

PG-H

High Pressure Transducers

● Highly Reliable Inert Gas Sealed Structure ● 100 & 200 MPa



Available with rated capacities of 100 and 200 MPa, the PG-H series pressure transducers are hermetically sealed with inert gas filled in, enabling stable measurement for a long period of time.

Features

- Compact and lightweight
- Highly accurate
- Highly reliable
- Highly durable

Specifications

Performance

Rated Capacity:

Model	Rated Capacity (Reference Value)
PG-1TH	100 MPa (1.020 tf/cm ²)
PG-2TH	200 MPa (2.039 tf/cm ²)

Nonlinearity: Within $\pm 0.2\%$ RO

Hysteresis: Within $\pm 0.2\%$ RO

Rated Output: 1.5 mV/V (3000 $\mu\text{m/m}$) $\pm 0.5\%$

Environmental Characteristics

Safe Temperature Range: -20 to 80°C

Compensated Temperature Range: -10 to 70°C

Temperature Effect on Zero Balance: Within $\pm 0.02\%$ RO/ $^\circ\text{C}$

Temperature Effect on Output: Within $\pm 0.01\%$ / $^\circ\text{C}$

Electrical Characteristics

Safe Excitation Voltage: 15 VAC or DC

Recommended Excitation Voltage: 1 to 10 VAC or DC

Input Resistance: $350\ \Omega \pm 1.5\%$

Output Resistance: $350\ \Omega \pm 1.5\%$

Cable: 4-conductor ($0.3\ \text{mm}^2$) chloroprene shielded cable, 7.6 mm diameter by 3 m long, with waterproof connector plug to transducer and NDIS connector plug to amplifier (Shield wire is not connected to mainframe.)

Mechanical Properties

Safe Overload Rating: 150%

Natural Frequency: 250 kHz

Materials

Case: SUS metallic finish

Liquid-contacting part: SUS 630

Weight: Approx. 220 g

Protection Rating: IP52 (JIS C 0920)

Mounting Screw: G1/2, male

Standard Accessories: Gasket (mild copper)

Avoid using for hydrogen gas.

Dimensions

