MEMS In-Place Tilt Meter

MEMS In-Place Tilt Meters are designed to measure uniaxial or biaxial tilt, which is measured from the plane(s) perpendicular from the base unit.

It is designed to be installed permanently in either the vertical or horizontal position by either bonding or bolting directly to a structure or mounting plate. Data is read via a cable with either a portable readout or connected into a data logger.

The tilt sensor is mounted within a rugged, heavy duty waterproof cast metal enclosure suitable for the harsh environments found within the construction and building industries.

Available as an analogue or digital (RS-485) version, it offers a range of output signals including voltage, milli-amps and digital bus. The digital bus version allows several tilt meters to be daisy-chained together on a single cable over 1000 metres long.

Each unit is individually calibrated to provide the ultimate in system accuracy and repeatability and can be used in conjunction with most data-loggers.

Applications

For monitoring tilt in:

- Retaining walls
- Diaphragm walls
- Concrete dams
- Party walls
- Structures
- Bridge piers
- Tunnels
- Compensation grouting
- Slopes
- Piles

Accessories

- Horizontal mounting plate
- Vertical mounting bracket
- MEMS analogue readout
- Ultra-rugged field PC
- Digital interface RS-485

Features

- Ultimate accuracy and repeatability
- Uniaxial or biaxial sensors option
- EMC-CE & LUL compliant
- LSHF cable option
- Horizontal or vertical mounting
- Easy to install
- Digital bus available (RS-485)
- Analogue output
- IP66 waterproof enclosure
- Durable powder coating
- Cost effective

About PCTE

PCTE have over 30 years' experience in the measurement and testing of construction materials. PCTE can provide more than just the equipment, they can provide expert training. PCTE have a service centre in Sydney in which they can provide calibration, repairs and warranty repairs.

Other Equipment

PCTE supply three main ranges: NDT, Lab and Geotech Instrumentation.

NDT includes: Rebound Hammers, Covermeters, Ultrasonics, GPR, Corrosion Testing, Coating Testing and Foundation Testing

Lab includes equipment for: Concrete, Cement, Aggregate, Soil, Asphalt and Metal

Geotech Instrumentation includes: Strain Gauges, Piezometers, Inclinometers, Extensometers, Tiltmeters, Load Cells and Dataloggers