

India Tools & Instruments Co.

PRECISION IS EVERYTHING



India Tools >> Our Products >> Clinometer / Inclinator

ITI - Digital Inclinator – 46 / 46-M (magnet)

The ITI-INCLINOMETER-46 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 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 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. By using microelectromechanical sensors (MEMS) and 3D acceleration data processing, ITI-INCLINOMETER-46'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 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 is less than 0.03° in the entire temperature range ($0^\circ\text{C} \sim +40^\circ\text{C}$).



Technical Specifications:

- Number of Axis – Dual Axis.
- Resolution – 0.01mm/m.
- Measuring range $\pm 46^\circ$
- Size – 100 x 30 x 75 mm approx.
- User Quick Calibration.
- 2.8-inch Touchscreen.
- Error limit of 10 seconds of arc in $\pm 5^\circ$ range (S-Mode).
- The error limit of 1 arc minute in $\pm 46^\circ$ (Full Range).
- Temperature compensation in the operating range ($0^\circ\text{C} \sim +40^\circ\text{C}$).
- Maintaining accuracy throughout the range with “3D Processing of Acceleration Data”.
- Capability of connecting to a computer and transferring data.
- More than 33 hours of continuous work with a single charge.
- Capability of measuring absolute and relative (Relative Zero).
- Possibility of measuring relative rotation 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.

