

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 -10~50°C. The communication S/W is included in delivery.

Features

- ▶ CE Certified
- ▶ Vdc, 4~20mA(2W) Analog output
- ▶ RS232 Digital output(Only Vdc 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

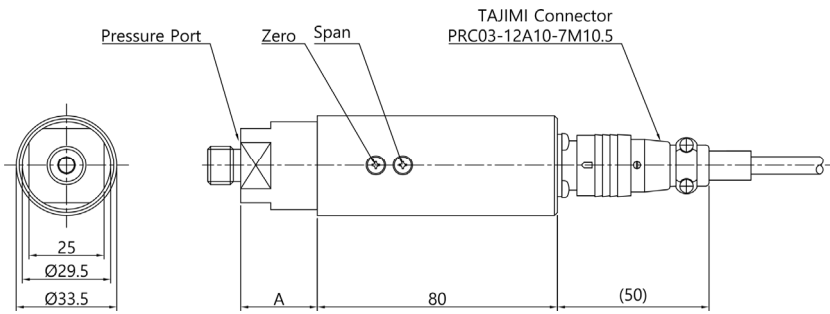


Specifications

Model	PHPH	PHP□
Range	0~15kPa ... 100MPa(Gauge)	0~15kPa ... 150MPa(Gauge)
	-100kPa~0~100kPa ... 100MPa(Compound Gauge)	-100kPa~0~100kPa ... 150MPa(Compound Gauge)
	0~100kPa ... 70MPa(Absolute)	
Accuracy	Gauge : $\pm 0.035\%FS$, Other : $\pm 0.05\%FS$	
Thermal Effect on Zero	$\pm 0.025\%FS$	
Thermal Effect on Span	$\pm 0.025\%FS$	
Long-term Stability	$\pm 0.05\%FS/year$	
Compensated Temperature Range	-10 ~ 50°C	
Operating Temperature Range	-20 ~ 80°C	
Excitation	11~28Vdc	
Analog Output	4~20mA(2Wire)	0~5, 1~5, 0~10Vdc
Digital Output	-	RS232(19200, 8, n, 1)
Response Time	100ms	
Electrical Connection	TAJIMI Connector	
Proof Pressure	X1.5 or 150MPa, Whichever is less.	
Burst Pressure	X2 or 150MPa, Whichever is less.	
Pressure port	R(PT) or G(PF) or NPT1/4"	R(PT) or G(PF) 1/8", 1/4", 3/8"
Media-Wetted Materials	Stainless Steel 316L, VITON (>35MPa : Stainless Steel 303, Titanium 87% Alloy)	
Weight	Approx. 270g (Sensor Only)	

Dimension

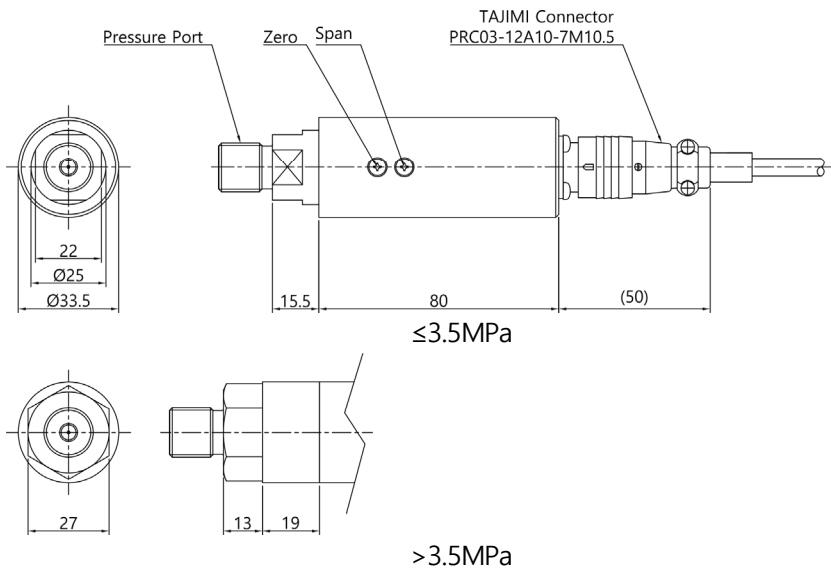
► PHPH



Pin No.	Wire Color	Connections
A	Black	⊖
B	Red	⊕
C	Shield	FG
D		
E		
F		
G		

Type of Pressure Measurement	Range(MPa)	A
Absolute	>3.5	21.5
Gauge, Absolute	≤3.5	25.5
Gauge	>3.5	27

► PHP□



Pin No.	Wire Color	Connections
A	White	GND
B	Red	Excitation⊕
C	Shield	FG
D	Green	Analog Output⊕
E	Yellow	TXD
F	Black	GND
G	Blue	RXD

Ordering Information

Model Name	PHP	C	0100	R	D	T	G	Type of Pressure Measurement
								G : Gauge J : Absolute
Output								Connecting Methods
C : 0~5V, RS232 E : 1~5V, RS232 J : 0~10V, RS232 H : 4~20mA(2Wire)								T : TAJIMI Connector
Pressure Range								Pressure port
XXXX : Pressure CXXX : Compound Pressure								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
								R : kPa M : MPa B : bar K : kgf/cm² P : psi H : mmHg I : inchHg T : Torr D : mmH₂O C : cmH₂O N : inchH₂O

Sensys

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. Specifications are subject to change without notice.