

BEN-A

Soil Pressure Transducer

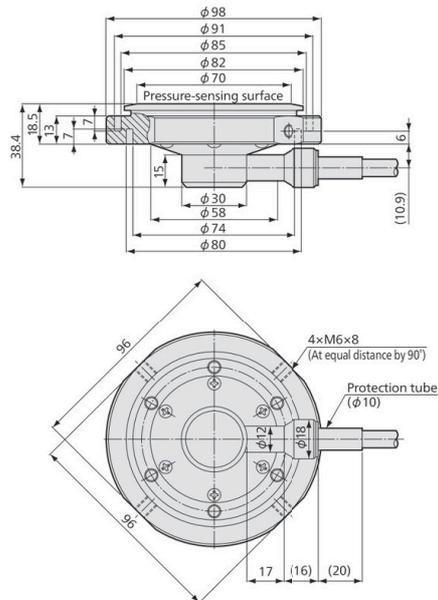


**Strong against vibration,
for driving**

- Rated capacity: 500 kPa, 1 MPa
- Pressure-sensing surface diameter: 70 mm

These soil pressure transducers are strong against vibration, and are suitable for driving into sheet piles, steel pipe piles, etc.

■ Dimensions



Bared at the tip (standard)



Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 1\%$ RO
Hysteresis	Within $\pm 1\%$ RO
Rated Output	1 mV/V or more

Environmental Characteristics

Safe Temperature	-20 to 80°C
Compensated Temperature	-10 to 50°C
Temperature Effect on Zero	Within $\pm 0.4\%$ RO/°C (500KP) Within $\pm 0.2\%$ RO/°C (1MP)
Temperature Effect on Output	Within $\pm 0.2\%$ /°C (500KP) Within $\pm 0.1\%$ /°C (1MP)

Electrical Characteristics

Safe Excitation	10 V AC or DC
Recommended Excitation	2 to 8 V AC or DC
Input Resistance	350 Ω $\pm 1\%$
Output Resistance	350 Ω $\pm 1\%$
Cable	4-conductor (0.5 mm ²) chloroprene cable, 8 mm diameter by 1 m long, bared at the tip

Mechanical Properties

Safe Overloads	150%
Weight	Approx. 1 kg

■ Models

Model	Rated Capacity
BEN-A-500KP	500 kPa
BEN-A-1MP	1 MPa

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Sensor



Strain Gage

Load Cell

Pressure
Sensor

Acceleration
Sensor

Torque
Sensor

Displacement
Sensor

Component
Force
Sensor

Automotive
Sensor

Civil
Engineering
Sensor

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