

# PGM-D

● High Frequency Response ● 5 to 50 MPa

## Small-sized Pressure Transducer



### Specifications

#### Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.5\%$ RO
Hysteresis	Within $\pm 0.5\%$ RO
Rated Output	1.5 mV/V $\pm 20\%$

#### Environmental Characteristics

Safe Temperature	-10 to 70°C
Compensated Temperature	0 to 60°C
Temperature Effect on Zero	Within $\pm 0.1\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.1\%$ /°C

#### Electrical Characteristics

Safe Excitation	3 V AC or DC
Recommended Excitation	1 to 2 V AC or DC
Input Resistance	120 $\Omega \pm 2\%$
Output Resistance	120 $\Omega \pm 2\%$
Cable	4-conductor (0.065 mm <sup>2</sup> ) vinyl shielded cable, 4 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: SUS metallic finish Liquid-contacting part: SUS 630
Weight	Approx. 40 g (Excluding cable)
Mounting Screw	G1/8, male

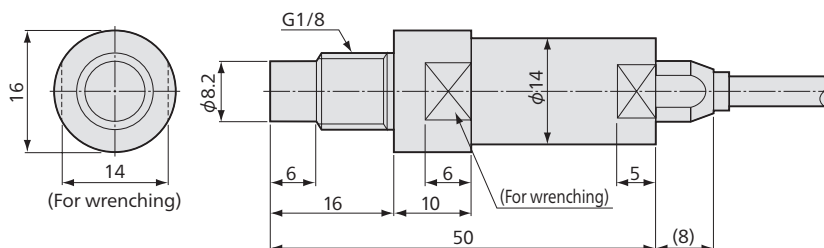
Standard Accessories Gasket (Mild copper)

## High Frequency Response and Highly Accurate Flush Diaphragm Type with Small Pressure Sensing Surface

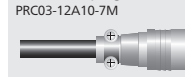
- Small pressure sensing surface
- Flush diaphragm type
- High frequency response

Models	Rated Capacity	Natural Frequencies
PGM-50KD	5 MPa	$\approx 83$ kHz
PGM-100KD	10 MPa	$\approx 113$ kHz
PGM-200KD	20 MPa	$\approx 150$ kHz
PGM-500KD	50 MPa	$\approx 250$ kHz

### Dimensions



Connector plug PRC03-12A10-7M



- Physical quantity indication
- Static measurement
- Dynamic measurement

PGM-D 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
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