Strain Gage
Load Cell
Pressure Sensor
Acceleration Sensor
Torque Sensor
Displacement Sensor
Component Force Sensor
Automotive Sensor
Civil Engineering Sensor

PGM-E

Small-sized Pressure Transducer

CE



Flush diaphragm types

- **Rated capacity: 1 to 50 MPa**
- **Degree of protection: IP64**

Flush diaphragm type transducers with excellent response and superior dynamic characteristics.
The pressure sensing part makes direct contact with the measuring object, allowing for use with highly viscous pressure media.

Specifications

Performance	
Rated Capacity	See table below.
Nonlinearity	Within ±1% RO
Hysteresis	Within ±1% RO
Rated Output	1 mV/V or more (500KE: 1.4 mV/V or more)
Environmental Characteristics	
Safe Temperature	0 to 80℃
Compensated Temperature	0 to 60℃
Temperature Effect on Zero	Within ±0.1% RO/℃
Temperature Effect on Output	Within ±0.1%/℃
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 a connector plug PRC03-12A10-7M
	(Shield wire is connected to the case.)
Mechanical Properties	
Safe Overloads	150%
Natural Frequencies	See table below.
Material	Case: Stainless steel
	Liquid-contacting part: SUS630
	Screw: SUS304 (10, 20KE only)
Weight	Approx. 65 g (Excluding cable)
Degree of Protection	IP64 (JIS C 0920/IEC 60529)
Mounting Screw	G3/8 male
Compliance	Directive 2011/65/EU,(EU)2015/863(10 restricted substances) (RoHS)

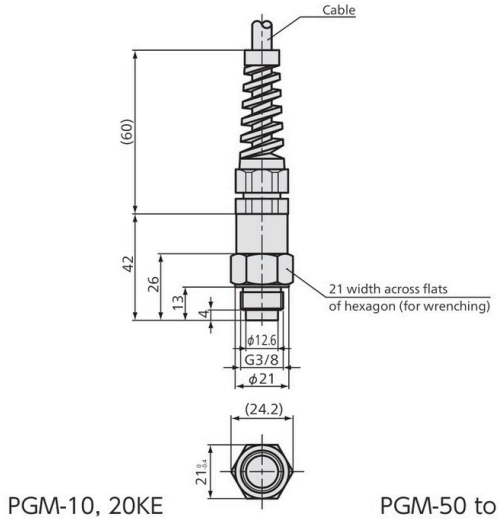
■Standard Accessories Gasket (Mild copper)

■Models

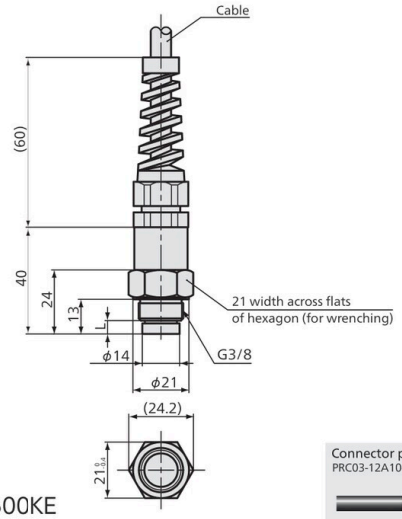
Model	Rated Capacity	L	Natural Frequencies (Approx.)
PGM-10KE	1 MPa	—	22 kHz
PGM-20KE	2 MPa	—	23 kHz
PGM-50KE	5 MPa	5	46 kHz
PGM-100KE	10 MPa	5	60 kHz
PGM-200KE	20 MPa	4	73 kHz
PGM-500KE	50 MPa	3	80 kHz

*TEDS-installed models are available. Please contact us.

■Dimensions



PGM-10, 20KE



PGM-50 to 500KE

