PGR-A

● **Ultimate overloads: 117.7 Mpa**
● **1 to 20 MPa**

High-pressure-resistant Pressure Transducer

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

High temperatures (Up to 100°C) High-pressure-resistant and highly accurate pressure transducer

● High temperatures (Up to 100°C)
● High pressure resistant
● Highly accurate

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±0.1% RO
Hysteresis	Within ±0.1% RO
Rated Output	1.5 mV/V (3000×10^{-6} strain) ±5%

Environmental Characteristics

Safe Temperature	-30 to 110°C
Compensated Temperature	-10 to 100°C
Temperature Effect on Zero	Within ±0.01% RO/°C
Temperature Effect on Output	Within ±0.01%/°C

Electrical Characteristics

Safe Excitation	12 V AC or DC
Recommended Excitation	1 to 8 V AC or DC
Input Resistance	350 Ω±1.4%
Output Resistance	350 Ω±1.4%
Cable	4-conductor (0.75 mm²) fluonlex shielded cable, 8 mm diameter by 5 m long, bared at the tip (Shield wire is not connected to the case.)

Mechanical Properties

Safe Overloads (*1)	300%
Ultimate Overloads (*2)	117.7 MPa (10 to 50KA)
	196.1 MPa (100, 200KA)
Natural Frequencies	See table below.
Material	Case: SUS (Metallic finish)
	Liquid-contacting part: SUS 630
Weight	Approx. 400 g (Excluding cable)
Mounting Screw	G3/8, male

Standard Accessories Gasket (Mild copper)

Models	Rated Capacity	Natural Frequencies
PGR-10KA	1 MPa	≈ 12 kHz
PGR-20KA	2 MPa	≈ 17 kHz
PGR-50KA	5 MPa	≈ 29 kHz
PGR-100KA	10 MPa	≈ 42 kHz
PGR-200KA	20 MPa	≈ 60 kHz

*1. Maximum overload which is applied without causing any permanent change in specified characteristics.
*2. Maximum overload which is applied without causing any structural damage.

■ **Dimensions**

φ6.2 Pressure inlet
φ14.5
G3/8
36
19 10
3
(32)
(138)
2– Flat-to-flat 19 for wrenching
Bared at the tip
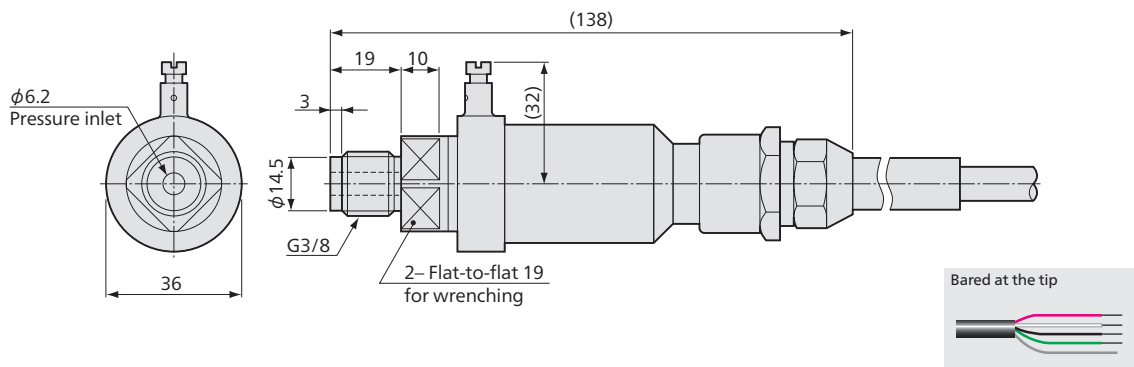
● Physical quantity indication   ● Static measurement ● Dynamic measurement

PGR-A Recommended products for combination

Instrumentation Amplifier WGA-900A → 3-95

Instrumentation Amplifier WGA-680A → 3-97

Data Logger UCAM-60 series → 3-27

Universal Recorder EDX-200A → 3-57

Universal Recorder EDX-100A → 3-65