

GEO - Biaxial Tiltmeter Precise Rotation Sensor

Applications

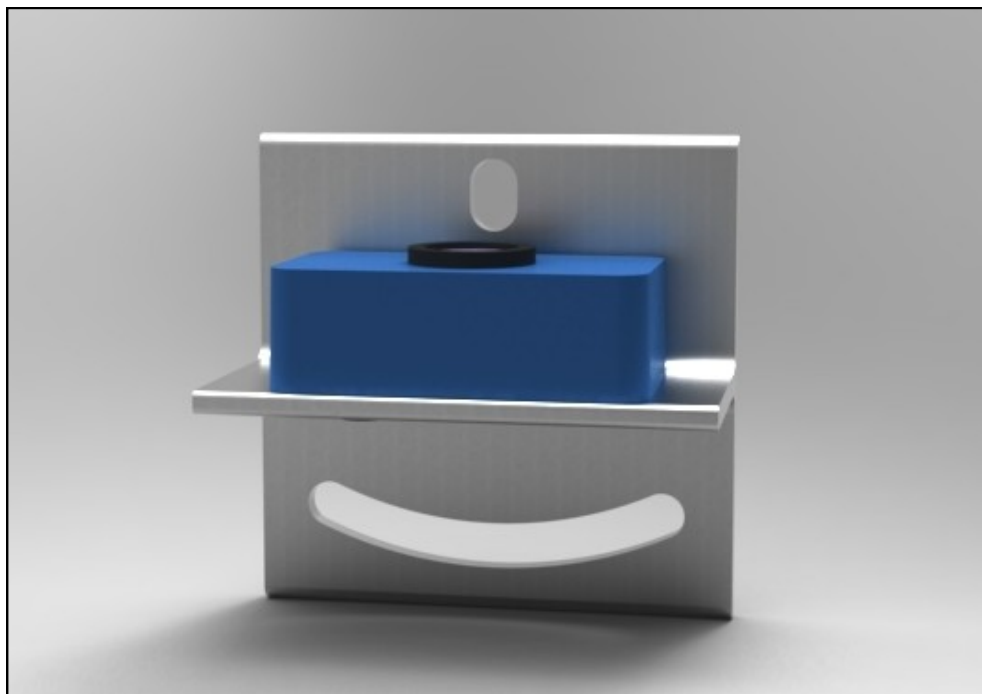
- Tilt and rotation in open pit excavations
- Directional tilt and displacement of buildings during construction
- Monitoring of structures during adjacent construction activity
- Monitoring of dams
- Tunnel wall monitoring
- Long term monitoring of historic structures

Description

The Geo-Tiltmeter is a field rugged shock resistant general purpose device. It consists of a precision tilt sensor with a proprietary circuit board encapsulated in an injection molded plastic matrix with an integrally molded cable to eliminate water intrusion.

The proprietary circuit board allows digital communication via RS485 protocol. It also has a sensor addressable feature that allows multiple sensor interconnectivity on a single pair cable. Alternatively, a simple voltage output that is compatible with common data-loggers is also provided.

The sensor combines a wide range with high resolution to provide optimum performance for most structural deformation requirements without requiring range adjustment as rotation occurs.



The biaxial version allows tilt measurement in two orthogonal planes, minimizing the instrument footprint on project structures, and saving time, money and space on tight installation schedules.

Features

- Built in target type bubble level to get the sensor to approximate level in two axes.
- Aluminum mounting bracket adjustment arc/center gravity referenced mounting hole, allows easy sensor leveling, and provides adjustment range to accommodate varied field conditions.
- Biaxial versions available at nomi-

nal extra price in the same form factor.

- Temperature measurement on sensor available on request.
- Auxiliary brackets available that allow mounting on horizontal surfaces.

Specifications

Range: +/-10 degrees

Resolution: +/- 2 Arc Seconds

Accuracy: +/- 0.1%

Input Voltage Range: 8-16VDC

FS Output: +/- 4VDC

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