure cavity<3kHz - pressure cavity<2kHz	
Diaphragm	Stainless steel 316L	
Housing	Stainless steel 1Cr18Ni9Ti	
O-ring	Viton	
Cable	Φ7.2mm PVC cable	
Insulation resistor	100MΩ，100VDC	
Protection	IP65	
1: Non-linearity + Hysteresis + Repeatability		

PDT10SR-210 Differential Pressure Transmitter

Outline Construction (Unit: mm)



Electrical Connection

Wire color	Connection
Black	+IN
Yellow	-IN
Whilte	-IN
Red	+OUT
Blue	-OUT

Order Guide

PDT10SR-210	Piezoresistive Differential Pressure Transmitter	
	Range code	Pressure range
	0A	0~35kPa
	02	0~70kPa
	03	0~100kPa
	07	0~200kPa
	08	0~350kPa
	09	0~700kPa
	10	0~1000kPa
	12	0~2MPa
	13	0~3.5MPa
PDT10SR-210	07	the whole spec

Notes

1.We suggest to install a tri-valve between measured point and transmitter, so that the measured media could be put on positive and negative cavities slowly and equably. This would help transducer work safely and reliably;

2.We suggest to install differential pressure transducer horizontally;

3.Please pay attention that if transducer's range and max.static pressure could be suitable for measured pressure;

4.Cable length: we provide standard 1.5m cable free of charge, the extra cable should be paid additionally;

5.Please be careful that the pressure of positive cavity should be bigger than negative cavity.