

T-Meter II

Handheld portable concrete roughness tester



Tough, fast and reliable

Handheld portable concrete roughness tester

The T-Meter II measures average roughness (Ra), flooring texture (Ft) and concrete surface profile (CSP).

In addition, the T-Meter II also measures all nine surface texture grades (STG) in Concrete Sawing & Drilling Association Standard CSDA **ST-115** and proposed **ATSM** standard **WK49335**.

How it does it

A diamond stylus is drawn across the concrete surface. The motorized traverse mechanism is cam driven to ensure that the correct horizontal distance is traveled.

Vertical movement is detected by a piezoelectric pickup which converts mechanical movement into an electrical signal. The electrical signal is digitized and sent to a microprocessor where the parameters are instantly calculated using standardized algorithms.

The measurements are displayed in either micro inches and micrometers. Once the measurement is displayed, the units can be interchanged without repeated readings.

The bottom half contains the traverse mechanism, and stylus pick up assembly, this is placed on the surface to be measured. It has a wide base to ensure stability.

The upper half includes the large LCD display, start button, mode and parameter buttons. This is held comfortably in the hand for easy operation and clear viewing of the results.

Fast and reliable

Simply press the measurement button and in a few seconds a full set of traceable measurement results including a detailed profile graph is displayed.

Built to last, by design...

Impact resistant rubberised mouldings surround a recessed, Mylar protected high durability screen making the unit robust enough for even the most demanding industrial environments.



1 Measure

Tactile measurement button great for challenging orientations.

2 Separates.

The device splits into a display/control unit and traverse unit via a slide and lock mechanism.

3 Bluetooth technology

Quick, reliable communication between traverse and display/control unit.

4 Profile graph

Clear detailed graph showing measurement area – excellent for visually identifying defects.

5 Simple 3-button navigation.

Instant access to menu options and settings.



6 Diamond stylus and piezo-electric pick-up

The hard wearing, robust piezo-electric pick-up stylus with diamond tip assures very reliable measurement.

7 Li-Poly battery

Most advanced rechargeable battery technology for unrivalled reliability and battery life.

8 Rubberised moulding

Enhanced durability and improved grip provides unbeatable protection in harsh shop floor environments..

9 USB mini charging port

The mini USB port can be used for charging with the included mains charger (or with any standard USB charger).



Bluetooth connectivity

This next generation bluetooth technology boasts super efficient connectivity allowing wireless communication between the display unit and traverse unit.

In situ measurements

Monitor wear and roughness changes during the concretes lifetime. Fast and precise surface inspection on a wide range of concrete flooring.

InstantOn

By utilising InstantOn technology this instrument is ready to measure in less than 5 seconds from switching on!

Keeping it simple

The T-Meter philosophy keeps the process simple. It is the perfect tool for any inspector to check surface roughness even in the most demanding applications.

- Quantifying the texture on concrete surface
- Initial surface assessment
- Checking for surface irregularities
- Assessing serviceability of concrete

User-friendly, not user-hostile!

The T-Meter II is as simple and easy-to-use as any SmartPhone. Users have the advantage of the intuitive quick access 3-button menu and its crisp 2.4" daylight readable industrial colour LCD screen.

Built for power...

Powered by heavy duty reliable Li-Poly technology, the T-Meter II operates 24/7 with over 2000 measurements from a single charge.

Standards and traceability

The reference standard supplied can be used to calibrate the instrument to ensure the most accurate results are always being achieved.

Measurement	Best capability
Roughness standards (Ra)	$\pm(2\% + 0.1575 \mu\text{in})$
Workpiece or component surface texture (Ra)	$\pm 3\%$ of measured value per trace

The Metrology Experts

Established in 1886, Taylor Hobson is the world leader in surface and form metrology and developed the first roundness and surface finish measuring instruments.

www.taylor-hobson.com

Sales department

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- **Design engineering** – special purpose, dedicated metrology systems for demanding applications.
- **Precision manufacturing** – contract machining services for high precision applications and industries.

Centre of Excellence department

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Service department

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- **Preventative maintenance** – protect your metrology investment with an AMECare support agreement.



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