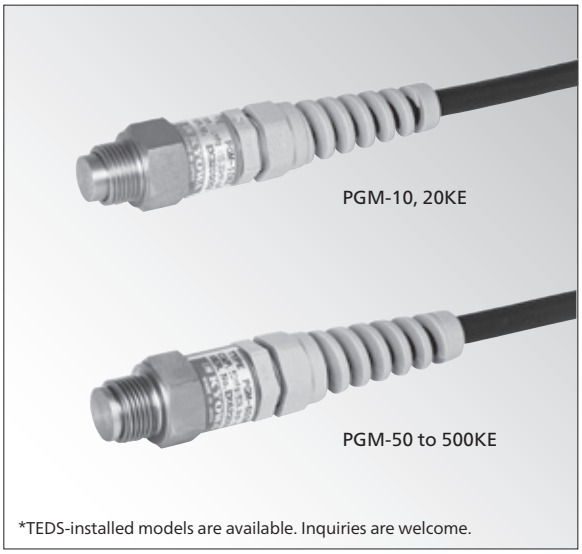
PGM-E

Small-sized Pressure Transducer

●Abundant Models from Low to High Pressures
●1 to 50 MPa



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

Compact Semiflush Diaphragm Type and Available in Various Rated Capacities

PGM-E series pressure transducers are extremely effective for pressure measurement in limited space. A flush diaphragm ensures excellent response and dynamic characteristics. Since the pressure sensing part directly contacts the measuring object, they are applicable to highly viscous medium.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±1% RO
Hysteresis	Within ±1% RO
Rated Output	1 mV/V or more for 1 to 20 MPa
	1.4 mV/V or more for 50 MPa

Environmental Characteristics

Safe Temperature	0 to 80°C
Compensated Temperature	0 to 60°C
Temperature Effect on Zero	Within ±0.1% RO/°C
Temperature Effect on Output	Within ±0.1%/°C

Electrical Characteristics

Safe Excitation	5 V AC or DC
Recommended Excitation	1 to 3 V AC or DC
Input Resistance	120 Ω±2%
Output Resistance	120 Ω±2%
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.)

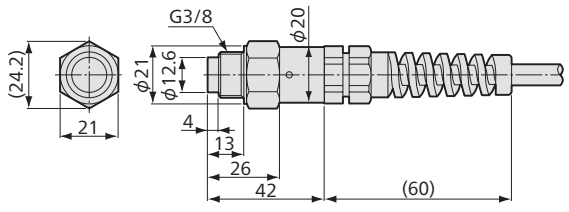
Mechanical Properties

Safe Overloads	150%
Natural Frequencies	See table below.
Material	Case: SUS304
	Liquid-contacting part: SUS 630
Weight	Approx. 65 g (Excluding cable)
Degree of Protection	IP64 (IEC 60529)
Mounting Screw	G3/8, male

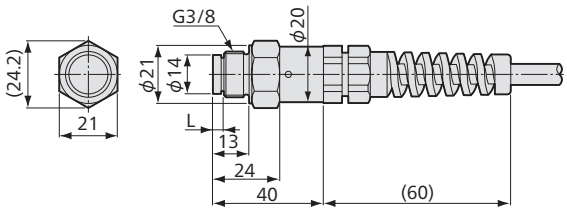
Standard Accessories Gasket (Mild copper)

Models	Rated Capacity	L	Natural Frequencies
PGM-10KE	1 MPa	—	≈ 22 kHz
PGM-20KE	2 MPa	—	≈ 23 kHz
PGM-50KE	5 MPa	5	≈ 46 kHz
PGM-100KE	10 MPa	5	≈ 60 kHz
PGM-200KE	20 MPa	4	≈ 73 kHz
PGM-500KE	50 MPa	3	≈ 80 kHz

Dimensions



PGM-10 to 20KE



PGM-50 to 500KE

Connector plug
PRC03-12A10-7M

●Physical quantity indication ●Static measurement ●Dynamic measurement

PGM-E 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