

India Tools & Instruments Co.

PRECISION IS EVERYTHING



India Tools >> Our Products >> Clinometer / Inclinometer

High Precision Digital Display Inclinometer

Digital Display Inclinometer $\pm 46^\circ$, $\pm 180^\circ$, $\pm 90^\circ$,



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 $\pm 5^\circ$ and 1 minute of arc at $\pm 46^\circ$. 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 multi-factor 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 $\pm 180^\circ$, 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 $\pm 5^\circ$ 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).

+91 98193 45050
+91-22-2342 8862
www.indiatools.co
ojus_itico@hotmail.com
12/18, Tawa Lane, Off A.R. Street, Unity House, 1st floor, Office No.7,
1st floor. MUMBAI - 400 003. Maharashtra. INDIA.

