

Vibrating Wire Soil Extensometer

Description

The RST Vibrating Wire Soil Extensometer is developed to monitor lateral and longitudinal deformation of soil and different types of embankments and embankment dams.

The instrument consists of a vibrating wire displacement sensor encased in a sealed body. The body contains a telescopic outer PVC pipe fitted with two flanges and an inner stainless steel rod. One end of the rod is attached to the flange, while its other end is connected to a displacement sensor attached to the other flange. As deformation occurs, the telescopic pipe moves with the soil causing the rod to operate the displacement sensor.

VIBRATING WIRE SOIL EXTENSOMETER SPECIFICATIONS

ITEM	SPECIFICATION
Gauge Lengths	1 m and 2 m - with 0.5, 1, 2 and 3 m long extension kits
Sensor Range	50, 100, 150, 200 mm
Accuracy	+/- 0.25 % FSR
Resolution	0.02% FSR
Linearity	0.25% FSR
Thermal Zero Shift	<0.05% FSR/°C
Operating Temperature	-20°C to 80 °C
Instrument Body / Flange Diameter	28 mm / 280 mm
Signal Cable - EL380004	Two twisted pair cable with polyurethane jacket

SPECIFICATIONS