



T-REX INCREMENTAL EXTENSOMETER

Removable Extensometer T-REX has been designed by Sisgeo for incremental measurements along the axis of inclinometer casing equipped with targets.

T-REX probe is equipped with two accurate linear transducers. Operating cable, placement rods, portable readout and data management software are provided.

The readout is a standard Sisgeo datalogger with a special battery pack to supply power to the extensometer probe. Through the USB port the measurements can easily transferred to a PC for data management.

T-REX Analyzer Software allows to compute the displacement measurements line-wise carried out every meter or half-meter.

Wider measuring range than any existing incremental extensometer allowing applications in soil and rock

High precision distance measurements in boreholes

The integration of inclinometer measurements permits 3-D deformation monitoring

Fully compatible with Sisgeo inclinometer readout and operating cable

No mechanical contact between probe and target or coupling



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ACCESSORIES AND SPARE PARTS

OREXROD2000	Positioning rods with quick-joint coupling. Aluminium alloy made, 2 meter long
OREXROD10BX	Set of 10 T-REX rods supply with a box 100x50x2050mm
OREXOCASE00	T-REX aluminium shock-resistance carrying case
OS2RCS05000	Slip-ring cable reel equipped with 50m marked cable. For cable specifications please refer to the "Inclinometer Probes" relevant data sheet
OS2RCS10000	Slip-ring cable reel equipped with 100m marked cable
OS2RCS15000	Slip-ring cable reel equipped with 150m marked cable
OREXOCS1000	T-REX pulley and cable stop
OREXORING93	T-REX reference ring, ID 71mm, OD 93mm
OREX0AF7093	T-REX spider ring, 3 blades, ID 71mm
OCDL012EXBP	Setting rod for T-REX rings
OCDL012EXBP	Additional battery pack for ARCHIMEDE portable datalogger
OSWREX01000	T-REX Analyzer data management software package



T-REX Reference Ring

PROBE TECHNICAL SPECIFICATIONS



ARCHIMEDE battery pack

Model	REX45100	REX45050
Measuring base	1.000 mm	500 mm
Measuring range	+/- 100 mm	+/- 50 mm
Accuracy	+/- 0.02 mm	+/- 0.01 mm
Reading resolution	0.01 mm	0.01 mm
Power supply	24 V DC	
Electric consumption	140 mA in operation	
Operating temperature	-10°C +60°C	
Water resistance	IP68 Up to 1.5 MPa	
Outer diameter	40 mm	
Total length	1.530 mm	1.000 mm
Weight	5.4 Kg	3.6 Kg
Material	stainless steel, brass and aluminium	

CE electromagnetic compatibility according to EN 61326-1 and EN 61326-A1 directives for EMC emission and immunity

PORTABLE READOUT (PRODUCT CODE OCDL300INCLO)

Measurements by means of T-REX probe can be performed using the Sisgeo ARCHIMEDE datalogger equipped with an external battery pack (product code OCDL012EXBP0). The battery pack is sealed in a waterproof case and, during the measurements, it is connected to the readout unit by a flying cable.

A/D converter	24 bit with autocalibration (19 true bit)
Digital display	graphic backlight LCD, 240 x 128 pixel
Storage memory	2 MB
Communication port	USB 2.0
Temperature range	-20°C +60°C
Operating time	approximately 8 hours with battery pack fully charged

Please refer to the portable datalogger relevant data sheet for further informations.



DATA MANAGEMENT SOFTWARE PACKAGE

T-REX Analyzer data management software package is specially designed to compute the displacement measurements line-wise carried out by means of the T-REX removable extensometer.



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We reserve the right to change our products and specifications without prior notice.