



INSTRUMENTS

Geo-Instruments: Tiltmeter Systems

Geo-Instruments Tiltmeter systems provide a proven long term monitoring solution for many structural applications requiring discrete rotation measurements in near real time. They are easily installed and provide a direct method to detect differential movement and rotation in structures.

Typical applications include:

- Effects of deep excavations and diaphragm wall construction on adjacent existing structures
- Structural Health/Long term monitoring applications
- Deformation monitoring within tunnels, including convergence applications
- Compensation grout monitoring
- Remote monitoring of distressed structures.
- Verification of SOE design assumptions.

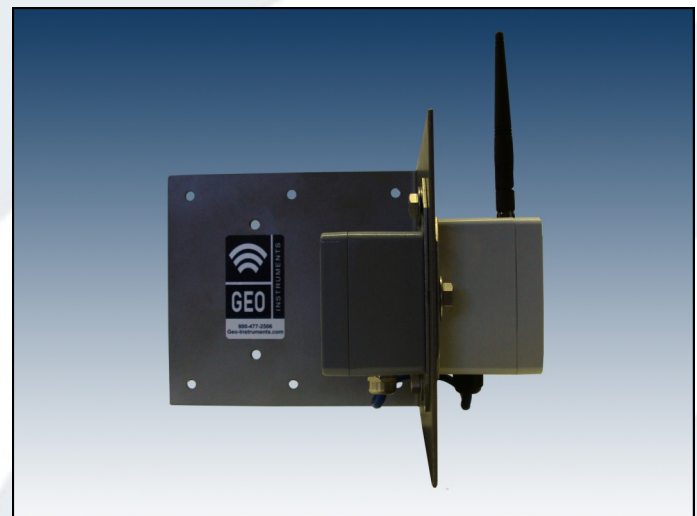
Benefits to this system include:

- Robust, accurate, simple and reliable
- Very cost effective per measurement point
- Proven technology, with good long term stability
- Versatile installation as discrete points, i.e. vertical, or horizontal walls, ceilings or uneven angled surfaces

Geo-Instruments Tiltmeter Systems may be integrated with our Wireless Minilogger data logging system, or with standard CSI type loggers. Please see separate datasheets for loggers.



Above: Tiltmeter unit shown on angle bracket (integrated with Wireless Minilogger data logging system). Bracket configuration is designed to allow two tiltmeters installed orthogonally for biaxial tilt measurements.



Above: Side view of Tiltmeter integrated with Geo-Instruments Wireless Minilogger. Note: Tiltmeter can also be mounted vertically on 1.5 inch beam sensor stock in application where right angle bracket is inappropriate.

Range	+/- 45 Arc Minutes
Accuracy	+/- 0.1mm/m
Resolution	0.02% Full Scale
Repeatability	+/- 0.05% Full Scale
Excitation Voltage	2.5v AC
Current Consumption	<1µA
Output Signal	Ratiometric AC
Operating Temperature	-20 to +50° C
Zero Adjustment Range	+/- 5° Fine +/-25° Course
Ingress Protection	IP66

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