

Texture Meter - Surface Roughness Tester SRT-6200



Overview:

This instrument is compatible with four standards of ISO, DIN, ANSI and JIS and is widely used in production site to measure surface roughness of various. It will calculate corresponding parameters according to the selected measuring conditions and clearly display all measurement parameters. When measuring the roughness of a surface, the sensor is placed on the surface and then uniformly slides along the surface by a driving mechanism inside the tester. The sensor measures the surface roughness (texture) by the sharp built-in probe. Surface roughness causes a displacement of the probe which results in change of inductive amount of induction coils so as to generate an analogue signal. The signal is in proportion to the surface roughness which is output to a phase-sensitive rectifier. This calculates and then outputs the measurement results on LCD.

Features:

- Very easy to operate
- Multiple parameter measurement: Ra, Rz
- Highly sophisticated inductance sensor.
- Built-in lithium ion rechargeable battery and control circuit with high capacity.
- Small in size, light in weight and easy to use.
- Can communicate with a computer for statistics, printing and analysis through the optional cable and the software for RS232C interface.
- Has both Manual and automatic shut down. The tester can be switched off by pressing the Power key at any time. The tester will power itself off about 5 minutes after the last key operation.

Specifications:

- Display: 4 digits, 10 mm LCD, with blue backlight
- Parameters: Ra, Rz
- Display Range:
 - Ra: 0.05-10.00um/1.000-400.0uinch
 - Rz: 0.020-100.0um/0.780-4000uinch

- Accuracy:
 - Not more than 10% Fluctuation of display value: Not more than 6%
- Sensor: Test Principle: Inductance type
 - Radius of Probe Pin: 10um
 - Material of Probe Pin: Diamond
 - Measurement Force of Probe: 16mN(1.6gf)
 - Probe Angle: 90°
 - Vertical Radius of Guiding Head: 48mm
- Maximum driving stroke: 17.5mm/0.7inch
- Cutoff length (l): 0.25mm / 0.8mm / 2.5mm optional
- Evaluation length: 1~5 cut off optional
- Driving speed: sampling length = 0.25mm Vt=0.135mm/s
 - sampling length = 0.8mm Vt=0.5mm/s
 - sampling length = 2.5mm Vt=1mm/s
 - returning Vt=1mm/s
- Resolution: 0.001μm if reading <10μm
 - 0.01μm if 10μm=reading<100μm
 - 0.1μm if reading =100μm
- Power Li-ion battery: rechargeable
- Operating conditions:
 - Temp. 0-50?
 - Humidity <80%
- Size: 140x57x48 mm (5.5x2.2x1.9 inch)
- Weight: 420 g

Terms and Conditions:

Purchase orders are subject to Janda Corporation credit department approval. Freight is prepaid and added. Title to merchandise transfers to purchaser upon delivery to the carrier. Responsibility for loss or damage in transit is with purchaser. Software licensed to original purchaser. A one-year warranty applies to all new equipment. Applicable sales tax to apply. FOB Annapolis, MD 21403 USA. Payment Terms Net 30 Days.

SEND PURCHASE ORDER TO: JANDA CORPORATION, 301 Burnside Street Suite C-101, ANNAPOLIS, MD 21403-6314 USA

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