

VP Pipe Strain Transducer



Summary

Measure the depth and amount of landslide.

This transducer is designed to estimate the depth and amount of landslide. It has a strain gage bonded on a PVC pipe to form a flexible detector. Multiple units that are connected via joint pipe are placed vertically into a boring at the landslide site and fixed by filling the gap with sand.

Landslide scale and depth are estimated based on bending strain measured at each depth by the detector, which is sequentially selected using a switch box.

(Tokyo Electric make)

Specifications

Gage resistance Uniaxial 120Ω (half bridge system)

BMD-200B

Landslide Measurement



Specifications

Number of Output Channels	1 (Use switch box NS-H for multi-channel measurement.)
Measurement Range	0 to $\pm 19999 \mu\text{m/m}$
Accuracy	$\pm(0.5\%$ of reading + 2 digits) ※After compensation of tension/compression measurement
Display	7-segment LCD, character height 11.4 mm Automatic polarity switchover, minus sign only on display
Sampling	Sampling Frequency : Approx. 2 times/s
Operating Temperature Range	0 to 45°C
Power Supply	AA size NiCd dry cell x 4 Continuous operation time: Approx. 20 hours (with 120 Ω gage) Charge time: Approx. 15 hours Low battery: Indicated by B signal
Dimensions	90 x 170 x 35 mm (excluding protrusions)
Weight	Approx. 420 g