

Portable Surface Roughness Tester

This is a high-accuracy surface roughness tester. It is compatible with ISO1997, ANSI, and JIS2001 standards and can test over a dozen measurement parameters.



Overview

Precision Surface Analysis

This portable surface roughness tester features an integrated design for convenient, high-accuracy measurement of surface texture in manufacturing and engineering environments. It utilizes an inductive sensor probe to capture over a dozen measurement parameters, including Ra, Rz, and Rq, displayed clearly on a TFT LCD touch screen. Designed for versatility, it supports multiple filtering methods and international standards, making it a reliable tool for quality control.

Measurement Capabilities

Accuracy & Repeatability

10 % Accuracy	6 % Repeatability
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Supported Parameters

Ra, Rp, Rv, Rt, Rz, Rq, Rsk, Rku, Rc, R_{Pc}, R_{Sm}, R_{mr}, Rk, R_{pk}, R_{vk}

Technical Specifications

Sensor Details

Feature	Specification
Test Principle	Inductance type
Stylus Tip Radius	5 μ m / 2 μ m
Stylus Tip Material	Diamond
Measuring Force	4mN / 0.75mN
Stylus Tip Angle	90° / 60°

Operating Range

400 μ m

Traversing Speed

0.25 mm/s to 1 mm/s (variable by cut-off length)

Connectivity & Compatibility

Supported Standards

ISO1997 • ANSI • JIS2001

Data Interfaces

- RS232
- USB
- Printer support (TIME TA230)

Physical & Power

Dimensions	155.4 x 75 x 53 mm
Weight	580 g
Power Source	Built-in Li battery