

Model PTB

General Purpose Pressure Transducer

Description

PTB model has applied Silicon Piezoresistive cell, which attached High Temperature Glass on Titanium. 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 -100kPa~10MPa
- ▶ 0.5%FS accuracy
- ▶ Piezoresistive silicon cell
- ▶ Zero, Span Adjustable
- ▶ Stainless steel, Titanium, EPDM media-wetted materials

Applications

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



Specifications

Range

0 ~ 100, 200, 600kPa / 1, 2, 3, 5, 10MPa (Gauge)
-100 ~ 0, 100, 200, 600kPa / 1, 2, 3, 5, 10MPa (Gauge)

Performance

Accuracy	±0.5%FS(RSS)
Thermal Effect on Zero	±0.05%FS/°C
Thermal Effect on Span	±0.05%FS/°C
Compensated Temperature Range	-10 ~ 70°C
Operating Temperature Range	-20 ~ 80°C

Electrical

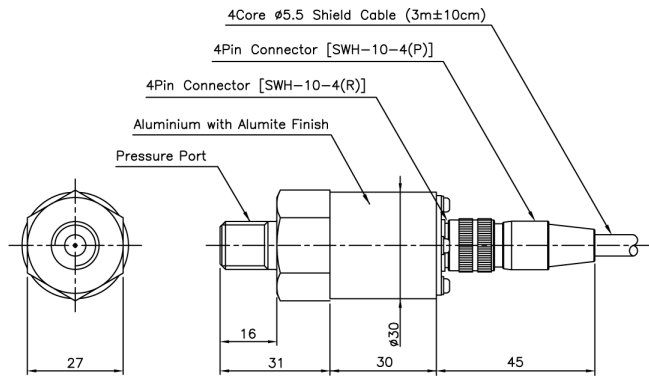
Excitation	11 ~ 28VDC(PTBA 12VDC Max.)
Output	10~20mV/V(600kPa~10MPa Only) 0~5VDC, 1~5VDC, 0~10VDC(3, 4Wire), 4~20mA(2, 3 Wire)
Electrical Connection	Connector, Head, Din Connector

Physical

Proof Pressure	150%FS Max.
Burst Pressure	200%FS Min.
Vibration	49.1m/s ² {5G}, 10~500Hz
Shock	490m/s ² {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%, O-ring : EPDM(Optional VITON)
Weight	Connector type : Approx. 140g (Sensor Only)

