

## SR210 Surface Roughness Gauge



### Summary:

SR210 portable roughness measuring instrument is a new product of Unirew Group Co.,Ltd, it is a portable stylus surface roughness shape measuring instrument, applicable to the workshop testing station, laboratory, metrology room environmental detection. Measurement of parameters in line with international standards of the United States, Germany, Japan and is compatible with Britain and other industrial developed country standards. Measurement results can be digital and graphic LCD display, also can be output to the printer.

### Functions and features:

1. Electromechanical integration design, small volume, light weight, easy to use;
2. Using DSP chip to control and data processing, high speed, low power consumption;
3. Large range, parameters Ra, Rz, Rq, Rt, Rp, Rv, R3z, R3y, RzJIS, Rsk, Rku, Rsm, Rmr, Rx;
4. 128 x 64 OLED dot matrix display, digital / graphic display; highlight no perspective;
5. Display information rich, intuitive, can display all the parameters and graphics;
6. Compatible with ISO, DIN, ANSI, JIS national standards;
7. Built-in lithium ion rechargeable battery and a charging control circuit, high capacity, no memory effect;

8. Residual quantity indicator icon, prompting the user to charge;
9. Display of the charging process instructions, the operator can understand the degree of charge;
10. Working time more than 20 hours of continuous work;
11. Large capacity data memory, can store 100 groups of original data and waveform;
12. Real-time clock settings and display, convenient data recording and storage;
13. With automatic dormancy, automatic shutdown and power saving function;
14. Reliable control motor to go dead circuit and software design;
15. Measurement information display, menu prompt information, false information and switch machine and other tips that information;
16. Full metal shell design, sturdy, compact, portable, high reliability;
17. Can be in English freely switch;
18. Can be connected to a computer and printer;
19. Optional sensor surface, hole sensor, measuring platform, sensor, an extension rod and other accessories;

### Standard configuration:

Host	1
Standard sensor	1
Reticle temp-let	1
Template support	1
Movable support	1
Power adapter	1
USB charging cable	1
instrument container	1

### The performance index of sensor:

The detection principle	Current induction
Measuring range	160 μm
Tip radius	5 μm
Tip material	Diamond
Stylus force	4mN(0.4gf)
Stylus angle	90°
The guide head vertical radius	45mm

### Technical parameters:

Item	Description
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The maximum driving trip	17.5mm/0.7inch
Indicating error	Not more than $\pm 10\%$
Variation of indication	Not more than 6%
The measured profile	Roughness, waviness, the original contour
Parameter	Ra (0.005 $\mu\text{m}$ ~ 16 $\mu\text{m}$ ) , Rz (0.02 $\mu\text{m}$ ~ 160 $\mu\text{m}$ ) , Rq, Rt, Rp, Rv, R3z, R3y, RzJIS, Rsk, Rku, Rsm, Rmr, Rx.
Filter	RC,PCRC,Gauss,ISO13565
The sampling length L	0.25mm,0.8mm,2.5mm,8mm
Evaluation length L	(1-5)l
Internal storage capacity	100 groups of original data
External input / output interface	USB
Electric source	Built-in rechargeable lithium ion battery or external power adapter

### Outline dimension:

Product Size: 143 x 55 x 42mm (host).

Weight: about 0.4KG (host).