

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, new base readings are established if the tape is changed, and the instrument temperature be allowed to stabilize prior to use.



FEATURES

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

FUNCTIONS

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

SPECIFICATIONS

Range	15, 20, 30 m (50, 75, 100 ft.)
Dial Indicator Resolution	0.025 mm (0.001 in.)
Repeatability	± 0.25 mm (±0.01 in.)
Weight with 20 m Tape	2.2 kg (5.0 lb.)

MODEL NUMBERS

MODEL	PART #	MODEL	PART #
10 m Tape Extensometer with case	EXTE0010	Spare 10 m tape*	EXTES0010
		Spare 15 m tape*	EXTES0015
15 m Tape Extensometer with case	EXTE0015	Spare 20 m tape*	EXTES0020
		Spare 30 m tape*	EXTES0030
20 m Tape Extensometer with case	EXTE0020	Spare 30 ft. tape*	EXTES0030F
		Spare 50 ft. tape*	EXTES0050F
30 m Tape Extensometer with case	EXTE0030	Spare 100 ft. tape*	EXTES00100F
		Anchor Point, groutable rebar type*	EXTE1000
30 ft. Tape Extensometer with case	EXTE0030F	Anchor Point, expansion shell type*	EXTE1010
		Calibration frame*	EXTE2000
50 ft. Tape Extensometer with case	EXTE0050F	All steel version (for use in coal mines)*	EXTE2010
		* Optional	

ANCILLARY EQUIPMENT (Specify when ordering)

Replacement tapes	Zero stability reference frame
Groutable anchors	Expansion shell anchors
Eyebolt for mechanical connection to steel structures	

ORDERING INFORMATION (Specify when ordering)

Metric or Imperial model	Tape length
Anchor type	Options

Specifications may change without notice. EXB0001G

TAPE EXTENSOMETER



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The RST Instruments Management System is certified to ISO 9001:2000

