PAB-A

Absolute Pressure Transducer



Highly reliable type (Compliant with MIL-STD-810C)

- **Rated capacity: 200 kPa abs. to 2 MPa abs.**
- **Detachable cable for easy installation**

Compact and lightweight pressure transducers with superior long-term stability that accurately measure pressure fluctuations from absolute pressure zero (vacuum pressure) to 2 MPa abs. Originally designed for aircraft and other flying vehicles, these pressure transducers can be used to measure pressure in various industrial and engineering fields.

Specifications

Performance	
Rated Capacity	See table below.
Nonlinearity	Within ±0.15% RO
Hysteresis	Within ±0.1% RO
Repeatability	0.1% RO or less
Rated Output	2 mV/V or more
Environmental Characteristics	
Safe Temperature	−30 to 80℃
Compensated Temperature	−20 to 70℃
Temperature Effect on Zero	Within ±0.01% RO/℃
Temperature Effect on Output	Within ±0.01%/℃
Electrical Characteristics	
Safe Excitation	8 V AC or DC
Recommended Excitation	1 to 3 V AC or DC
Input Resistance	367 Ω ±2%
Output Resistance	350 Ω ±2%
Accessory Cable	4-conductor (0.3 mm²) chloroprene shielded cable, 7.6 mm diameter by 3 m long,
	Sensor side: Terminated with a waterproof connector plug 1108-12A10-7F
	Measuring instrument side: Bared at the tip.
	(Shield wire is connected to the case.)
Mechanical Properties	
Safe Overloads	150%
Natural Frequencies	See table below.
Material	Liquid-contacting part: SUS630
Weight	Approx. 130g (Excluding cable)
Mounting Screw	7/16-20UNF male
Degree of Protection	IP52 (JIS C 0920/IEC 60529)
Compliance	Directive 2011/65/EU, (EU)2015/863 (10 restricted substances) (RoHS)

■Standard Accessories O-ring JIS B 2401-P15

■Models

Model	Rated Capacity*	Natural Frequencies (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

*KYOWA attaches "abs." to the above rated capacity just for convenience to denote that it is an absolute pressure.

■Dimensions



