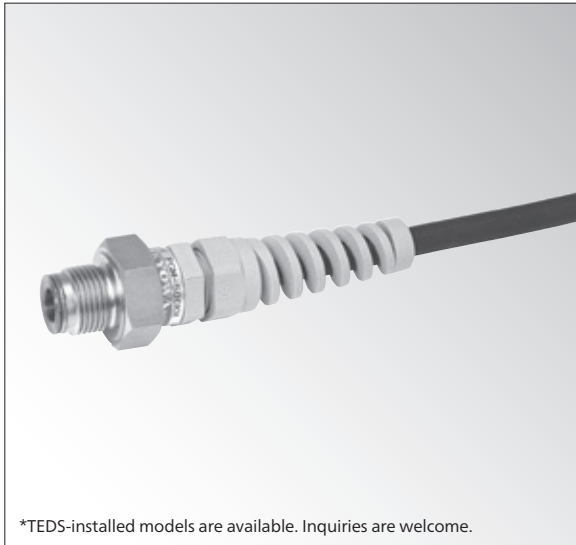


PGM-H

● Compact ● 500 kPa to 50 MPa

Small-Sized Pressure Transducer



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

Compact Semiflush Diaphragm Type and Available in Various Rated Capacities

PGM-H series pressure transducers are suitable for pressure measurement in limited space. Because of a diaphragm at the end, it ensures excellent response and dynamic characteristics.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.5\%$ RO for 500 kPa to 2 MPa Within $\pm 0.3\%$ RO for 3 to 50 MPa
Hysteresis	Within $\pm 0.2\%$ RO
Rated Output	1.35 mV/V or more for 500 kPa 2 mV/V or more for 1 to 50 MPa

Environmental Characteristics

Safe Temperature	-20 to 70°C
Compensated Temperature	-10 to 60°C
Temperature Effect on Zero	Within $\pm 0.05\%$ RO/°C for 500 kPa to 2 MPa Within $\pm 0.03\%$ RO/°C for 3 to 50 MPa
Temperature Effect on Output	Within $\pm 0.02\%/^{\circ}\text{C}$

Electrical Characteristics

Safe Excitation	6 V AC or DC
Recommended Excitation	1 to 3 V AC or DC
Input Resistance	350 $\Omega \pm 2\%$
Output Resistance	350 $\Omega \pm 2\%$
Cable	4-conductor (0.3 mm ²) chloroprene shielded cable, 7.6 mm diameter by 3 m long, terminated with connector plug PRC03-12A10-7M (Shield wire is not connected to the case.)

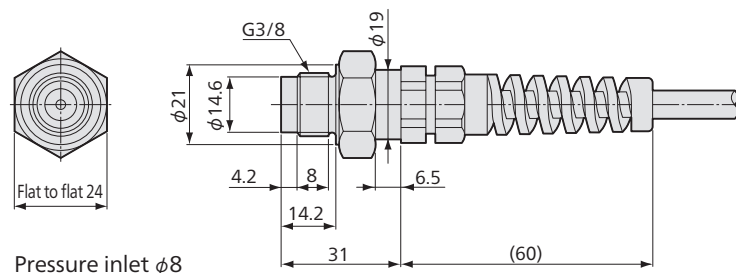
Mechanical Properties

Safe Overloads	150%
Natural Frequencies	See table below.
Material	Case: SUS metallic finish Liquid-contacting part: SUS 630
Weight	Approx. 65 g (Excluding cable)
Mounting Screw	G3/8, male

Standard Accessories Gasket (Mild copper)

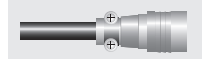
Models	Rated Capacity	Natural Frequencies
PGM-5KH	500 kPa	≈ 19 kHz
PGM-10KH	1 MPa	≈ 26 kHz
PGM-20KH	2 MPa	≈ 37 kHz
PGM-30KH	3 MPa	≈ 46 kHz
PGM-50KH	5 MPa	≈ 57 kHz
PGM-100KH	10 MPa	≈ 78 kHz
PGM-200KH	20 MPa	≈ 110 kHz
PGM-300KH	30 MPa	≈ 134 kHz
PGM-500KH	50 MPa	≈ 174 kHz

Dimensions



Pressure inlet $\phi 8$

Connector plug
PRC03-12A10-7M



● Physical quantity indication ● Static measurement ● Dynamic measurement

PGM-H
Recommended
products for
combination

Instrumentation Amplifier
WGA-900A
→ 3-95

Data Logger
UCAM-60B
→ 3-25

Strain Amplifier
DPM-900 Series
→ 3-5

Universal Recorder
EDX-200A
→ 3-55

Universal Recorder
EDX-100A
→ 3-63

Sensor Interface
PCD-400A
→ 3-77