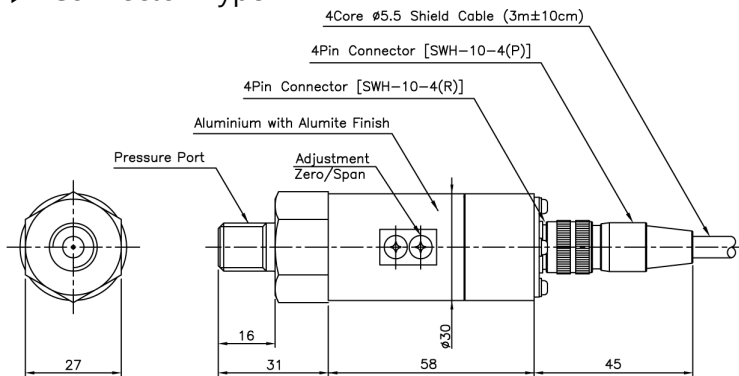
Dimension

► mV Output Connector Type



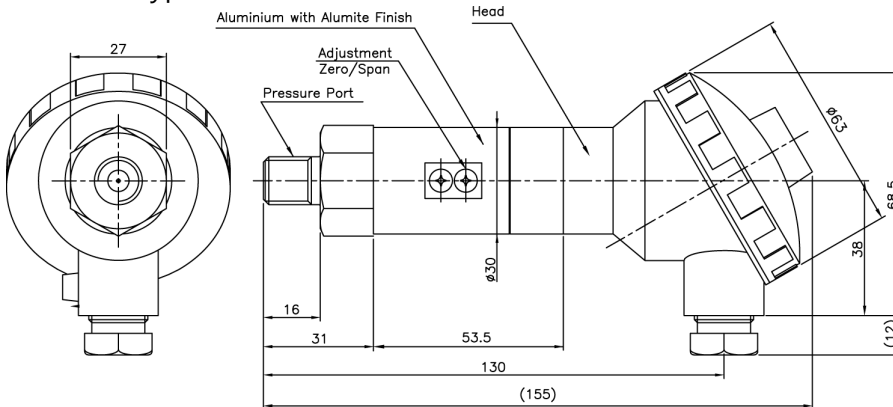
Pin No.	Connections
1	Input ⊕
2	Output ⊖
3	Input ⊖
4	Output ⊕
5	Earth

► Connector Type



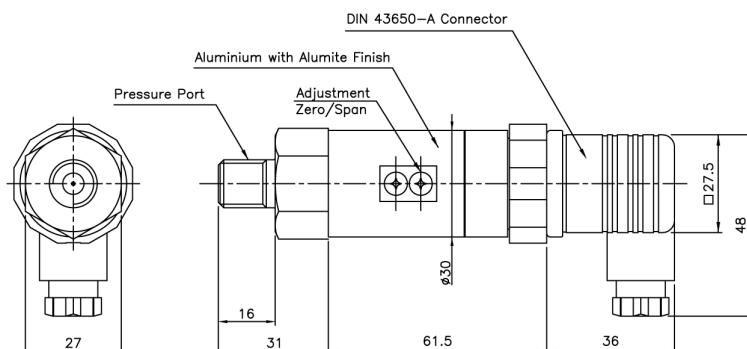
Pin No.	Wire Color	Connections		
		4Wire	3Wire	2Wire
1	Red	Input ⊕	Input ⊕	Input ⊕
2	White	Output ⊖	Common ⊖	x
3	Black	Input ⊖	x	Output ⊕
4	Green	Output ⊕	Output ⊕	x
5	Shield	Earth	Earth	Earth

► Head Type



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

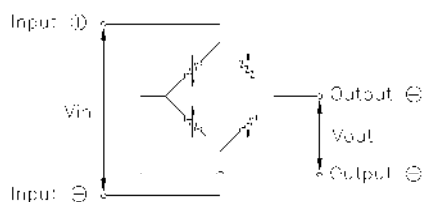
► Din connector Type



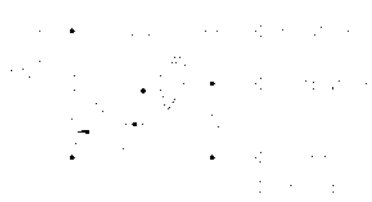
Pin No.	Connections	
	3Wire	2Wire
1	Input ⊕	Input ⊕
2	Common ⊖	Output ⊕
3	Output ⊕	x
⊕	Earth	Earth

Internal Circuit Diagram

► mV Output Type



► 2Wire mA Output Type



► 3, 4Wire VDC Output Type



Ordering Information

		PTB	B	0010	K	A	P	A		
Model Name								Option		
								A : Normal		
Output								Connecting Methods		
A : mV/V		F : 4Wire 4~20mA						P : Connector		
B : 4Wire 0~5V		G : 3Wire 4~20mA						H : Head		
C : 3Wire 0~5V		H : 2Wire 4~20mA						I : Din 43650-A connector		
D : 4Wire 1~5V		J : 3Wire 0~10V								
E : 3Wire 1~5V		K : 4Wire 0~10V								
Pressure Range								Pressure port		
XXXX : Pressure								A : R(PT)3/8" D : G(PF)1/4"		
CXXX : Compound Pressure								B : G(PF)3/8" G : R(PT)1/8"		
								C : R(PT)1/4" H : G(PF)1/8"		
								Pressure Unit		
								R : kPa M : MPa		
								B : bar K : kgf/cm²		
								P : psi H : mmHg		



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· Specifications are subject to change without notice.