



## Highly accurate and reliable pressure transducers

- Hermetically-sealed structure with inert gas filled in
- Wide range of rated capacities
- Abundant application achievements

Highly accurate and reliable PG-U series pressure transducers are hermetically sealed with inert gas filled in to enable a long-term stable measurement.

### Specifications

#### Performance

<b>Rated Capacity</b>	See table below.
<b>Nonlinearity</b>	Within $\pm 0.2\%$ RO (2 to 10KU: Within $\pm 0.3\%$ RO)
<b>Hysteresis</b>	Within $\pm 0.2\%$ RO (2 to 10KU: Within $\pm 0.3\%$ RO)
<b>Repeatability</b>	0.1% RO or less
<b>Rated Output</b>	2 mV/V $\pm 0.5\%$ (2 to 10KU: 2 mV/V $\pm 1\%$ )

#### 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 $\pm 0.02\%$ /°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>	350 $\Omega$ $\pm 1\%$
<b>Output Resistance</b>	350 $\Omega$ $\pm 1\%$
<b>Accessory Cable (TT-01)</b>	4-conductor (0.3 mm <sup>2</sup> ) chloroprene shielded cable, 7.6 mm diameter by 3 m long Sensor side: Terminated with a waterproof connector plug 1108-12A10-7M Measuring instrument side: Terminated with a connector plug PRC03-12A10-7M (Shield wire is connected to the case.)

#### Mechanical Properties

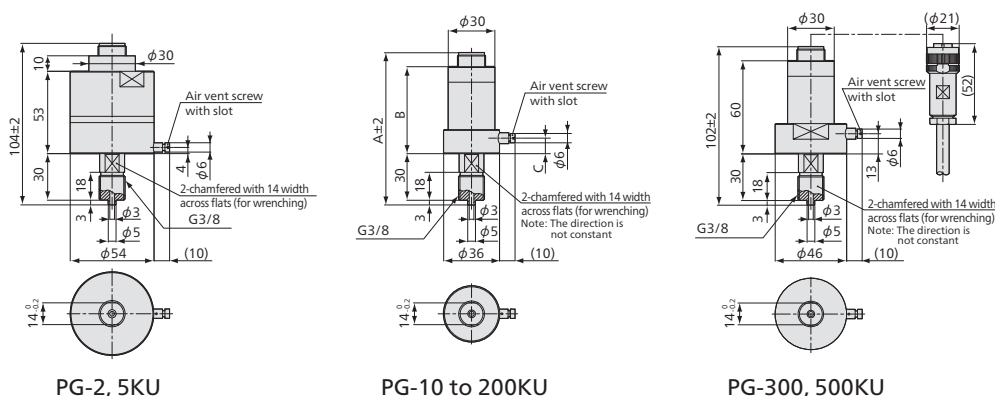
<b>Safe Overloads</b>	150%
<b>Natural Frequencies</b>	See table below.
<b>Material</b>	Case: Anode oxidized coated aluminum Liquid-contacting part: SUS 630 For 10KU or more, the case is die cast zinc alloy.
<b>Weight</b>	Approx. 300 g (2, 5KU is approx. 500 g) (Excluding cable)
<b>Degree of Protection</b>	IP54 (IEC 60529)
<b>Mounting Screw</b>	G3/8, male

#### Standard Accessories

Gasket (Mild copper)

\*Do not use PG-200KU to PG-500KU for endurance/fatigue tests.  
\*The PG-U have airvent screw with slot. Avoid using for a long-term measurement of gas pressure if much importance is attached to the stability of output in a minute range.

### Dimensions



Models	Rated Capacity	Natural Frequencies (Approx.)	A	B	C
PG-2KU	200 kPa	2 kHz	98	56	10
PG-5KU	500 kPa	4 kHz			
PG-10KU	1 MPa	7 kHz			
PG-20KU	2 MPa	13 kHz			
PG-50KU	5 MPa	21 kHz	102	60	13
PG-100KU	10 MPa	29 kHz			
PG-200KU	20 MPa	40 kHz			
PG-300KU	30 MPa	45 kHz			
PG-500KU	50 MPa	50 kHz	-	-	-

Connector plug  
PRC03-12A10-7M

