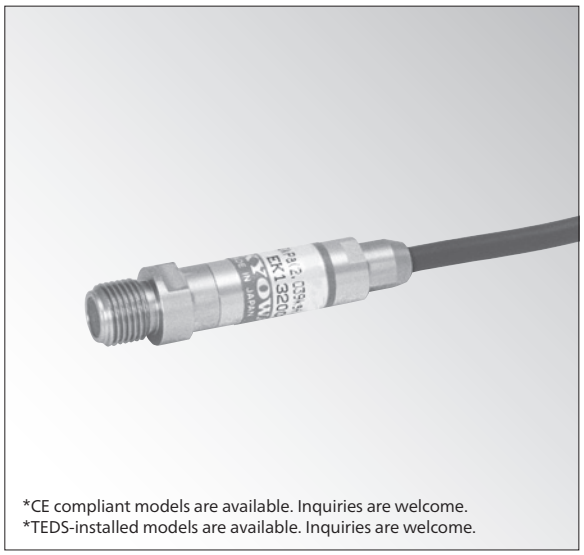
PGMC-A

Small-sized Pressure Transducer

- Sensing surface of 6 mm diameter
- 200 kPa to 1 MPa



*CE compliant models are available. Inquiries are welcome.
*TEDS-installed models are available. Inquiries are welcome.

Compact & lightweight
High frequency response
Flush diaphragm type

PGMC-A series pressure transducers adopt a flush diaphragm with the sensing surface of 6 mm diameter. Since a high frequency response to low pressure is ensured, they are suitable for pressure measurement requiring quick response or for a complicated piping system where the attaching space is limited.

(Note 1) Copper alloy is used for liquid-contacting part.
Avoid measuring corrosive liquid or gas.
(Note 2) Epoxy adhesive has been used to join the diaphragm to PGMC-A.
Avoid measuring organic solvent (toluene, ketone, etc.).

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±1.5% RO
Hysteresis	Within ±1.5% RO
Rated Output	PGMC-A-200KP: 0.6 mV/V or more
	PGMC-A-500KP, 1MP: 1.0 mV/V ±20%

Environmental Characteristics

Safe Temperature	-10 to 60°C
Compensated Temperature	0 to 50°C
Temperature Effect on Zero	Within ±0.2% RO/°C
	(200KP: Within ±0.3% RO/°C)
Temperature Effect on Output	Within ±0.2%/°C
	(200KP: Within ±0.3%/°C)

Electrical Characteristics

Safe Excitation	3 V AC or DC
Recommended Excitation	1 to 2 V AC or DC
Input Resistance	350 Ω ±10%
Output Resistance	350 Ω ±10%
Cable	4-conductor (0.065 mm²) vinyl shielded cable, 4 mm diameter
	by 3 m long, terminated with a connector plug PRC03-12A10-7M
	(Shield wire is connected to the case.)

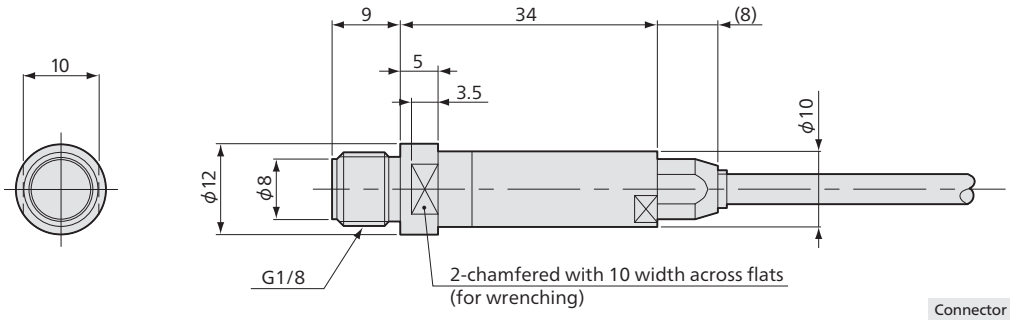
Mechanical Properties

Safe Overloads	150%
Natural Frequencies	See table below.
Material	Liquid-contacting part: C1720
	Screw: SUS 303
Weight	Approx. 20 g (Excluding cable)
Degree of Protection	IP52 (IEC 60529)
Mounting Screw	G1/8, male

Standard Accessories Fluoroplastic sealing tape

Models	Rated Capacity	Natural Frequencies (Approx.)
PGMC-A-200KP	200 kPa	24 kHz
PGMC-A-500KP	500 kPa	34 kHz
PGMC-A-1MP	1 MPa	40 kHz

Dimensions



Connector plug
PRC03-12A10-7M