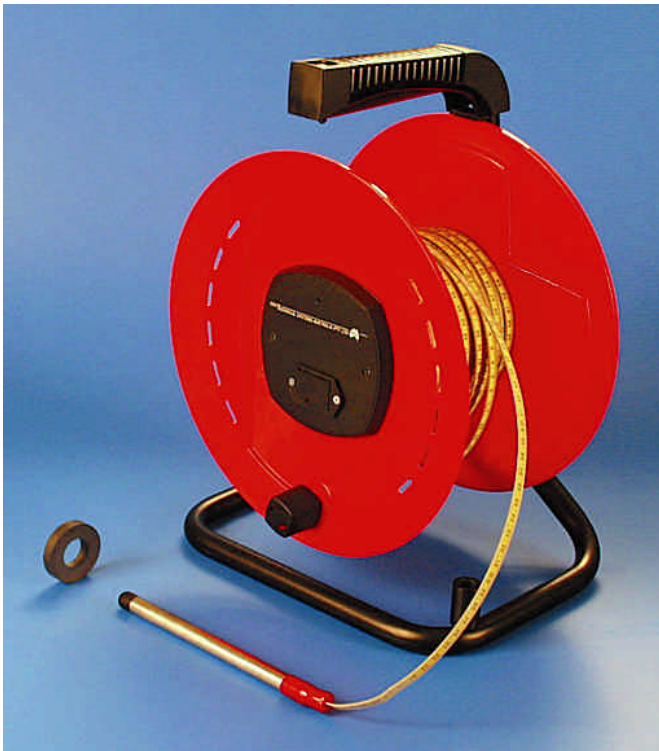


MODEL 4750

The Geotechnical Systems Australia Pty Ltd **Magnetic Extensometer** Inclinometer System is used to monitor settlement and heave in excavations, dams, foundations, slurry walls, retaining structures and embankments.



FEATURES

- Reliable, accurate, simple to install and read
- No limit to the number of targets that can be installed in the borehole
- Can be extended simply
- One readout unit can be used in multiple installations
- Very economical



Magnetic Extensometer Inclinometer System

SPECIFICATION	EXTENSOMETER INCLINOMETER	Model 4750
Target		71mm ID ring
Magnet		12 rare earth pole magnets placed radially
Inclinometer access tube		70mm OD ABS flush coupled casing
Protective covering		100mm OD corrugated PVC piping

OPERATING PRINCIPLES

The system consists of a probe, signal cable and a cable reel with an electrical circuit. A number of circular magnetic targets are placed around the flush-coupled inclinometer casing. The targets are connected by sections of corrugated plastic pipe, which slide along the inclinometer casing. This allows the targets to move along the inclinometer casing when settlement takes place.

The probe is mounted on a special tape system consisting of a steel survey tape encapsulated alongside two stainless steel conductors. This gives a simple rugged measurement system that is available in different lengths.

When the probe enters the magnetic field generated by the target, an audible signal is emitted at the reel. Measurements are then taken on the tape, which are usually referenced at a surveyed collar pipe.

The targets are designed to move independently of the inclinometer casing and within the protection of the outer corrugated piping.

Settlement and heave are measured by comparing the current depth of each target to the initial depth. Measurement of inclination can also be carried out with conventional equipment.

ANCILLARY EQUIPMENT

- Readout units - 30m, 50m, 100m and 200m.
- Automatic, continuous monitoring system model 4775 which will monitor up to eight targets continuously.
- Inclinometer system - 30m, 50m, 100m and 200m.
- Spider anchors for magnetic targets.