PGL-A

Small-sized Pressure Transducer



Compact and lightweight

- Rated capacity: 1 to 50 MPa
- Available with detachable or integrated cable
- Degree of protection: IP67 (PGL-A-A)

Compact and lightweight transducers with a semi-flush diaphragm tip, suitable for pressure measurement in limited spaces.

Specifications

Performance	
Rated Capacity	See table below.
Nonlinearity	Within ±0.3% RO (2 MPa or less: Within ±0.5% RO)
Hysteresis	Within ±0.2% RO (2 MPa or less: Within ±0.5% RO)
Repeatability	0.2% RO or less
Rated Output	2 mV/V ±20% (2 MPa or less: 2 mV/V ±30%)
Environmental Characteristics	
Safe Temperature	−20 to 70℃
Compensated Temperature	−10 to 60℃
Temperature Effect on Zero	Within ±0.03% RO/℃
	(2 MPa or less: Within ±0.05% RO/℃)
Temperature Effect on Output	Within ±0.03%/℃
Electrical Characteristics	
Safe Excitation	6 V AC or DC
Recommended Excitation	1 to 3 V AC or DC
Input Resistance	350 Ω ±2%
Output Resistance	350 Ω ±2%
Cable	PGL-A-A
	4-conductor (0.18 mm²) 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
	(Shield wire is not connected to the case.)
	PGL-A-B
	4-conductor (0.08 mm²) 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: SUS630
	Screw part: Nickel plating
Weight	Approx. 20 g (Excluding cable)
Mounting Screw	G1/8 male
Degree of Protection	PGL-A-A: IP67 (JIS C 0920/IEC 60529)
	PGL-A-B: IP64 (JIS C 0920/IEC 60529)
Compliance	Directive 2011/65/EU,(EU)2015/863(10 restricted substances) (RoHS)

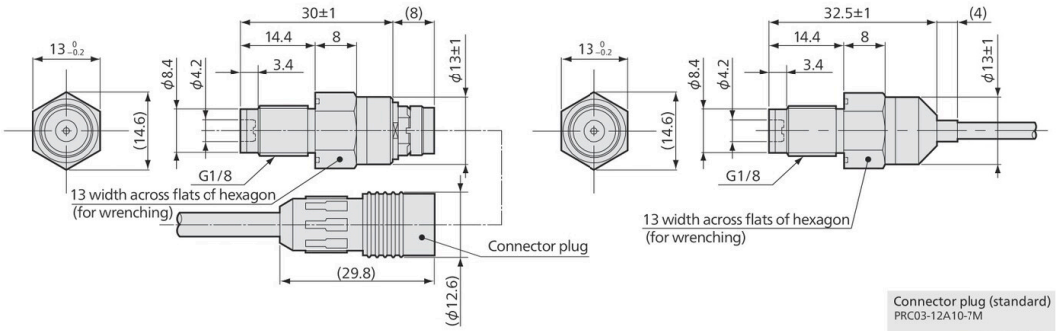
Models

Model		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

*TEDS-installed models are available. Please contact us.

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.)

Dimensions



PGL-A-A PGL-A-B

Connector plug (standard)
PRC03-12A10-7M



Strain Gage
Load Cell
Pressure Sensor
Acceleration Sensor
Torque Sensor
Displacement Sensor
Component Force Sensor
Automotive Sensor
Civil Engineering Sensor