# 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 SPECIFICATIONS | Two twisted pair cable with polyurethane jacket |