

Multi-Point Borehole Extensometers

Description

Stability and movement behavior of soil and rock masses can be determined by the use of borehole extensometers. A typical rod extensometer consists of a reference head, usually installed at the collar of a drill hole, and one or more in-hole anchors, each of which is fixed in place at a known depth in the borehole. As the soil or rock deforms, the distances between adjacent in-hole anchors change, as do the distances between the individual in-hole anchors and the reference head. This allows an accurate determination of distribution, magnitude, rate and acceleration of deformation in the rock or soil mass intersected by the drill hole.

The number of anchors and anchor depths should be selected based on site geology, geometry of structures in the area, and other site-specific details. The use of two, or more, anchors at various depths allows the engineer to distinguish between potentially dangerous deep seated movements and more trivial surface spalling.

Specifications

Sensor Range	50, 100, 150, 200 mm
Accuracy	+/- 0.25% FSR
Resolution	0.025% FSR
Linearity	0.5% FSR
Operating Temperature	-20Â°C to 80Â°C
Thermal Zero Shift	<0.05% FSR/Â°C
Number of Anchors	1 to 6
Borehole Diameter Recommendation	Minimum 4" (101 mm)
Contact RST Instruments for available custom options.	

FLEXIBLE ROD

ORDERING METHOD: 1) Select Above Grade or Below Grade Installation 2) Select Manual or Combination Head 3) Select type and range of sensors 4) Select type and length of rods 5) Select type of anchors

RIGID ROD SPECIFICATIONS

Heads

ITEM

Combination Heads

Mechanical Heads

Part

MPBX

EXMPBXMA1 (1 point) EXMPBXMA2 (2 points)

EXMPBXMA3 (3 points) EXMPBXMA4 (4 points)

EXMPBXMA5 (5 points) EXMPBXMA6 (6 points)

Rods

1/4 in. Standard, Stainless Steel Individual PVC Sheath	EXRO2502 (0.25 m) (1.0 m) EXRO2530 (3.0 m)	EXRO2505 (0.5 m) EXRO2515 (1.5 m) EXRO2520 (2.0 m)	EXRO2510 EXRO2535 (3 ft.) EXRO2550 (5 ft.) EXRO2600 (10 ft.)
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Anchors

Groutable

EXMP11000M (metric) EXMP11000 (imperial)

Hydraulic Borros
Groutable with Spring Legs
Bladder AnchorEXHY13000 (double acting)
EXMP12000M (metric) EXMP12000 (imperial)
EXIL14000 (customer specifies borehole diameter)

SPECIFICATIONS