

PRESSURE TRANSDUCERS

PW-PAH High temperature Pressure Transducer

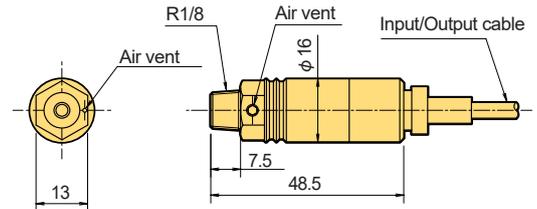
2~50MPa



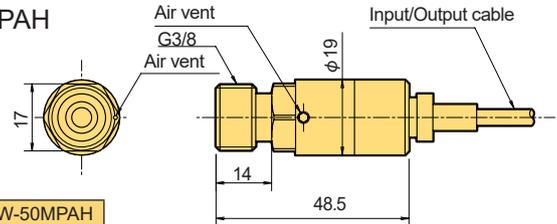
The PW-PAH pressure transducer is designed to measure pressure in a high temperature with compact size. As the model equipped with a fluoroplastic Input/Output cable, a high temperature pressure measurement is available up to 170°C. These models line up five ranges of 2, 5, 10, 20 and 50MPa.

Protection ratings: IP65 equivalent

PW-2MPAH~ 20MPAH



PW-50MPAH



Gases and liquids pressure measurement in high temperature +170°C at max.
Smallest size with 16mm-dia. 48.5mm long

SPECIFICATIONS

TYPE	PW-2MPAH	PW-5MPAH	PW-10MPAH	PW-20MPAH	PW-50MPAH
Capacity	2MPa	5MPa	10MPa	20MPa	50MPa
Rated Output	2mV/V(4000× 10 ⁻⁶ strain) ±25%				
Non-linearity	0.3%RO				
Hysteresis	0.2%RO				
Repeatability	0.2%RO				
Temperature effect on zero	0.008%RO/°C				
Temperature effect on span	0.01%/°C				
Compensated temperature range	-40 ~ +150°C				
Allowable temperature range	-40 ~ +170°C				
Over load	150%				
Input/Output resistance	350Ω				
Recommended exciting voltage	5V or less				
Allowable exciting voltage	10V				
Mounting thread	R1/8 (Male)			G3/8 (Male)	
Materials of pressure media	SUS630				
Weight	50g			70g	

Supplied cable :

CT4-4F5/SNP-STB (φ4mm 0.08mm² 4-core shielded fluoroplastic resin cable 5m)

PWFA-PA Small High-Temperature Pressure Transducer with built-in amplifier

2~20MPa



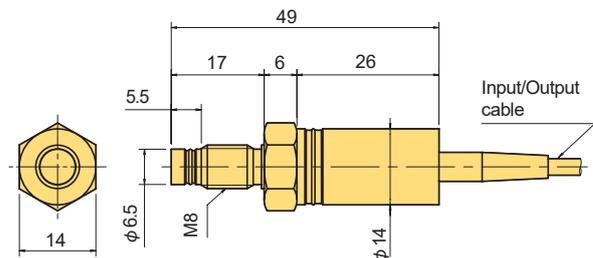
The PWFA-PA is a M8 bolt-shaped flush diaphragm pressure transducer with a built-in strain amplifier. Since the PWFA-PA is small sized and can be used for dynamic measurement in high temperature ranges, it is most suited to in-vehicle measurement of hydraulic oil pressure of engine, motor, transmission, oil pump and so on.

Protection ratings: IP65 equivalent

Excellent anti-vibration characteristics

Measurement possible in high temperature up to 120°C
Light weight of 45 g, which is less than half of conventional products.

Overall length after installation is 32 mm, which is less than one third of conventional products



SPECIFICATIONS

TYPE	PWFA-2MPA	PWFA-5MPA	PWFA-10MPA	PWFA-20MPA
Capacity	2MPa	5MPa	10MPa	20MPa
Output voltage	0.5 ~ 5V			
Non-linearity	0.5%RO			
Hysteresis	0.3%RO			
Temperature effect on zero	0.1%RO/°C			
Temperature effect on span	0.03%/°C			
Compensated temperature range	-20 ~ +120°C			
Allowable temperature range	-20 ~ +120°C			
SN ratio	50dB or more			
Load resistance	5kΩ or more			
Frequency response of amplifier	DC ~ 1kHz			
Over load	150%			
Mounting thread	M8			
Materials of pressure media	SUS630			
Weight	45g			

Input/Output cable :

φ3mm 0.08mm² 4-core shielded fluoroplastic cable 5m)

NB: A zero point may drift for a long term con-tinuous use in high temperature.