

Concrete Surface Texture Tester SRT-6210CT

Applications

The SRT-6210CT measures surface roughness (Ra, Rz, Rq, Rt) of concrete, compatible with ISO, DIN, ANSI, and JIS standards. It features a precise inductance sensor, four wave filtering methods, and stores up to 7 results. Compact and easy to use, it offers USB/RS-232 and Bluetooth data output options for convenient data transfer.

Features

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



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.

Specifications

Standards	GB/T6062,ISO4287,DIN4768,JIS B,ANSI46.1	
Parameters	Ra,Rq,Rz,Rt	
Measuring Range	Ra,Rq:0.005 μ m~20.00 μ m Rz,Rt:0.020 μ m~200.0 μ m	
Accuracy	$\leq \pm 10\%$	
Fluctuation of Display Value	$\leq 6\%$	
Resolution	0.001/0.01/0.1	
Sensor	Radius of Probe Pin	10 μ m
	Material of Probe Pin	Diamond
	Measurement Force of Probe	16mN(1.6gf)
	Probe Angle	90 $^{\circ}$
	Vertical Radius of Guiding Head	48 mm
	Maximum Driving Stroke	17.5mm/0.7inch
	Cutoff length(l)	0.25mm,0.8mm,2.5mm
Driving Speed	Sampling	When Length=0.25mm,Vt=0.135 mm/s
		When Length=0.8mm,Vt=0.5mm/s
		When Length=2.5mm,Vt=1mm/s
	Returning	Vt=1mm/s



Profile Digital Filter	RC,PC-RC,GAUSS,D-P
Evaluation Length	1L~5L Optional
Data Memorize	7 Groups
Operating Conditions	Temp:0°C~50°C Humidity:<80%RH
Power Supply	Built-in Rechargeable Li-ion Battery
Dimensions	140mmx52mmx48mm
Weight	420g
Standard Accessories	Main Unit
	Standard Sample Plate SSP-100
	Standard Sensor SSP-100
	Small Screwdriver
	Carrying Case (B09)
	Operation Manual
Optimal Accessories	RS-232C Cable with Software
	Bluetooth Adapter with Software
	Extension Rod SER-150
	Groove Stylus SRP-110
	Curvature Probe SRP-120
	Measurement Stand SRS-1