## India Tools & Instruments Co.

PRECISION IS EVERYTHING



India Tools >> Our Products >> Clinometer / Inclinometer

## **High Precision Digital Display Inclinometer**

Digital Display Inclinometer +/- 46 deg, +/- 180 deg, +/- 90 deg,



The ITI-INCLINOMETER-46/M digital inclinometer is a handheld device designed to measure slope with high accuracy. It can measure slope with an accuracy of 10 seconds of arc at ±5° and 1 minute of arc at ±46°. ITI-INCLINOMETER-46/M features temperature compensation and fast calibration, making it reliable for operational environments. Thanks to its low-power design, intelligent power-saving features, and lithium-ion rechargeable battery, the ITI-INCLINOMETER-46/M offers up to 33 hours of battery life on a single charge. Besides, taking advantage of a 2.8" touch screen and user-friendly graphical user interface (GUI), along with measurement in units of degrees, arc seconds, mm/m and mil make slope measurement easier with the ITI-INCLINOMETER-46/M. By using microelectromechanical sensors (MEMS) and 3D acceleration data processing, ITI-INCLINOMETER-46/M's has been able to maintain its accuracy throughout the measurement interval. In addition, thanks to temperature compensation and the use of "multi-factor temperature calibration" technology Utilizing microelectromechanical sensors (MEMS) and 3D processing of acceleration data, ITI-INCLINOMETER-46/M inclinometers maintain their

accuracy throughout the measuring range. In addition, owing to temperature compensation and the use of multifactor temperature calibration technology, the temperature drift of ITI-INCLINOMETER-46/M is less than 0.03° in the entire temperature range (0°C ~ +40°C).

## Digital Display Inclinometer +/- 180 deg

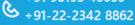
## **Product Description**

Unleash unparalleled accuracy and durability with the ITT-Inclinometer-180-V, meticulously crafted to meet the demands of professionals in need of precise dual-axis inclination measurement. Engineered with advanced technology, this robust tool offers a comprehensive measuring range of ±180°, ensuring high-precision results.

- Ultra-Precise Performance: Experience the pinnacle of precision with a resolution of 0.01 mm/m and limits of error of just 1 arcmin (Full Range) 10 arcsec in ±5° range, fortified by a repeatability of 0.004°, to deliver the consistency you can depend on.
- Rapid Response: With a response time of under 5 seconds, the ITT-Inclinometer-180-V keeps up with fast-paced environments, providing data output options through USB-C interface.
- Versatile Units of Measure: Tailor measurements to your project's needs with a selection of units including Deg, arcsec, arcmin, mm/m, mil, bringing flexibility to your fingertips.
- Rugged Design for Fieldwork: The ITT-Inclinometer-180-V boasts a temperature coefficient of less than 0.01 °/°C, with a working range from 0° to 50°C and 85% relative humidity – all contained in an aluminium hard anodized housing for maximum protection.
- Long-lasting Operation: A standard Lithium-ion Battery and external power source ensures continuous operation for 33 working hours, even withstanding shock impacts up to 10grms and 100Hz.
- Intuitive Interface: A 2.8" touch and resistive TFT LCD screen with 320\*240 pixels radiates in full color, delivering a user-friendly experience and clear visibility.
- Customizable Dimensions: The base length is a practical W95L115H32 mm, adaptable per customer orders to seamlessly integrate into your workflow.
- IP54 Protection: Rest assured, with IP54 certification, this device resists dust and water intrusion, standing strong against the elements.
- Smart Capabilities: Make the most of convenient features such as the ability to select desired units, automatically set zero, and switch between absolute or relative measuring modes.
- Advanced Connectivity: Transferring data is a breeze with the capability to connect to a computer for recording absolute and relative (Relative Zero) measurements on a plane (Plane-Mode).



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