Service Call: +86-13711988687



Portable Surface Roughness Tester

Brief Introduction:

Portable surface roughness tester used to measure surface roughness of various machinery-processed parts, especially for roughness measurement of complex parts, such as: Flat, Curved surface, Grooves and Holes.

Capable of evaluating surface textures with a variety of parameters according to various national standards and international standard.

The measurement results are displayed digital/graphically on the LCD, and output to the printer.



Main feature:

- 1. Mechatronics design, small size, light weight and convenient to use;
- 2. High precision inductive sensor;
- 3, using DSP chip for control and data processing, fast speed, low power consumption;
- 4. GAUSS filter;
- 5, 128 × 64 dot matrix OLED LCD screen
- 6, built-in lithium ion rechargeable battery and charging control circuit, high capacity, no memory effect, continuous working time is more than 20 hours;
- 7, with automatic shutdown, memory and various information;
- 8, optional curved sensor, small hole sensor, measuring platform, extension rod and other accessories
- 9. Compatible with ISO, DIN, ANSI and JIS national standards;
- 10, The system language can be switched between Chinese and English.
- 11, The measuring unit can be selected between metric system and inch system.



Technical Parameter:

ltem		Parameter		
Measuring Z axis (vertical)		200μm		
range	X Axis (horizontal)	15mm		
Resolution	7	0. 01μm/±20μm		
	Z axis (vertical)	0.02μm/±40μm		
		0. 04μm/±80μm		
Measuring project	Parameter	Ra、Rq、Rsm、Rsk、Rz、Rt、Rp、Rv、Rc、Rco		
	Standard	ISO,ANSI,DIN,JIS		
	Graphics	Bearing rate curve, roughness profile, direct profile		
Filter		GAUSS filter		
Sampling length		0.25,0.8,2.5mm		
Rating length		Ln= lr×n n=1~5		
Sensor	Measuring	Displacement differential inductance		
	principle			
	Stylus	Natural diamond, 90 cone angle, 5μm tip radius		
	Force	<4mN		
	measurement			
	Lead	Carbide, sliding direction radius 45mm		
	Sliding speed	lr=0.25, Vt=0.135mm/s		
		Ir=0.8, Vt=0.5mm/s		
		lr=2. 5, Vt=1mm/s		
		Return Vt=1mm/s		
Indication error		Less than ±10%		
Indication variability		Less than 6%		
Power		Built-in lithium ion rechargeable battery, charged with DC5V, 800mA		
		charger		
Dimensions		158x63.5x46mm		
Weight		About 300g		
Working environment		Temperature: -20° C ~ 40° C Humidity: < 90% RH		
Storage and transportation environment		Temperature: -40°C ~ 60°C Humidity: < 90% RH		

Measuring range:

Parameter	Display range	
Ra,Rq	0.005μm ~ 16μm	
Rz,R3z,Ry,Rt,Rp,Rm	0.02μm ~ 160μm	

The standard configuration:

Main Unit	1	Standard sensor	1
Multi-line standard block	1	Adjustable bracket	1
Power Adapter	1	Instruction manual	1
Certificate	1	Warranty Card	1