Model PHP

Pressure Transducer for Precision Measurements

Description

The PHP digital pressure transducer is a high accuracy and performance for precision pressure measurement component that uses either RS-232 to communicate with host computer and analog output. The PHP have a excellent small temperature error below 0.025% in the range of $-10\sim50\%$. The communication S/W is included in delivery.

Features

- ▶ VDC, mA Analog output
- ► RS232 Digital output
- ► Measuring range 0~150MPa
- ▶ 0.035%FS accuracy
- ► Gauge and absolute measurement
- ▶ Stainless steel media-wetted materials

Applications

- ► Measurement and test benches
- ► Calibration technology
- ► Laboratories
- ▶ Plant construction and machine building





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0 ~ 100kPa ... 150MPa(Gauge) -100kPa ~ 0 ~ 100kPa ... 150MPa(Gauge) 0 ~ 100kPa ... 70MPa(Absolute)

	-100kPa ~ 0 ~ 100kPa 150MPa(Gauge)
	0 ~ 100kPa 70MPa(Absolute)
Performance	
Accuracy	±0.035%FS(RSS)
Thermal Effect on Zero	±0.025%FS
Thermal Effect on Span	±0.025%FS
Long-term Stability	±0.05%FS/year
Compensated Temperature Range	-10 ~ 50°C
Operating Temperature Range	-20 ~ 80°C
Electrical	
Excitation	11 ~ 32VDC
Analog Output	0~5VDC, 1~5VDC, 0~10VDC, 4~20mA(3Wire)
Digital Output	RS232(19200, 8, n, 1)
Electrical Connection	TAJIMI Connector
Physical	
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Analog Output 0~5VDC, 1~5VDC, 0~10VDC, 4~20mA(3Wire)

Digital Output RS232(19200, 8, n, 1)

Electrical Connection TAJIMI Connector

Physical

Proof Pressure X1.5 or 150MPa, Whichever is less.

Burst Pressure X2 or 150MPa, Whichever is less.

Vibration 49.1m/s²{5G}, 10~500Hz

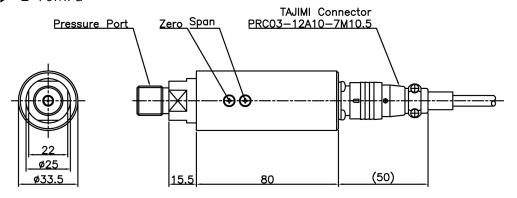
Shock 490m/s²{50G}

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 316L, Viton (>70MPa : Stainless Steel 303, Titanium 87% Alloy)

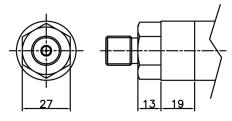
Weight Connector type : Approx. 270g (Sensor Only)

≥ 70MPa



Pin No.	Wire Color	Connections
Α	White	GND
В	Red	Excitation ⊕
С	Shield	FG
D	Green	Analog Output ⊕
Е	Yellow	TXD
F	Black	GND
G	Blue	RXD

> 70MPa



Ordering Information

PHP C 0100 R D T G

Model Name Output C: 0~5V, RS232 E: 1~5V, RS232 J: 0~10V, RS232 G: 4~20mA(3Wire), RS232 Pressure Range XXXX: Pressure CXXX: Compound Pressure

G: Gauge
J: Absolute

Connecting Methods

T : TAJIMI Connector

 Pressure port

 A: R(PT)3/8"
 E: PT1/2"

 B: G(PF)3/8"
 Q: PF1/2"

 C: R(PT)1/4"
 G: PT1/8"

 D: G(PF)1/4"
 H: PF1/8"

Pressure Unit

N: inchH2O