rst INSTRUMENTS

Monitor
with
Confidence

TEL 604 540 1100
info@rstinstruments.com
www.rstinstruments.com

RST Instruments Ltd.
11545 Kingston St.,
Maple Ridge, BC V2X 0Z5 Canada

Certified System
ISO 9001

PRODUCT CATEGORY:
EXTENSOMETERS

MTCM Closure Station

The MTCM Closure Station with displacement sensor can measure, display, log, and graph mine tunnel convergence. The modular extension system permits a broad range of tunnel sizes from 1.8 - 4 metres to be monitored, using standard unistrut extensions and hand tools.

Designed for use underground, the display for the MTCM Closure Station is backed by a high efficiency LCD which provides immediate illumination upon the touch of any button. The unit's simple power supply of a lithium 'D' battery offers quick replacement in the field if required.

Autonomous logging at programmable intervals, flexible memory options, unprecedented accuracy and ease of use make the MTCM Closure Station invaluable for projects requiring monitoring of mine tunnel convergence. A field programmable tracking window alarm, with flashing LED warning and acknowledge reset, serves as a visual safety element from a distance.

Alternatively, the MTCM with displacement sensor provides the same measuring capabilities as the MTCM Closure Station, but it does not offer on-board display and graphing. Readings are taken separately by MTCM Graphing Logger or the unit can also be connected to a remote data logger. It is ideal for placement in locations where constant access is not expected or recommended.

The large graphics display has a convenient backlight and can be activated by pushing any button.

A screen shot of the on-board MTCM Closure Station display shows a typical reading with graph.

The MTCM Graphing Logger takes readings and graphs data from the MTCM with Displacement Sensor.

> APPLICATIONS

Equipped with a displacement sensor, the MTCM Closure Station reads, displays, logs & graphs mine tunnel convergence. The modular extension system permits a broad range of tunnel sizes.

The MTCM with Displacement Sensor measures mine tunnel convergence except readings must be taken externally by the MTCM Graphing Logger. It is ideal for placement in areas where constant access is not expected, or recommended.

> FEATURES

Durable, compact design or easy deployment.	Readings in engineering units.
Large graphics display with a convenient backlight activated by pushing any button.	Flashing LED warning alarm viewable from a distance.

Autonomous logging at programmable intervals.

Data transfer to a host computer via USB in a compatible file format for Microsoft Excel® and other spreadsheets. User friendly host software for Microsoft Windows® included.
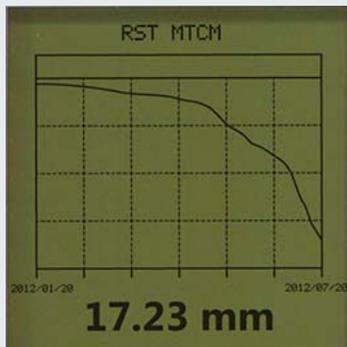
ORDERING INFO

ITEM	PART #
MTCM Closure Station	ELMTCM-P150 - 150 mm range
MTCM with Displacement Sensor (readings can be taken with MTCM Graphing Logger, pictured above, or a data logger)	ELMTCM-S-50 - 50 mm range
	ELMTCM-S-100 - 100 mm range
	ELMTCM-S-150 - 150 mm range
MTCM Graphing Logger	ELMTCM
DT2306 Potentiometer Data Logger	DT2306
flexDAQ Data Logger	Please contact RST for more information

SPECIFICATIONS

DESCRIPTION	SPECIFICATION
Range (Closure Station)	150 mm
Range (with Displacement Sensor only)	50, 100 and 150 mm
Resolution	0.01 mm
Display (Closure Station)	Graphic 128 x 128 pixels large character display
Display Backlight (Closure Station)	High efficiency LCD with auto off
Memory Capacity	385,000 readings
Location Identification String	Up to 20 characters
Download Speed	15 seconds (full memory)
Battery	Lithium 'D' / up to 10 years (dependent upon frequency of readings)
Battery Indicator	On-screen, low battery indicator
Operating Temperature	-20°C to 60°C
Tunnel Size	1.8 - 4 m (70 - 157 in) (other lengths available)