



3-Point Rod Extensometer

Highlights

- Opportunity to measure capacity on demand
- Possibility of installation along vertical or inclined axes
- Wide measuring range
- Option to add electronic head
- 100 mm measuring capacity



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3-Point Rod Extensometer

Definition

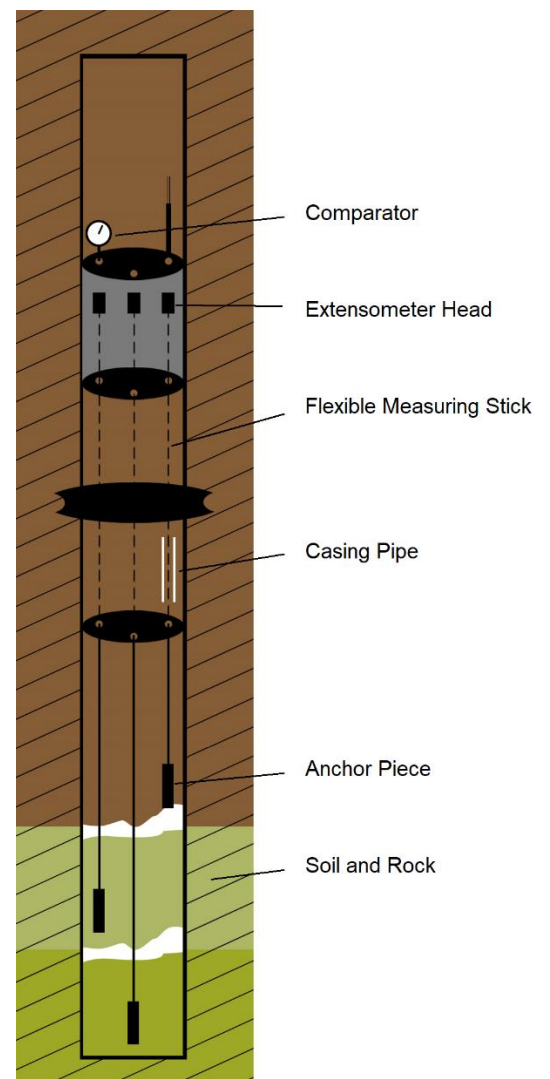
The deformation behavior of soil and rock masses and interacting structures can be determined using borehole extensometers.

The 3-point rod extensometer is mainly used to monitor the changes in distance between a measuring head at the surface and anchoring points, each fixed at specific depths on a near-horizontal axis in the borehole or on the facade of shoring structures.

The GeoAnts multi-point rod extensometer system is available as a product of our own R&D design and manufacturing.

Usage Areas

- Tunnels
- Mines
- Slopes
- Deep excavation shoring systems
- Dam construction projects
- Bridges and piers



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Working Principle

- The measuring head is fixed into the borehole at the desired level hydraulically or by injection.
- The anchor element is firmly fixed in the borehole, the system is formed by the flexible system rod that extends to the upper level of the borehole and transmits the movements.
- Thus, relative movements are recorded by measuring the change in position between the measuring head and the anchor point.
- The rod is isolated from the natural material or injection mixture in the borehole by a protective tube and is therefore free-moving.
- Packer anchors and different hydraulic systems can be used instead of rod anchors in different types of soils or rock masses.
- The reading is taken with the help of a dial gauge or an electronic displacement meter.



- ✓ Single or 3-point options
- ✓ Delivery from stock
- ✓ 100 mm capacity – please contact for customized capacities.
- ✓ Extensometer head with 75 mm diameter
- ✓ Electronic or mechanical reference header options
- ✓ Optional automatic data collection system integration
- ✓ Possibility to measure with 0.1% of the measuring capacity or less

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