

PRESSURE TRANSDUCERS

PW-PAH High temperature Pressure Transducer

2~50MPa



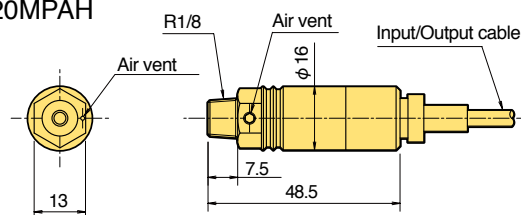
The PW-PAH pressure transducer is designed to measure pressure in a high temperature with compact size. As the model equipped with a fluoroplastic Input/Output cable, a high temperature pressure measurement is available up to 170°C. These models line up five ranges of 2, 5, 10, 20 and 50MPa.

Protection ratings: IP65 equivalent

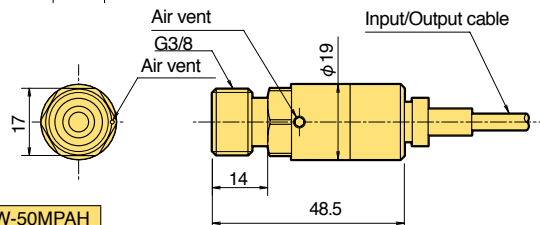
SPECIFICATIONS

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	

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

Supplied cable :
CT4-4F5/SNP-STB (φ 4mm 0.08mm² 4-core shielded fluoroplastic resin cable 5m)

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

2~20MPa

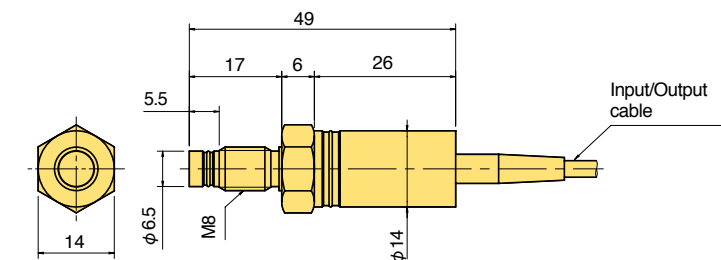


The PWFA-PA is a M8 bolt-shaped flush diaphragm pressure transducer with a built-in strain amplifier. Since the PWFA-PA is small sized and can be used for dynamic measurement in high temperature ranges, it is most suited to in-vehicle measurement of hydraulic oil pressure of engine, motor, transmission,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

Protection ratings: IP65 equivalent

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			



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

Input/Output cable :
φ 3mm 0.08mm² 4-core shielded fluoroplastic cable 5m)

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