

Tape Extensometer

Description

NOTE: This is a legacy and discontinued product not available for order.

The RST Tape Extensometer is a portable device, designed to measure the relative distance between reference anchors fixed to the excavation or structure.

The instrument consists of a precision punched steel tape incorporating a repeatable tensioning system and dial gauge readout. To obtain a reading, the swivel hook, on the fixed end of the extensometer, is connected to the stainless steel eye on the anchor. The tape is unwound, allowing the tape swivel hook to be attached to the opposing anchor eye. Coarse tension adjustment is accomplished by positioning the pin of the extensometer in one of the precision punched tape holes. Fine tension adjustment is by rotating a knurled sleeve until two index marks align. A precision dial gauge measures this fine adjustment, with the tape held under a consistent repeatable spring force. The instrument is then read by noting the tape position, and subtracting the dial gauge reading.

For maximum accuracy, we recommend that one instrument be dedicated to each project, a calibration frame be regularly used to check stability and determine a temperature correlation, establish new base readings if the tape is changed, and the instrument temperature be allowed to stabilize prior to use.

TAPE EXTENSOMETER

ITEM	SPECIFICATION
Range	10, 15, 20, 30 m (30, 50, 100 ft.)
Dial Indicator Resolution	0.01 mm
Repeatability	± 0.25 mm (±0.01 in.)
Weight with 20 m Tape	2.2 kg (5.0 lb.)

SPECIFICATIONS