

## Small-sized Pressure Transducer



\*CE compliant models are available. Inquiries are welcome.  
\*Models with an air vent are available.  
When ordering, suffix "M1" to model numbers stated below.

### 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

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

#### Environmental Characteristics

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

#### Electrical Characteristics

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

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

