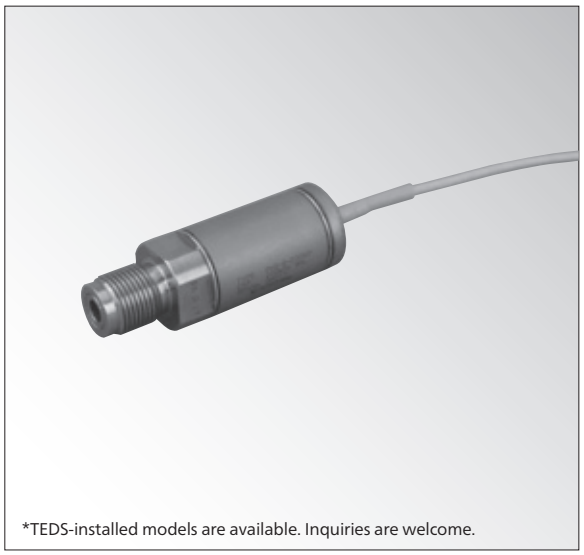
PHS-B

●Long-term Stability at 200˚C
●200 kPa$_{abs.}$ to 20 MPa$_{abs.}$

Highly Reliable Pressure Transducer (Sputter-gage type)



*TEDS-installed models are available. Inquiries are welcome.

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°C
Compensated Temperature	-30 to 200°C
Temperature Effect on Zero	Within ±0.02% RO/°C
Temperature Effect on Output	Within ±0.015%/°C

Electrical Characteristics

Safe Excitation	15 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	900 Ω $^{100}_{-150}$ Ω
Output Resistance	900 Ω $^{100}_{-150}$ Ω
Cable	4-conductor (0.09 mm^2) fluoroplastic shielded cable, 5 m long, 3.1 mm diameter, bared at the tip (Shield wire is not connected to the case.)

Mechanical Properties

Safe Overloads	150%
Natural Frequencies	See table below.
Materials	Case: SUS (Metallic finish)
	Liquid-contacting part: SUS 630
Weight	Approx. 130 g (Excluding cable)
Mounting Screw	G3/8, male

Standard Accessories Gasket (Mild copper)

Models	Rated Capacity	Natural Frequencies
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--B20MP	20 MPa$_{abs.}$	≈ 100 kHz

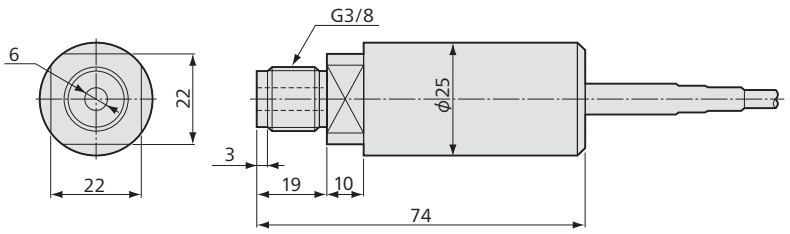
Both High and Low Temperatures Possible to Measure Absolute Pressure Excellent High-temperature

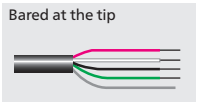
PHS-B series pressure transducers have the thin-film strain gage and temperature-compensating resistive membrane formed directly on the diaphragm by sputtering and photo-lithography, thereby enabling accurate temperature compensation even at high temperatures.

To Ensure Safe Usage

High-carrier-based dynamic strain amplifier DPM-912, 913 or 952 may not satisfy the specified rated output in some rare case. Request us to calibrate the transducer in combination with the strain amplifier. Or, if possible, use dynamic strain amplifier DPM-911 or 951 or signal conditioner CDV-900A.

Dimensions





●Physical quantity indication ●Dynamic measurement

PHS-B Recommended products for combination


Instrumentation Amplifier WGA-680A → 3-97


Strain Amplifier DPM-900 Series → 3-5


Signal Conditioner CDV-900A → 3-9


Universal Recorder EDX-100A → 3-63


Memory Recorder/Analyzer EDX-5000A → 3-68