



Tilt3000 portable clinometer



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Geotechnical and Structural Monitoring Instruments and Systems

Tilt3000 portable clinometer



Description

The Tilt3000 Portable Clinometer is a high-precision digital instrument designed to measure small rotations or slight changes in inclination with exceptional accuracy. Unlike many other automatic electronic devices, the Tilt3000 offers a level of precision that is difficult to match. This is made possible by its specialized design and meticulous manufacturing process, which incorporates high-quality materials, precision machining, and a state-of-the-art electronic level sensor. As a result, the instrument delivers a measurement accuracy of 2 arcminutes over a ± 30 arcminute range. This outstanding precision is further supported by specially engineered bases that enable both direct and conjugate measurements, effectively eliminating systematic errors. These features collectively ensure the Tilt3000's superior measurement reliability and underscore the overall quality of the system.

Applications

An excellent professional tool for checking rotations and deformations in all types of structures:

- Dykes
- Tunnels
- Bridges
- Viaducts
- Civil and historical buildings
- Monuments
- Archaeological sites
- Diaphragms and walls
- Poles
- Towers
- Chimneys
- Minarets
- Others

Characteristics and Benefits

The instrument presents:

- High precision
- Mechanical precision
- High quality optical assemblies
- Possibility of systematic error compensation
- Easy to transport
- Robust
- User-friendly
- Good for high-quality professional performance



Measuring principle

The sensor is characterized by a high-resolution and high-repeatability electrolytic level. The measurements are performed automatically once the instrument is positioned on the measuring station and the operator initiates the process using the 'Start' command. The power is supplied by two internal rechargeable AA-style batteries, supported by an external battery charger. The Tilt3000 offers a measurement range of ± 30 arcminutes, with a resolution and repeatability of 2 arcminutes. It is fully interchangeable with the Toric Level Clinometer and compatible with both circular and extension bases. Key components, particularly the support plates, undergo repeated thermal cycling to stabilize the material and eliminate any potential settling over time. This process ensures long-term structural stability and maintain high measurement accuracy, even with temperature fluctuations. The instrument consistently delivers a direct measurement accuracy of 2 arcminutes and seamlessly integrates with all bases designed for the Toric Level Clinometer.

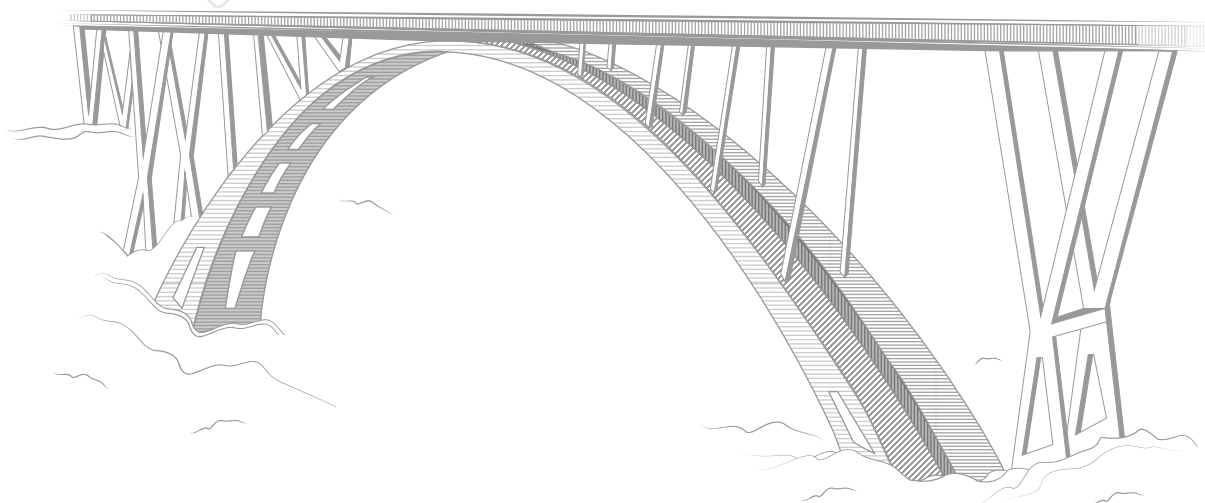
Technical Specifications

Measuring range	$\pm 30'$
Accuracy	2"
Instrument weight	1,1Kg
Container	Polypropylene copolymer antischok case
Container dimensions	21cmx12cmx15cm
Tool weight with case	1,8Kg
Power supply	n. 4 rechargeable batteries NiMH – AAA Micro HR03 - - 1,2V – Min. 1050mAh
Battery charger	(110-240)V / 12V

The Company

For over 40 years we have been producing precision and large facility monitoring instruments sold throughout the world.

Accuracy in design, efficiency in construction, reliability in management; these are the prerogatives that every major work must have and that Structural Monitoring Systems must guarantee.



Technical assistance

If you have any requests or questions about our instruments or if you have special needs that require different solutions from the standard, please contact us. Our team will provide all the necessary information and will be very happy to work with you to study, develop and customize instruments and solutions suitable for your specific needs.

All data present in the sheets could change without notice.

Please check the release carefully and for more details contact Pizzi Instruments.

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