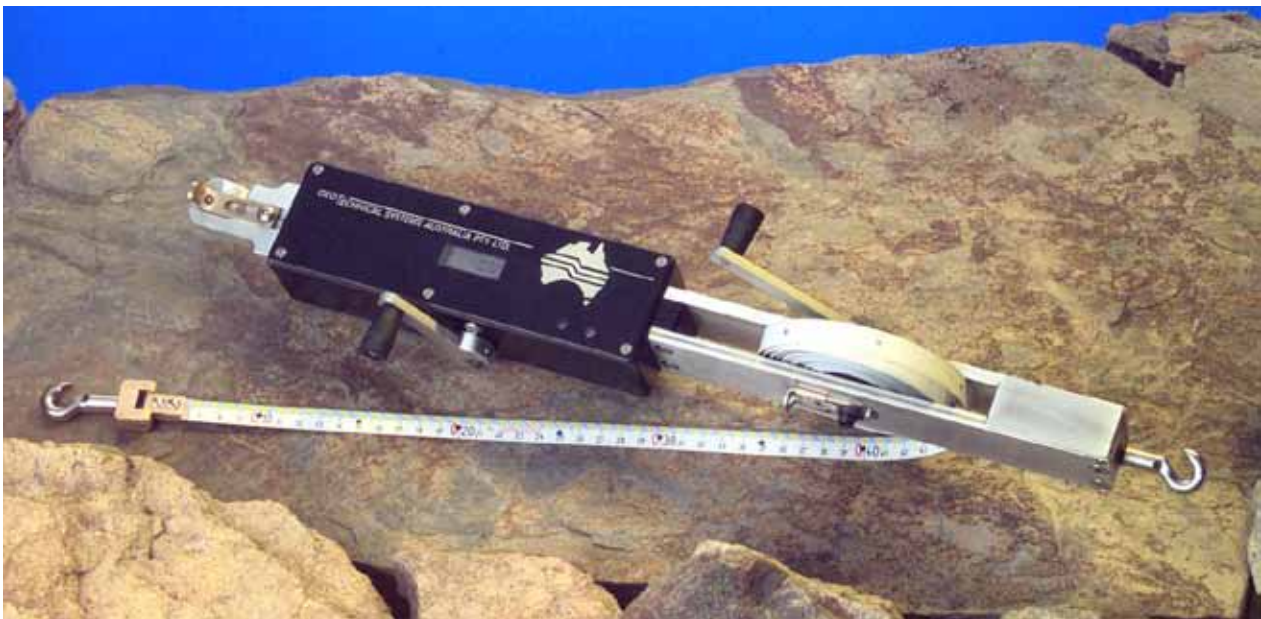


### MODEL 4510

The Geotechnical Systems Australia Pty Ltd [Digital Tape Extensometer](#) is a portable device designed to measure the relative distance between reference anchors mounted on a building, tunnel or structure. Both grouted and expanding anchors are available. Tapes can be supplied in 20 and 30 metre lengths.



### OPERATING PRINCIPLES

The digital tape extensometer is used to measure any change in the distance between two fixed points, which are attached to a building or tunnel to be monitored. By measuring the change in distance between any number of fixed points arranged in a pattern, it is possible to show the type and amount of movement experienced by the structure, building or tunnel being monitored. By using the same fixed points to locate a leveling staff or EDM target, it is possible to incorporate the tape extensometer data into a more comprehensive monitoring survey.

The tape extensometer system consists of a steel tape punched with holes at regular intervals, which is stretched between two eyebolt anchors and tensioned by the instrument. The instrument has two purposes, to apply consistent tension to the tape and to provide an accurate measurement of the distance from the punched hole in the tape to the eyebolt being measured.

The digital tape extensometer applies tension to the tape by retracting the sliding bars on which the locating pin block is mounted. A tension-sensing device indicates when the bars have been retracted sufficiently to apply the correct tension. A digital measuring device, directly connected to the sliding bars, provides an accurate reading of the distance from the punched hole in use to the eyebolt.

# Digital Tape Extensometer

SPECIFICATION	DIGITAL TAPE EXTENSOMETER	Model 4510
Overall Length		550 mm
Body Dimensions		40 mm x 60 mm
Weight		2 kg
Tension on Tape		150 Newtons
Battery Type		PP3, 9 Volts
Tape (Standard)		20 m
Tape (Optional)		30 m
Display Type		Digital
Accuracy		< 0.1 mm
Tensioning System		Automatic
Accessories		Sturdy Carry Case

## ORDERING INFORMATION

When ordering,  
please also specify

- Model Number and Quantity
- Tape Length
- Spare Tape Requirements
- Anchor Type Required
- Anchor Quantity

