

BPT-A-80KPS

- Water Pressure Measurement
- -80 kPa

Soil Moisture Transducer



This transducer is suitable for measurement of soil moisture absorbing force and proper for management of plant cultivation

The BPT-A-80KPS is a soil moisture transducer designed to measure water pressure in a vessel equipped with a porous cup (Porous ceramic tube) and filled with degassed water. If the soil around the embedded porous cup is dry, the soil absorbs water from the vessel via the porous cup. By measuring this negative pressure (Water absorbing pressure), the amount of moisture in the soil is obtained. Thus, this transducer is applicable not only to check for possible landslide or grasp the stability of a banking but also to know changing soil moisture and proper irrigation time in plant cultivation.

Specifications

Performance

Rated Capacity	-80 kPa
	200 kPa for positive pressure
Nonlinearity	Within $\pm 0.5\%$ RO
Hysteresis	Within $\pm 0.5\%$ RO
Rated Output	Approx. -0.8 mV/V

Environmental Characteristics

Safe Temperature	0 to 80°C (Non-freezing)
Compensated Temperature	0 to 70°C (Non-freezing)
Temperature Effect on Zero	Within $\pm 0.05\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.05\%$ /°C

Electrical Characteristics

Safe Excitation	10 V AC or DC
Input Resistance	350 Ω $\pm 2\%$
Output Resistance	350 Ω $\pm 2\%$
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 case.)

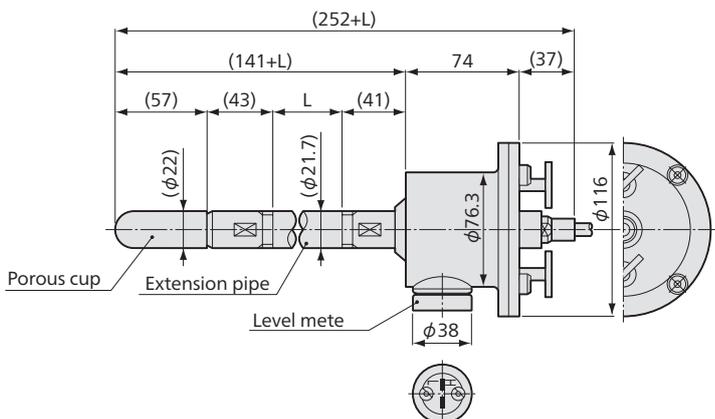
Mechanical Properties

Safe Overloads	100%
Case	Stainless steel metallic finish (Excluding porous cup and level meter)
Weight	Approx. 3.5 kg

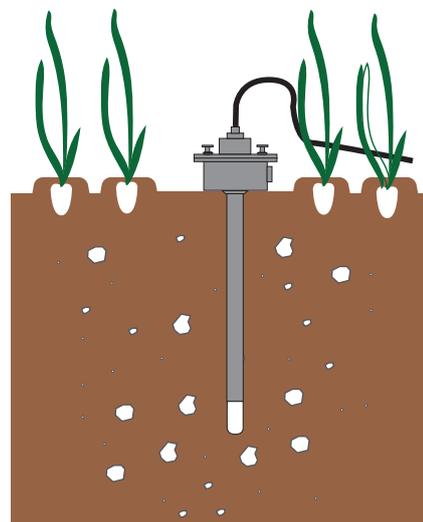
To Ensure Safe Usage

The BPT-A-80KPS is delivered with a vessel filled with degassed water. Never store it unused for a long period of time. Embed it upon purchasing.

■ Dimensions



■ Application Example



Embedded the extension pipe in the soil layer.

