PHS-B

Highly Reliable Pressure Transducer



Absolute pressure measurement in high/low temperatures

- **Rated capacity: 200 kPa abs. to 20 MPa abs.**
- **High temp (compensated: -30 to 200˚C)**

Transducers with a sputter gage* for stable measurement even in high temperatures.

*A sputter gage is a strain gage that uses thin-film resistive elements formed by sputtering.

Specifications

Performance	
Rated Capacity	See table below.
Nonlinearity	Within ±0.2% RO
Hysteresis	Within ±0.2% RO
Rated Output	1.5 mV/V or more
Environmental Characteristics	
Safe Temperature	−196 to 230℃
Compensated Temperature	−30 to 200℃
Temperature Effect on Zero	Within ±0.02% RO/℃
Temperature Effect on Output	Within ±0.015%/℃
Electrical Characteristics	
Safe Excitation	15 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	900^{+100}_{-150} Ω
Output Resistance	900^{+100}_{-150} Ω
Cable	4-conductor (0.08 mm²) fluoroplastic shielded cable, 3.1 mm diameter
	by 5 m long, bared at the tip (Shield wire is not connected to the case.)
Mechanical Properties	
Safe Overloads	150%
Natural Frequencies	See table below.
Material	Case: Stainless steel
	Liquid-contacting part: SUS630
Weight	Approx. 130 g (Excluding cable)
Mounting Screw	G3/8, male
Compliance	Directive 2011/65/EU,(EU)2015/863(10 restricted substances) (RoHS)

■Standard Accessories Gasket (Mild copper)

■Models

Model	Rated Capacity*1	Natural Frequencies (Approx.)
PHS-B-200KP	200 kPa abs.	5 kHz
PHS-B-500KP	500 kPa abs.	7 kHz
PHS-B-1MP	1 MPa abs.	20 kHz
PHS-B-2MP	2 MPa abs.	30 kHz
PHS-B-5MP	5 MPa abs.	50 kHz
PHS-B-10MP	10 MPa abs.	70 kHz
PHS-B-20MP	20 MPa abs.	100 kHz

*1 KYOWA attaches "abs." to the above rated capacity just for convenience to denote that it is an absolute pressure.
*TEDS-installed models are available. Please contact us.

To Ensure Proper Usage

When a strain amplifier or conditioner card (DPM-912B, 952A, 913C, 42B, 92A) with a carrier-wave frequency of 12 kHz or more is used, rated output specifications may not be satisfied. Please contact us for combined calibration.

■Dimensions

