



CE



PHP

Pressure Transmitter for Precision Measurements

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 0.035% in the range of -10 ~ 50°C. The communication S/W is included in delivery.

- VDC Analog output (option)
- RS232 Digital output
- Measuring range -1 ~ 1000 bar
- 0.035%FS accuracy
- Gauge and absolute measurement
- Stainless steel media-wetted materials
- CE Certified
- Measurement and test benches
- Calibration technology
- Laboratories
- Plant construction and machine building

01 Specification

Range	Gauge Pressure	0 ~ 150, 350 mbar / 1, 2, 3.5, 7 bar 0 ~ 20, 35, 70, 100, 200, 250, 350, 400, 600, 700, 1000 bar
	Absolute Pressure	0 ~ 1, 2, 3.5, 7 bar / 0 ~ 20, 35, 70, 200, 350, 700 bar
	Compound Pressure	-1 ~ 1, 2, 3.5, 7 bar / -1 ~ 20, 35, 70, 100, 200, 350, 400, 600, 700, 1000 bar
Performance	Accuracy	±0.035% FS (Gauge pressure) ±0.05% FS (Compound, Absolute pressure)
	Thermal Effect on Zero	±0.025% FS
	Thermal Effect on Span	±0.025% FS
	Long-term Stability	±0.05% FS/year
	Compensated Temp. Range	-10 ~ 50 °C
	Operating Temp. Range	-20 ~ 80 °C
	Sampling rate	4 Hz (Can be set up to 50 Hz) , Accuracy guarantees are based on 4 Hz
Electrical	Excitation	11 ~ 32 VDC
	Analog Output (option)	0 ~ 5 VDC, 1 ~ 5 VDC, 0 ~ 10 VDC
	Digital Output	RS232 (19200, 8, n, 1)
	Electrical Connection	TAJIMI PRC03-21A10-7F / PRC03-12A10-7M10.5 + 3m cable
Physical	Proof Pressure	≤1000 bar : 150%FS Max. / >1000 bar : 110%FS Max.
	Burst Pressure	≤1000 bar : 200%FS Min. / >1000 bar : 110%FS Min.
	Pressure port	1/8" BSPT, 1/8" BSPP, 1/4" BSPT, 1/4" BSPP, 1/4" NPT, 3/8" BSPT, 3/8" BSPP, 9/16" UNF
	Media-Wetted Materials	Stainless Steel 316L, Viton (>350 bar : Stainless Steel 303, Titanium 87% Alloy)
	Weight	Connector type : Approx. 270g (Sensor Only)

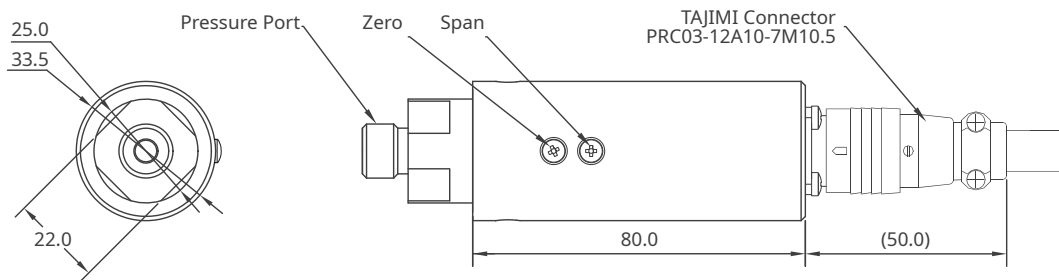


PHP

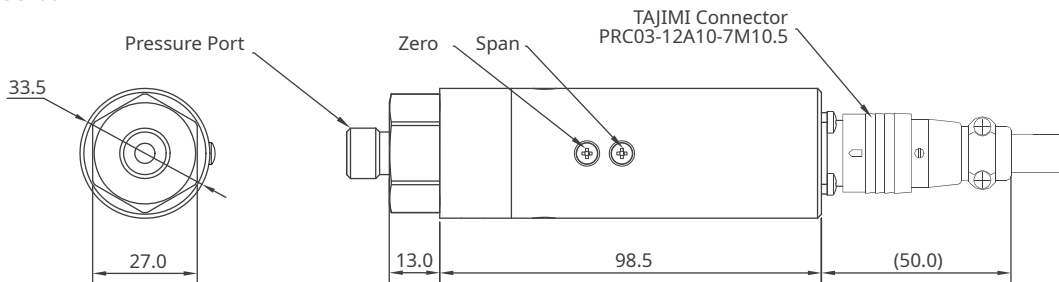
02 DIMENSIONS

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

≤ 35 bar



> 35 bar



03 Order Information

Ex) PHP - 100 M G N E (PHP-100MGNE)

Pressure Unit	
R : kPa	M : MPa
B : bar	K : kgf/cm ²
P : psi	H : mmHg
I : inchHg	T : Torr
D : mmH ₂ O	C : cmH ₂ O
N : inchH ₂ O	

Pressure Type	
G = Gauge	A = Absolute
C = Compound	

Analog Output	
E = 1~5 V	C = 0~5 V
J = 0~10 V	N = None

Pressure port	
A = 3/8 BSPT	E = 1/2 BSPT
B = 3/8 BSPP	Q = 1/2 BSPP
C = 1/4 BSPT	G = 1/8 BSPT
D = 1/4 BSPP	H = 1/8 BSPP
K = 9/16" UNF(Only ≥ 1000 bar)	
L = 1/4 NPT	