

Surface Roughness Tester (res. 0.001 mµ)

LEEB432

Product Description

The surfaces roughness tester is suitable for shop floor use and mobile measure to need of a small handheld instrument, it operation simple, function overall, measure fast, accuracy stability, take convenience. This tester applies to production site and can be used to measure surface roughness of various machinery-processed parts. This tester is capable of evaluating sueface textures with a variety of parameters according to various national standards and international standard. The measurement results are displayed digital/graphically on the OLED, and output to the printer.



Standards

- ISO
- DIN
- ANSI
- JIS
- multiple other national standards

Technical Specification

- Electromechanical integration design, small size, light weight, easy to operation
- DSP chip control and data processing, high speed, low power consumption
- Large measurement range
- 14 parameters: Ra Rq Rz Rt Rp Rv R3z R3y RzJIS Rs Rsk Rku Rsm Rmr
- 128 × 64 OLED dot matrix display, digital or graphic highlight display; no viewing angle
- Display full information, intuitive and graphical displays all parameters
- Compatible with ISO, DIN, ANSI, JIS multiple national standards
- Built-in lithium-ion rechargeable battery and control circuit, high capacity, no memory effect
- Remaining charge indicator, charging signal
- Tester has charging instructions, the operator can readily understand the level of charge
- Can work more than 20 hours while the power is enough
- Large capacity data storage, can store 100 item of raw data and waveforms
- Real-time clock setting and display for easy data recording and storage
- With automatic sleep, automatic shutdown power-saving features
- Reliable circuit and software design of prevent the motor stuck
- Instrument can display a variety of information tips and instructions. For example Measurement result display, the menu



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prompts and error messages

- Metal case design, rugged, compact, portable, high reliability
- Can connected to the computer and printer
- All parameters can be printed or print any of the parameters which set by the user
- Optional curved surface pickup sensor, holes sensors, measurement stand, Sheath of sensor, extension rod, printer and analysis software



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Main Technical Parameters

Name		Content
	Z-Axis (vertical)	160 μm
Measurement Range	X-Axis (horizontal)	17.5 mm
		0.01μm /±20μm
		0.02μm /±40μm
Resolution ratio	Z-Axis	0.04μm /±80μm
		Ra Rz=Ry(JIS) Rq Rt=Rmax
		Rp Rv R3z R3y Rz(JIS)
	Parameter	Rs Rsk Rku Rsm Rmr
	Standard	ISO, ANSI, DIN, JIS
Measurement item	Graphic	Material ratio curve
Filter		RC, PC-RC, Gauss, D-P
The sample length (<i>l</i> r)		0.25, 0.8, 2.5 mm
Assessment length (ln)		Ln=Irxn n=1~5
	Principle	Displacement differential inductance
	Stylus	Natural diamond, 90° cone angle, 5m tip radius
	Force	<4mN
	Skid	Ruby, Longitudinal radius 40mm
		lr=0,25, Vt=0.135mm/s
		lr=0.8, Vt=0.5mm/s
		lr=2.5, Vt=1mm/s
Sensor	Traversing speed	Return Vt=1mm/s
Accuracy		±10%
Repeatability		±10%
Power supply		Built-in 3.7V Li-ion battery; Charger: DC5V, 800ma/3hour
Working time		More than 20 hours
Outline dimension (lxwxh)		141x55x40 mm
Weight		About 400g
Working Environment		Temperature: -20°C~40°C ; Humidity: < 90% RH
Store and transportation		Temperature: -40°C~60°C ; Humidity: < 90% RH



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Packing List:

- Main unit
- Sensor (precision parts)
- Adjustable support
- Calibration block
- Block bracket
- Charger
- USB Charging cable
- Operation manual
- Certificate
- Guarantee card
- Instrument container
- Thermal printer (optional)

Disclaimer

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