



PRODUCT CATEGORY:
EXTENSOMETERS

Tape Extensometer

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.

> APPLICATIONS

- Mine roof sag.
- Measurement of tunnel convergence.
- Deformation of excavations.
- Surface measurements for slope stability.
- Monitoring and control of NATM (New Austrian Tunnelling Method) construction.

> FEATURES

- Rugged, simple design.
- Rapid one man operation.
- High accuracy and reliability.
- Applicable in any orientation.
- Supplied with robust, water/dust proof carrying case.

> BENEFITS

- ✓ Increase Safety
- ✓ High Accuracy
- ✓ Increase Productivity
- ✓ High Reliability

SPECIFICATIONS

ITEM	DESCRIPTION
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.)

OPTIONAL EQUIPMENT

Replacement tapes.
Groutable anchors.
Zero stability reference frame.

ORDERING INFO

Metric or Imperial model.
Tape length.
Anchors.
Optional equipment.

ORDERING

MODEL	PART #	MODEL	PART #
10 m Tape Extensometer with case	EXTE0010	Optional spare 10 m tape	EXTES0010
15 m Tape Extensometer with case	EXTE0015	Optional spare 15 m tape	EXTES0015
20 m Tape Extensometer with case	EXTE0020	Optional spare 20 m tape	EXTES0020
30 m Tape Extensometer with case	EXTE0030	Optional spare 30 m tape	EXTES0030
30 ft. Tape Extensometer with case	EXTE0030F	Optional spare 30 ft. tape	EXTES0030F
50 ft. Tape Extensometer with case	EXTE0050F	Optional spare 50 ft. tape	EXTES0050F
100 ft. Tape Extensometer with case	EXTE00100F	Optional spare 100 ft. tape	EXTES00100F
Anchor point, groutable rebar type	EXTE1000	Optional calibration frame	EXTE2000