

BPG-A-S

●Water Pressure Measurement ●200, 500 kPa

High-sensitivity Pore Pressure Transducer

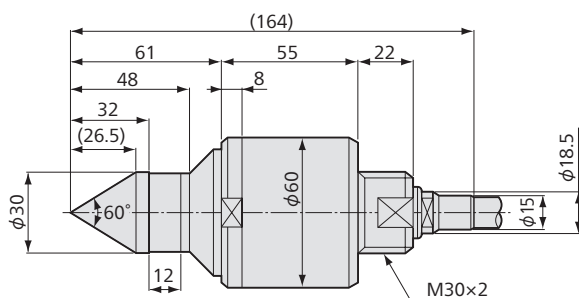


Suitable for high sensitivity measurement of underground water level.

- High sensitivity 2 mV/V and high accuracy ($\pm 0.5\%$ RO)
- Excellent temperature characteristics ($\pm 0.02\%$ RO/ $^{\circ}\text{C}$)
- Cone filter attached (Possible to replace to a flat filter)

Featuring rated output of 2 mV/V, the BPG-A-S series pore pressure transducers provide a sensitivity twice as high as ordinary units. Thus, they are suitable for precise measurement of underground water level by embedding in a well, etc.

■Dimensions



Specifications

Performance

Rated Capacity	BPG-A-200KPS: 200 kPa
	BPG-A-500KPS: 500 kPa
Nonlinearity	Within $\pm 0.5\%$ RO
Hysteresis	Within $\pm 0.5\%$ RO
Rated Output	2 mV/V $\pm 2\%$

Environmental Characteristics

Safe Temperature	-20 to 70 $^{\circ}\text{C}$ (Non-freezing)
Compensated Temperature	-10 to 60 $^{\circ}\text{C}$ (Non-freezing)
Temperature Effect on Zero	Within $\pm 0.02\%$ RO/ $^{\circ}\text{C}$
Temperature Effect on Output	Within $\pm 0.02\%$ / $^{\circ}\text{C}$

Electrical Characteristics

Safe Excitation	10 V AC or DC
Input Resistance	350 Ω $\pm 1\%$
Output Resistance	350 Ω $\pm 1\%$
Cable	4-conductor (0.5 mm ²) chloroprene shielded cable, 10 mm diameter by 1 m long, bared at the tip (Shield is not connected to the mainframe.)

Mechanical Properties

Safe Overloads	120%
Material	Stainless steel metallic finish (Filter is sintered brass metallic finish)
Water resistance	240k Pa (200KPS)
	600 kPa (500KPS)
Degree of Protection	IP68 (IEC 60529), (Safe overload)
Weight	Approx. 800 g

Note: 10 μm flat filter stainless steel only

■Application Example

