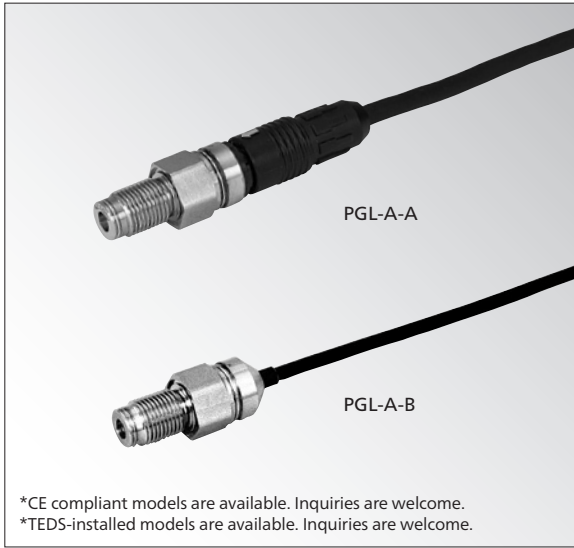


Small-sized Pressure Transducer



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

Compact & lightweight
Highly stable
High frequency response

PGL-A series pressure transducers are suitable for pressure measurement in limited space. The semi-flush diaphragm at the top end ensures excellent response and dynamic characteristics. There are 2 types: A type with removable cable and B type with integrated cable.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.3\%$ RO (2 MPa or less: Within $\pm 0.5\%$ RO)
Hysteresis	Within $\pm 0.2\%$ RO (2 MPa or less: Within $\pm 0.5\%$ RO)
Repeatability	0.2% RO or less
Rated Output	2 mV/V $\pm 20\%$ (2 MPa or less: 2 mV/V $\pm 30\%$)

Environmental Characteristics

Safe Temperature	-20 to 70°C
Compensated Temperature	-10 to 60°C
Temperature Effect on Zero	Within $\pm 0.03\%$ RO/°C (2 MPa or less: Within $\pm 0.05\%$ RO/°C)
Temperature Effect on Output	Within $\pm 0.03\%$ /°C

Electrical Characteristics

Safe Excitation	6 V AC or DC
Recommended Excitation	1 to 3 V AC or DC
Input Resistance	350 Ω $\pm 2\%$
Output Resistance	350 Ω $\pm 2\%$
Cable	PGL-A-A: 4-conductor (0.18 mm ²) vinyl shielded cable, 4.6 mm diameter by 3 m long Sensor side: Terminated with a connector plug HR30-6P-6S Measuring instrument side: Terminated with a connector plug PRC03-12A10-7M PGL-A-B: 4-conductor (0.08 mm ²) vinyl shielded cable, 3.2 mm diameter by 30 cm long, terminated with a connector plug PRC03-12A10-7M (Shield wire is not connected to the case.)

Mechanical Properties

Safe Overloads	150%
Natural Frequencies	See table below.
Material	Liquid-contacting part: SUS 630 Screw part: Nickel plating
Weight	Approx. 20 g (Excluding cable)
Degree of Protection	PGL-A-A: IP67 (IEC 60529) PGL-A-B: IP64 (IEC 60529)
Mounting Screw	G1/8, male

Standard Accessories Gasket (Mild copper) (SS-105 O-ring is also usable. However, use the pressure and temperature range within the O-ring specification range.)

Models		Rated Capacity	Natural Frequencies (Approx.)
Connector Type	Cable Integrated Type		
PGL-A-1MP-A	PGL-A-1MP-B	1 MPa	48 kHz
PGL-A-2MP-A	PGL-A-2MP-B	2 MPa	74 kHz
PGL-A-5MP-A	PGL-A-5MP-B	5 MPa	122 kHz
PGL-A-10MP-A	PGL-A-10MP-B	10 MPa	149 kHz
PGL-A-20MP-A	PGL-A-20MP-B	20 MPa	210 kHz
PGL-A-50MP-A	PGL-A-50MP-B	50 MPa	294 kHz

Dimensions

