Model PTA

General Purpose Pressure Transducer

Description

PTA model has applied Silicon Piezoresistive cell, which attached High Temperature Glass on Titanium. Since it does not use O-ring, there is no possibility of corrosion and leak. Its low price makes it suitable for industrial uses. With its various outputs, it may be interfaced with various controllers.

Features

- ► CE Certified
- ▶ Built-in amplifier Circuit(VDC, mA)
- ► Measuring range -0.1 ~ 150MPa
- ▶ 0.5%FS accuracy
- ▶ Piezoresistive silicon cell
- ► Zero, Span Adjustable
- ► Stainless steel, Titanium media—wetted materials

Applications

- ▶ Process control
- ► Hydraulics & Pneumatic
- ► Compressor Control
- ▶ Chillers
- ► Refrigeration Equipment



Specifications

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 $-100 \sim 0 \sim 100, 200, 500$ kPa / 1, 2, 3, 5, 10, 20, 30, 50, 100, 150MPa (Gauge)

Performance

Accuracy $\pm 0.5\%$ FS(RSS)

Thermal Effect on Zero $\pm 0.05\%$ FS/°C (≤ 200 kPa : $\pm 0.1\%$ FS/°C)
Thermal Effect on Span $\pm 0.05\%$ FS/°C (≤ 200 kPa : $\pm 0.1\%$ FS/°C)

Compensated Temperature Range $-10 \sim 70^{\circ}$ C Operating Temperature Range $-30 \sim 100^{\circ}$ C

Electrical

Excitation 11 ~ 28VDC(PTAA 12VDC Max.)

Output 10~20mV/V(Din Type Only)

0~5VDC, 1~5VDC, 0~10VDC(3, 4Wire), 4~20mA(2, 3 Wire)

Electrical Connection Connector, Head, Din Connector

Physical

Proof Pressure150%FS Max.Burst Pressure200%FS Min.

Vibration 49.1m/s²{5G}, 10~500Hz

Shock 490m/s²{50G}

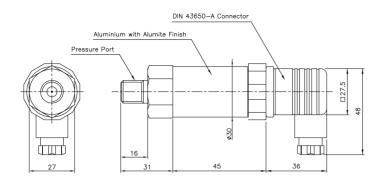
Pressure Port R(PT)1/8", G(PF)1/8", R(PT)1/4", G(PF)1/4", R(PT)3/8", G(PF)3/8"

Media-Wetted Materials Stainless Steel 304, Titanium 87%

Weight Connector type: Approx. 140g (Sensor Only)

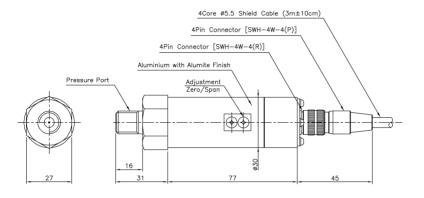


► mV Output DIN Connector Type



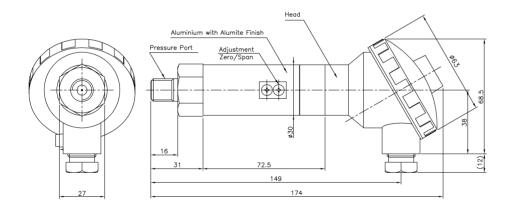
Pin No.	Connections	
1	Input ⊕	
2	Input ⊖	
3	Output ⊕	
⊕	Output ⊖	

► Connector Type



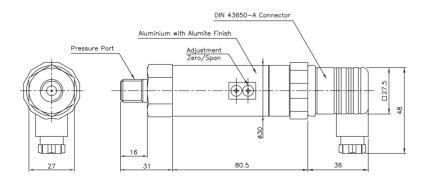
Pin	Wire	Connections		
No.	Color	4Wire	3Wire	2Wire
1	Red	Input ⊕	Input ⊕	Input ⊕
2	White	Output ⊖	Common⊖	×
3	Black	Input ⊖	×	Output ⊕
4	Green	Output ⊕	Output ⊕	×
5	Shield	Earth	Earth	Earth

► Head Type



Na	Connections	
No.	2Wire	
+	Input ⊕	
(Earth	
-	Output ⊕	

▶ Din connector Type



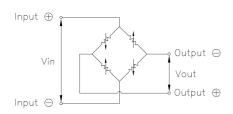
Pin	Connections		
No.	3Wire	2Wire	
1	Input ⊕	Input ⊕	
2	Common⊖	Output ⊕	
3	Output ⊕	×	
(Earth	Earth	

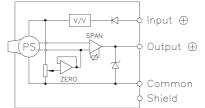
Internal Circuit Diagram

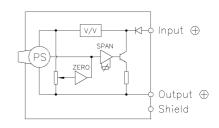
▶ mV Output Type

▶ 2Wire mA Output Type

▶ 3, 4Wire VDC Output Type







Ordering Information

B 0100 R A P PTA

Model Name

Output

F: 4Wire 4~20mA A : mV/VB: 4Wire 0~5V G: 3Wire 4~20mA C: 3Wire 0~5V H: 2Wire 4~20mA D: 4Wire 1~5V J: 3Wire 0~10V

K: 4Wire 0~10V

E: 3Wire 1~5V Pressure Range

XXXX: Pressure

CXXX: Compound Pressure

Option

A: Normal

Connecting Methods

P: Connector H: Head

I: Din 43650-A connector

Pressure port

A: R(PT)3/8" D : G(PF)1/4"B: G(PF)3/8" E: R(PT)1/2" C: R(PT)1/4" Q: G(PF)1/2"

Pressure Unit

R: kPa M: MPa B:bar K: kgf/cm² P: psi H: mmHg