PAB-A Measurement from absolute pressure zero (vacuum) 200 kPaabs. to 2 MPaabs. Absolute Pressure Transducer



Compact & lightweight Highly stable

- Possible to measure absolute pressure
- •Highly stable
- ●Highly reliable (Conforming to MIL-STD-810C)

PAB-A series pressure transducers allow absolute pressure to be measured from zero to 2 MPa_{abs}. for long-term. Developed for pressure measurement on airplanes and flying objects, these transducers pass high-temperature and vibration tests in conformity to MIL-STD-810C and is widely used in various industrial and engineering fields.

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Performance						
Performance						
Rated Capacity	See table below.					
Nonlinearity	Within ±0.1% RO					
Hysteresis	Within ±0.1% RO					
Repeatability	0.1% RO or less					
Rated Output	2 mV/V or more					
Environment	al Characteristics					
Safe Temperatu						
Compensated T	1					
Temperature Effect on Zero Within ±0.01% RO/°C						
Temperature Ef	fect on Output Within ±0.01%/°C					
Electrical Cha	resteristics					
Electrical cha	acteristics					
Safe Excitation	8 V AC or DC					
	8 V AC or DC					
Safe Excitation	8 V AC or DC Excitation 1 to 3 V AC or DC					
Safe Excitation Recommended	8 V AC or DC Excitation 1 to 3 V AC or DC e 367 Ω ±2%					
Safe Excitation Recommended Input Resistanc Output Resistar	8 V AC or DC Excitation 1 to 3 V AC or DC e 367 Ω ±2%					
Safe Excitation Recommended Input Resistanc Output Resistar	8 V AC or DC Excitation 1 to 3 V AC or DC e 367 Ω ±2% nce 350 Ω ±2%					
Safe Excitation Recommended Input Resistanc Output Resistar	8 V AC or DC Excitation 1 to 3 V AC or DC e $367 \Omega \pm 2\%$ nce $350 \Omega \pm 2\%$ e 4 -conductor (0.3 mm²) chloroprene shielded cable,					
Safe Excitation Recommended Input Resistanc Output Resistar	8 V AC or DC Excitation 1 to 3 V AC or DC e 367 Ω ±2% nce 350 Ω ±2% e 4-conductor (0.3 mm²) chloroprene shielded cable, 7.6 mm diameter by 3 m long					
Safe Excitation Recommended Input Resistanc Output Resistar	8 V AC or DC Excitation 1 to 3 V AC or DC e 367 Ω ±2% nce 350 Ω ±2% e 4-conductor (0.3 mm²) chloroprene shielded cable, 7.6 mm diameter by 3 m long Sensor side: Terminated with a waterproof connector					

Mechanical Properties

Safe Overloads	150%				
Natural Frequencies	See table below.				
Material	Case: Stainless steel				
	Liquid-contacting part: SUS 630				
Weight	Approx. 130 g (Excluding cable)				
Mounting Screw	7/16-20UNF, male				
Degree of Protection	IP52 (IEC 60529)				

Standard Accessories O-ring JIS B 2401-P15

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

(Note) Kyowa attaches "abs." to the above rated capacity just for convenience to denote that it is an absolute pressure.



Outline

General

High temp. Low temp.

Absolute pressure High pressure

Pressure transmitter

Differential pressure

Distributed pressure



