PGS-A

Small-sized Pressure Transducer



Compact

- **Rated capacity: 1 to 50 MPa**
- **Detachable cable for easy installation**

Transducers designed and manufactured with high input/output resistance.

Specifications

Performance	
Rated Capacity	See table below.
Nonlinearity	Within ±0.2% RO
	(20KA: Within ±0.3% RO) (10KA: Within ±0.4% RO)
Hysteresis	Within ±0.2% RO
Repeatability	0.1% RO or less
Rated Output	2 mV/V ±0.5%
Environmental Characteristics	
Safe Temperature	−20 to 70℃
Compensated Temperature	−10 to 60℃
Temperature Effect on Zero	Within ±0.02% RO/℃
Temperature Effect on Output	Within ±0.01%/℃
Electrical Characteristics	
Safe Excitation	15 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	600 Ω ±17.5%
Output Resistance	500 Ω ±1%
Accessory Cable	4-conductor (0.3 mm²) chloroprene shielded cable,
	4.5 mm diameter by 3 m long
	Sensor side:
	Terminated with a connector plug R06-P5F
	Measuring instrument side:
	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	Case: Anode oxidized coated aluminum
	Liquid-contacting part: SUS630
Weight	Approx. 120 g (Excluding cable)
Degree of Protection	IP52 (JIS C 0290/IEC 60529)
Mounting Screw	G3/8, male
Compliance	Directive 2011/65/EU,(EU)2015/863(10 restricted substances) (RoHS)

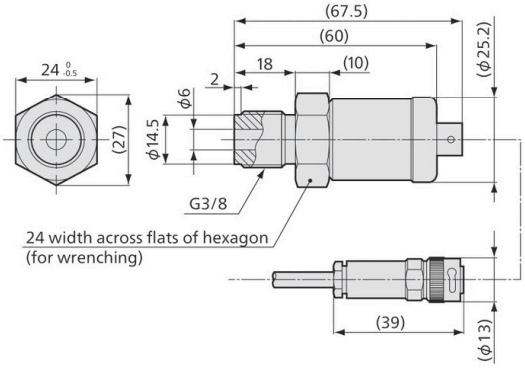
■Standard Accessories Gasket (Mild copper)

■Models

Model	Rated Capacity	Natural Frequencies (Approx.)
PGS-10KA	1 MPa	11 kHz
PGS-20KA	2 MPa	17 kHz
PGS-50KA	5 MPa	27 kHz
PGS-100KA	10 MPa	35 kHz
PGS-200KA	20 MPa	52 kHz
PGS-300KA	30 MPa	64 kHz
PGS-500KA	50 MPa	85 kHz

*Models with an air vent are available. When ordering, suffix "M1" to model numbers.

■Dimensions



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

