DIGITAL INSTRUMENT

Surface Roughness Tester



Model:

SRT-6210 (Functional Type) SRT-6200 (Basic Type)

Applications

Widely used in production site to measure surface roughness of various machinery-processed parts, calculate corresponding parameters according to selected measuring conditions and clearly display all measurement parameters.

Principle

When measuring the roughness of a surface, the sensor is placed on the surface and then uniformly slides along the surface by driving the mechanism inside the tester. The sensor gets the surface roughness by the sharp built-in probe. This roughness causes displacement of the probe which results in change of inductive amount of induction coils so as to generate analogue signal, which is in proportion to the surface roughness at output end of phase-sensitive rectifier. The exclusive DSP processes and calculates and then outputs the measurement results on LCD.

Features

- * Be compatible with standards of ISO, DIN, ANSI and JIS.
- * Small in size, light in weight and easy to use.
- * Highly sophisticated inductance sensor.
- * SRT-6210 can measure parameters of: Ra, Rz, Rq, Rt. With Four wave filtering methods : RC, PC-RC, GAUSS and D-P. Can memorize 7 groups of measurement results and measuring conditions for later use or download to PC.
- * SRT-6200 can measure parameters of: Ra, Rz.
- * Built-in lithium ion rechargeable battery and control circuit with high capacity.
- * Manual or automatic power off. Metric /Imperial.
- * Use RS-232 data output to connect with PC.
- * Provide Bluetooth data output choice.



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Specifications

Model		SRT-6210 SRT-6200	
Standards		GB/T6062, ISO4287, DIN4768, JIS B, ANSI46.1	
Parameters		Ra, Rq, Rz, Rt	Ra, Rz
Measuring Range		Ra, Rq: 0.005~16.00μm / 0.020~629.9μinch Rz, Rt: 0.020~160.0μm / 0.078~6299μinch	Ra: 0.05~10.00μm / 1.000~400.0μinch Rz: 0.020~100.0μm / 0.780~4000μinch
Accuracy		≤±10%	
Fluctuation of Display Value		≪6%	
Resolution		0.001 / 0.01 / 0.1	
	Radius of Probe Pin	5µm	10µm
	Material of Probe Pin	Diamond	
	Measurement Force of Probe	4mN (0.4gf)	16mN (1.6gf)
Sensor	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	
Driving Speed		When Length = 0.25 mm , Vt = 0.135 mm/s	
	Sampling	When Length = 0.8 mm , Vt = 0.5 mm/s	
		When Length = 2.5 mm, Vt = 1 mm/s	
	Returning	Vt = 1mm/s	
Profile Digital Filter		RC, PC-RC, GAUSS, D-P	
Evaluation Length		1~5 L Optional	
Data Memorize		7 Groups	
Operating Conditions		Temp.: 0~50°C	Humidity: <80%RH
Power Supply		Built-in Rechargeable Li-ion Battery	
Dimensions		140x52x48 mm	
Weight		420g	

Standard Accessories	Remarks
Main Unit	\checkmark
Standard Sensor SRP-100	\checkmark
Standard Sample Plate SSP-100	\checkmark
Small Screwdriver	\checkmark
Carrying Case	B09
Operation Manual	\checkmark

Optional Accessories	Remarks
Extension Rod SER-150	\checkmark
Groove Stylus SRP-110	\checkmark
Curvature Probe SRP-120	\checkmark
Measurement Stand SRS-1	\checkmark
RS-232C Cable with Software	\checkmark
Bluetooth Adapter with Software	\checkmark



Probes

Model & Name	Applications	Structure Diagram
SRP-100 Standard Sensor	Used for roughness tests on plane surface, shafts and in bores from 5.5 mm diameter. Maximum bore depth 22mm	22 5.2 5.2 6 51 79
SRP-110 Groove Stylus	used to measure the surface roughness of deep groove, greater than 5 mm in width, less than 9.5 mm in depth; or the pedestal seat less than 9.5 mm in height.	22 5.2 51 6 79
SRP-120 Curvature Probe	used to measure surface roughness of curved workpiece larger than 3 mm in curvature radius	22 51 79 51 1.6 52 52 52 52 52 52 53 1.6 52 52 53 1.6 52 52 53 1.6 52 52 53 52 53 52 53 52 53 52 53 53 53 53 53 53 53 53 53 53

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