

Surface Roughness Tester "MICROSURF 10A" High accuracy Inductive Transducer, cross-section LCD display, man-machine conversation, intuitive interface, easy operation. Can store the latest 7 groups measurements.



Product Description

Widely used in production site to measure surface roughness of various machine-processed parts calculate Corresponding and clearly display the measuring parameter.

Product Features

- Multi Parameter measurement: Ra, Rq, Rz, Rt.
- Use DSP chip control and Data processing, high speed, low power consumption LCD digital backlit display.
- Can be measured in several parts of the surface roughness Planar, Curve surface, small hole, slot of the Irregular surface.
- Can communicate with PC computer for statistics and printing by the optional cable and software RS 232C
- Design of electromechanical integration, small volume, light weight, convenient with measuring value storage.
- Built in Re-chargeable battery.
- Auto power off
- Optional Adaptor Sleeve, Deep Groove Sensor, USB, RS 232 for PC Connection.

Technical Specification

Standard	ISO 4287 International Standard, DIN 4768 German Standard JISB 601 Japanese Standard, ANSI B46.1 American Standard	
Measuring Range	Ra, Rq Rz, Rt	0.005 ~ 16.00µm / 0.020 ~ 629.9µinch 0.020 ~ 160.0µm / 0.078 ~ 6299µinch
Accuracy	Not more then $\leq \pm 10\%$	
Resolution	0.001µm Reading $< 10\mu\text{m}$ 0.01µm $\leq 10\mu\text{m}$ if reading $< 100\mu\text{m}$ 0.1µm if reading $\leq 100\mu\text{m}$	
Fluctuation of Display value	Not more than $\leq 6\%$	
Profile Digital Filter	Filter contour Non- filter contour	RC, PC-RC, GAUSS D-P
SENSOR	Test Principle Radius of Probe PIN Material of probe PIN Measurement force of Probe Probe Angle Vertical Radius of Guiding Head Maximum Driving Stroke Cut off Length(/)	Induction Type 10µm Default 2µm Diamond 16mN(1.6gF) for 10µm & 0.75mN (0.075gf) for 2µm 90° 48mm 17.5mm / 0.7 inch 0.25mm / 0.8mm / 2.5mm
Driving Speed	When Measuring Return	Vt = 0.135mm/s If sampling Length = 0.25mm Vt = 0.5mm/s If sampling length = 0.8mm Vt = 1mm/s If sampling length = 2.5mm Vt = 1mm/s
Probe Measuring range	+ 80µm	
Evaluation Length	1 ~ 5L Selectable	
Metric / Imperial	Conversion	
Power	Li-ion Re-chargeable battery	
Working Environment	Temperature Humidity	0~50° <85%
Standard Accessories	Standard Probe, Standard Sample Plate, power Adaptor, Adjustable Leg, Sheath of Sensor, Manual	
Optional Accessories	USB + Software for PC Connectivity, Adaptor Sleeve (Extension Rod), Deep groove Sensor.	