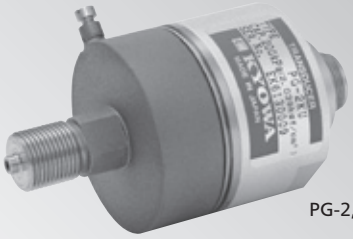
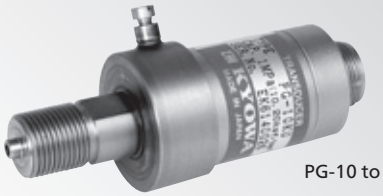
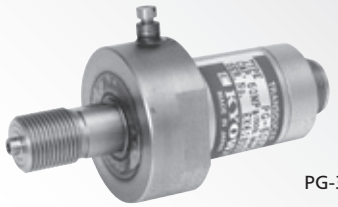
PG-U

Pressure Transducer

●Highly Reliable ●200 kPa to 50 MPa


PG-2, 5KU


PG-10 to 200KU


PG-300, 500KU

*Models with no air vent are available for long-term measurement. Inquiries are welcome.

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. Typical applications include pressure measurement of hydraulic or pneumatic cylinder and pressure test of high-pressure water or gas pipe.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±0.3% RO for 200 kPa to 1 MPa
	Within ±0.2% RO for 2 to 50 MPa
Hysteresis	Within ±0.3% RO for 200 kPa to 1 MPa
	Within ±0.2% RO for 2 to 50 MPa
Repeatability	0.1% RO or less
Rated Output	2 mV/V ±0.5% but ±1% for 200 kPa to 1 MPa

Environmental Characteristics

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

Electrical Characteristics

Safe Excitation	15 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 Ω±1%
Output Resistance	350 Ω±1%
Dedicated connection cable	TT-01
Cable	4-conductor (0.3 mm²) chloroprene shielded cable,
	7.6 mm diameter by 3 m long, terminated with
	connector plug PRC03-12A10-7M
	(Shield wire is connected to the case.)

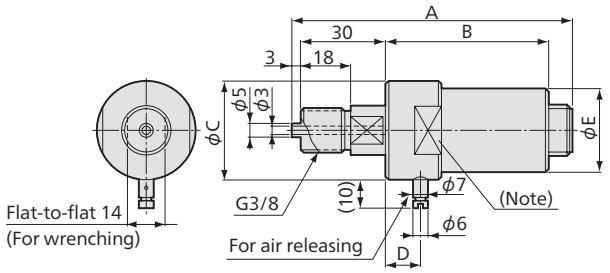
Mechanical Properties

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

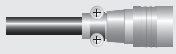
Standard Accessories Gasket (Mild copper)

*Do not use PG-200KU to PG-500KU for endurance/fatigue tests.
*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



Connector plug
PRC03-12A10-7M



Note: 2 flats are provided only for PG-300 and 500KU. Do not apply a wrench to the flats.

Models	Rated Capacity	Natural Frequencies	A	B	ϕC	D	ϕE
PG-2KU	200 kPa	≈ 2 kHz	104	63	54	4	54
PG-5KU	500 kPa	≈ 4 kHz					
PG-10KU	1 MPa	≈ 7 kHz	98	56	36	10	30
PG-20KU	2 MPa	≈ 13 kHz					
PG-50KU	5 MPa	≈ 21 kHz	102	60	36	13	30
PG-100KU	10 MPa	≈ 29 kHz					
PG-200KU	20 MPa	≈ 40 kHz					
PG-300KU	30 MPa	≈ 45 kHz	102	60	46	13	30
PG-500KU	50 MPa	≈ 50 kHz					

●Physical quantity indication ●Dynamic measurement

PG-U Recommended products for combination


Instrumentation Amplifier WGA-900A → 3-95


Strain Amplifier DPM-900 Series → 3-5


Universal Recorder EDX-200A → 3-55


Universal Recorder EDX-100A → 3-63


Memory Recorder/Analyzer EDX-5000A → 3-68


Sensor Interface PCD-400A → 3-77