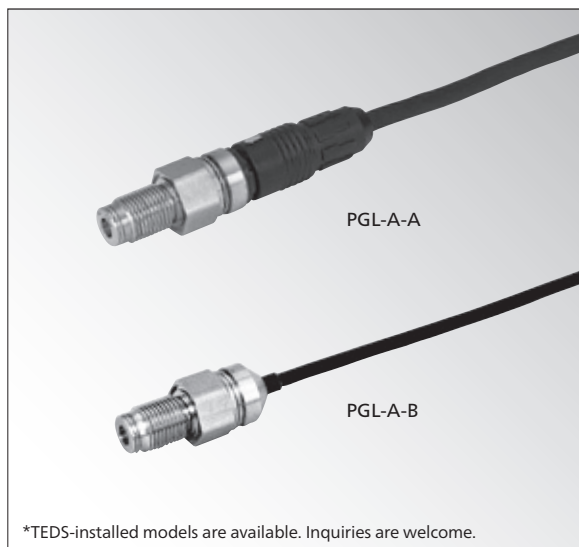


PGL-A

● 1 to 50 MPa

Small-sized Pressure Transducer



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 $\pm 0.5\%$ RO for 1, 2 MPa Within $\pm 0.3\%$ RO for 5 to 50 MPa
Hysteresis	Within $\pm 0.5\%$ RO for 1, 2 MPa Within $\pm 0.2\%$ RO for 5 to 50 MPa
Repeatability	0.2% RO or less
Rated Output	2 mV/V $\pm 20\%$ but $\pm 30\%$ for 1, 2 MPa

Environmental Characteristics

Safe Temperature	-20 to 70°C
Compensated Temperature	-10 to 60°C
Temperature Effect on Zero	Within $\pm 0.05\%$ RO/°C for 1, 2 MPa Within $\pm 0.03\%$ RO/°C for 5 to 50 MPa
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 $\Omega \pm 2\%$
Output Resistance	350 $\Omega \pm 2\%$
Cable	PGL-A-A: 4-conductor (0.18 mm ²) vinyl shielded cable, 4.6 mm diameter by 3 m long, terminated with 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 connector plug PRC03-12A10-7M (Shield wire is not connected to the case.)

Mechanical Properties

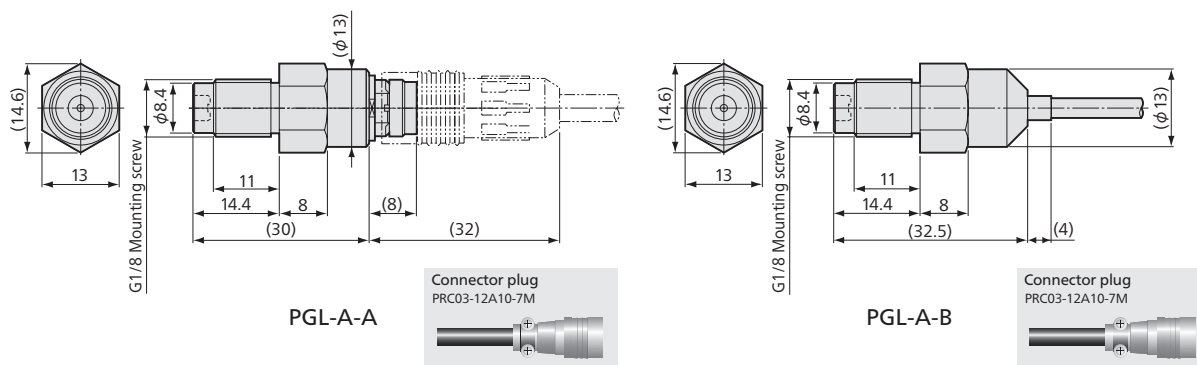
Safe Overloads	150%
Natural Frequencies	See table below.
Material	SUS 630 (Liquid-contacting part)
Weight	Approx. 20 g (Excluding cable)
Degree of Protection	PGL-A-A: IP67 (IEC 60529) PGL-A-B: IP64 (IEC 60529)
Mounting Screw	G1/8, male

Standard Accessories

Gasket (Mild copper) (SS-105 O-ring is also usable.)

Models		Rated Capacity	Natural Frequencies
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



● Physical quantity indication ● Static measurement ● Dynamic measurement

PGL-A
Recommended
products for
combination

