



MAGNETIC & ROD TYPE SETTLEMENT DEVICE



Systel Settlement device are designed to generate settlement profiles within the changes in the relative position of structural elements associated with many types of structure.

- Concrete Dams
- Buildings over tunnelling works
- Deep Excavations
- Retaining Walls
- Bridges
- Tunnels

Suitable for portable readout equipment or automatic data acquisition.

Magnetic Extensometer is designed to measure settlement or heave of soft ground under the influence of loading or unloading due to the construction of embankments, fills, buildings, foundations, and structures. A probe is lowered inside a telescoping guide tube to detect and measure the position of magnetic anchors located around the guide tube at various depths along the borehole or within the fill. Plate anchors are used in fill and “spider” anchors in boreholes.

The Magnet Extensometer consists of a series of magnets that are installed with an access pipe. The magnets are anchored at specified depths. Measurements are taken by lowering a probe through the access pipe to detect the depth of the magnets.

Advantages: For monitor large settlements; works with inclinometer casing and can supplement inclinometer data, relatively easy to operate, indicates incremental settlements.

Limitations: Cannot be automated, practical limit of 15 or 20 magnets, vertical installation only.



Systel Instrumentation Services Pvt. Ltd



ISO 9001-2008 Certified

GLUE-SNAP ABS INCLINOMETER CASING

SPECIFICATION

Maximum O.D. 70 mm
Wall Thickness 5.5 mm
Length 1.5 or 3 m
Telescoping Coupling 660 mm (extended length)
508 mm (compressed length)

INCLINOMETER CASING

SPECIFICATION

Maximum O.D. 70 mm (casing), 76.5 mm (coupling)
Wall Thickness 3 mm (casing), 2 mm (coupling)
Length 3 m (casing), 300 mm (coupling)
Telescoping Coupling available up to 3 m (please specify)