Model PSH

High Performance Pressure Transducer

Description

The PSH model is high precise and its media-wetted materials are composed of stainless steel 316, having excellent corrosion-resistant properties. It is applied to precise measurement and builds an amplifier therein to interface with various kinds of controllers.

Features

- ▶ VDC, mA output
- ▶ Measuring range 0~350kgf/㎠
- ▶ 0.15%FS accuracy
- ▶ Gauge and absolute measurement
- ▶ Piezoresistive silicon cell
- ▶ Stainless steel(316L) media-wetted materials

Applications

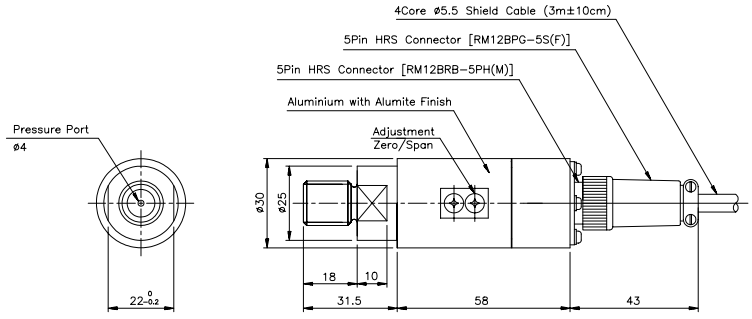
- ▶ Process control
- ▶ Hydraulics & Pneumatic
- ▶ Compressor Control
- ▶ Chillers
- ▶ Refrigeration Equipment

Specifications

Range	
	-760mmHg~0, 0.05, 0.1, 0.2, 0.3, 0.5, 1, 2, 3, 5, 7, 20, 35, 70, 200, 350 kgf/㎠ (Gauge, Absolute)
Performance	
Accuracy	±0.15%FS(RSS)
Thermal Effect on Zero	±0.03%FS/℃
Thermal Effect on Span	±0.03%FS/℃
Compensated Temperature Range	0 ~ 70℃
Operating Temperature Range	-20 ~ 80℃
Electrical	
Excitation	11 ~ 28VDC
Output	0~5VDC, 1~5VDC, 0~10VDC(3, 4Wire) 4~20mA(2, 3 Wire)
Electrical Connection	Connector, Head, Din Connector
Physical	
Proof Pressure	300%FS Max.
Burst Pressure	500%FS Min.
Vibration	49.1m/s²{5G}, 10~500Hz
Shock	490m/s²{50G}
Pressure port	PT1/8", PF1/8", PT1/4", PF1/4", PT 3/8", PF 3/8"
Media-Wetted Materials	Stainless Steel 316L, Viton
Weight	Connector type : Approx. 140g (Sensor Only)

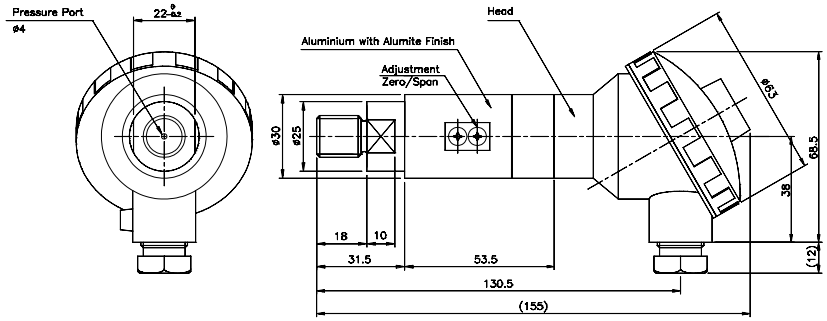
Dimension

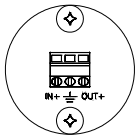
▶ Connector Type



Pin No.	Wire Color	Connections		
		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

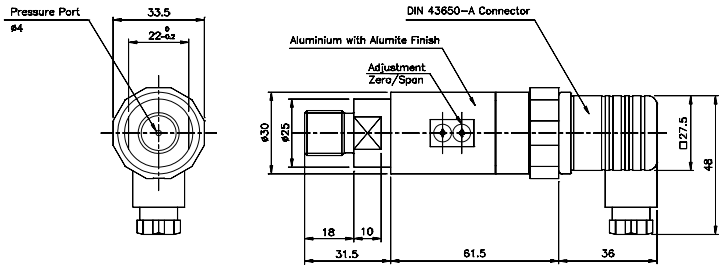


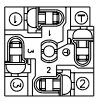


Terminal

No.	Connections
	2Wire
1	Input ⊕
2	Earth
3	Output ⊕

▶ Din connector Type



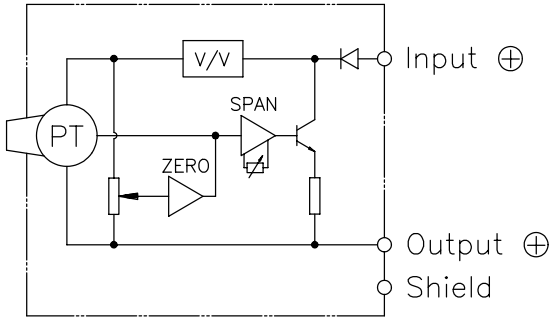


Terminal

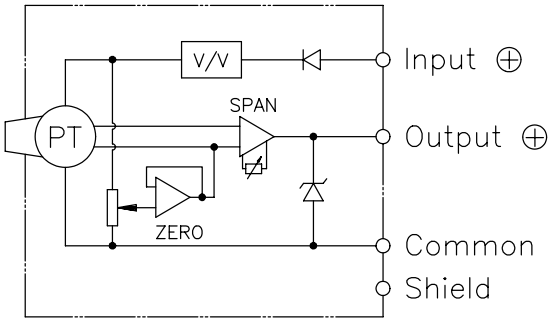
Pin No.	Connections	
	3Wire	2Wire
1	Input ⊕	Input ⊕
2	Common⊖	Output ⊕
3	Output ⊕	×
⏚	Earth	Earth

Internal Circuit Diagram

▶ 2Wire mA Output Type



▶ 3, 4Wire VDC Output Type



Ordering Information

PSH B 0001 K A A G

Model Name

Output

B : 4Wire 0~5V	G : 3Wire 4~20mA
C : 3Wire 0~5V	H : 2Wire 4~20mA
D : 4Wire 1~5V	J : 3Wire 0~10V
E : 3Wire 1~5V	K : 4Wire 0~10V
F : 4Wire 4~20mA	

Pressure Range

-760 : 0~-760mmHg	0005 : 0~5kgf/㎠
0.05 : 0~0.05kgf/㎠	0007 : 0~7kgf/㎠
00.1 : 0~0.1kgf/㎠	0020 : 0~20kgf/㎠
00.2 : 0~0.2kgf/㎠	0035 : 0~35kgf/㎠
00.3 : 0~0.3kgf/㎠	0070 : 0~70kgf/㎠
00.5 : 0~0.5kgf/㎠	0200 : 0~200kgf/㎠
0001 : 0~1kgf/㎠	0350 : 0~350kgf/㎠
0002 : 0~2kgf/㎠	CXXX : Compound Pressure
0003 : 0~3kgf/㎠	

Pressure Unit

K : kgf/㎠	B : bar
P : psi	M : MPa
H : mmHg	C : cmH_2O

Pressure port

A : PT3/8"	D : PF1/4"
B : PF3/8"	G : PT1/8"
C : PT1/4"	H : PF1/8"

Connecting Methods

A : Connector
B : Water proof connector
H : Head
I : Din 43650-A connector

Type of Pressure Measurement

G : Gauge
J : Absolute