

PAB-A

Absolute Pressure Transducers

● Measurement from Absolute Pressure Zero (Vacuum) ● 200 kPa_{abs.} to 2 MPa_{abs.}



PAB-A series is the compact and lightweight pressure transducers which enable pressure measurement in a range of absolute pressure zero to 2 MPa, stably for a long period of time. Developed for pressure measurement on airplanes and flying objects, these transducers passed high-temperature and vibration tests in conformity to MIL-STD-810C and can widely be used in various industrial and engineering fields.

Features

- Absolute pressure measurement possible
- Highly stable
- Highly reliable (conforming to MIL-STD-810C)

Specifications

Performance

Rated Capacity: See table below.
Nonlinearity: Within $\pm 0.1\%$ RO
Hysteresis: Within $\pm 0.1\%$ RO
Rated Output: 2 mV/V (4000 $\mu\text{m/m}$) or more

Environmental Characteristics

Safe Temperature Range: -30 to 80°C
Compensated Temperature Range: -20 to 70°C
Temperature Effect on Zero Balance: Within $\pm 0.01\%$ RO/ $^\circ\text{C}$
Temperature Effect on Output: Within $\pm 0.01\%$ / $^\circ\text{C}$

Electrical Characteristics

Safe Excitation Voltage: 8 VAC or DC
Recommended Excitation Voltage: 1 to 3 VAC or DC
Input Resistance: $367 \Omega \pm 2\%$
Output Resistance: $350 \Omega \pm 2\%$
Cable: 4-conductor (0.3 mm^2) chloroprene shielded cable, 7.6 mm diameter by 3 m long, bared at the tip (Shield wire is connected to mainframe.)

Mechanical Properties

Safe Overload Rating: 150%
Natural Frequency: See table below.
Material: SUS 630 (Liquid-contacting part)
Weight: Approx. 130 g
Mounting Screw: 7/16-20UNF

Standard Accessories O-ring (JIS B 2401-P15)

Model	Rated Capacity	Natural Frequency (Approx.)
PAB-A-200KP	200 kPa _{abs.}	5 kHz
PAB-A-500KP	500 kPa _{abs.}	8 kHz
PAB-A-1MP	1 MPa _{abs.}	10 kHz
PAB-A-2MP	2 MPa _{abs.}	12 kHz

Dimensions

