

Small-sized Pressure Transducer



Compact & lightweight

- Not affected by atmospheric pressure change
- Strong against vibration and impact

PGS-A series pressure transducers are designed and manufactured to be especially compact and lightweight.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.2\%$ RO
	(20KA: Within $\pm 0.3\%$ RO)
	(10KA: Within $\pm 0.4\%$ RO)
Hysteresis	Within $\pm 0.2\%$ RO
Repeatability	0.1% RO or less
Rated Output	2 mV/V $\pm 0.5\%$

Environmental Characteristics

Safe Temperature	-20 to 70°C
Compensated Temperature	-10 to 60°C
Temperature Effect on Zero	Within $\pm 0.02\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.01\%$ /°C

Electrical Characteristics

Safe Excitation	15 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	600 $\Omega \pm 17.5\%$
Output Resistance	500 $\Omega \pm 1\%$
Accessory Cable	4-conductor (0.3 mm ²) 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.)

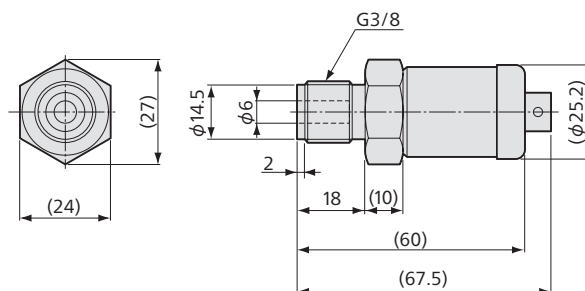
Mechanical Properties

Safe Overloads	150%
Natural Frequencies	See table below.
Material	Case: Anode oxidized coated aluminum
	Liquid-contacting part: SUS 630
Weight	Approx. 120 g (Excluding cable)
Degree of Protection	IP52 (IEC 60529)
Mounting Screw	G3/8, male

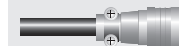
Standard Accessories Gasket (Mild copper)

Models	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

Dimensions



Connector plug
PRC03-12A10-7M



- Physical quantity indication
- Static measurement
- Dynamic measurement

PGS-A
Recommended
products for
combination

