MITECH

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MR100

Pocket Surface Roughness Tester

- Professional manufacturer, best quality with competitive price
- Recommended by the world UT NDT inspection association for training and examination
- Core technology with independent intellectual property rights, certificate of CE, GOST and etc..

Product Overview

MR100 pocket surface roughness tester is a sensor & host integration pocket instrument with easily carrying, easily operation, highly measurement accuracy, widely measurement range and stably working characteristics. It can be widely used in various metal and nonmetal processing surfaces' detection.

Technical Specifications

Technical Specifications	Technical Parameters
Measurement Parameters(μm)	Ra、Rz、Rq、Rt
Stroke Length(mm)	6
Lr(mm)	0.25、0.80、2.5
Assessment Length(mm)	1.25、4.0、5.0
Measurement Range(μm)	Ra： 0.05 ~ 10.0 , Rz： 0.1 ~ 50
Indication Error	±15%
Indication Variation	< 12%
Probe tip's Arc Radius And Angle	10.0±2.5 μm; 90°
Measuring Force and Change Rate	≤0.016N; ≤800N/m
Sensor Head Pressure	≤0.5N
Battery	3.7V Lithium-polymer battery
Charger	DC 5V, 500mAh
Dimensions	105 mm×70 mm×24 mm
Net Weight	200g

Features

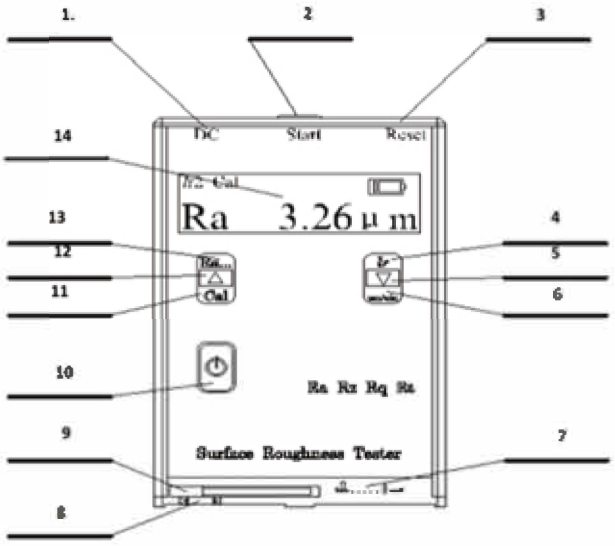
- Measurement parameters: Ra, Rq, Rz, Rt.
- Using high-precision piezoelectric crystal transducer.
- Mechatronics design, smaller and lighter.
- 128×32 OLED dot matrix LCD displays clearly and without backlight.
- Using DSP chip execute control and data processing.
- Built-in lithium polymer rechargeable batteries and charging protection circuit.
- Probe head protection gate.
- Mini-USB charging interface, available for phone charger.

Measuring Principle

Needle scanning method, the inside probe detects the surface of the work piece, reciprocate along vertically. makes the piezoelectric wafer deform and output electric signal. Amplified and level translated to. DSP chip conduct digital filtering and parameter calculation for the collected data.

Measuring Principle

1. charger port
2. Start key
3. Reset key
4. Lr key
5. Down arrow
6. Unit transform
7. Gate switch
8. Probe
9. Probe protection gate
10. Power Switch
11. Indication calibrate
12. Up arrow
13. Parameter switch
14. OLED display



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