

Product name: Surface Roughness Tester

Item: TR200

Details:

Outline

The Surface Roughness Tester is a small handheld mobile measurement that suitable for production environment. Simple operation, overall function, fast measurement, accuracy stability, convenience, it can measure the newest international standard the main parameter. This tester executes international standards comprehensively and strictly.

Features

- High accuracy inductance pickup;
 - 13 parameters;
 - Using DSP for data processing and control, high speed, low power consumption;
 - Four filtering methods of RC、PC-RC、GAUSS and D-P;
 - Compatible with four standards of ISO、DIN、ANSI and JIS;
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- Can store 15 sets of measurements results;
 - 128*64 dot matrix LCD display all parameters, graphs, Chinese and English menu;
 - Built-in lithium ion chargeable battery and control circuit have high capacity;
 - Design of mechanical and electrical integration is adopted to achieve small bulk, light weight and easy usage;
 - Built-in standard RS232 interface enables communication with PC;
 - Automatic switch off, memory and various prompt instructions;
 - Optional measurement platform etc.

Technical parameters

Item		Parameter
Measuring range	Z Axis(Vertical)	160μm
	X Axis(Horizontal)	17.5mm
Resolution	Z Axis(Vertical)	0.01μm/±20μm
		0.02μm/±40μm
		0.04μm/±80μm
Measurement item	Parameters	Ra, Rq, Rz,Rt, Rp, Rv, RS, RSm, Rz(JIS), Ry(JIS), Ry(JIS) , RSk, R3z, Rmax,
	Standard	ISO, ANSI, DIN, JIS
	Graphic	Roughness profile, Material ratio curve, Direct profile
Pickup	principle	Differential inductance
	Stylus	Natural Diamond, 90B cone angle, 5μm tip radius
	Force	<4mN
	Skid	Ruby, Longitudinal radius 40mm
	Sliding speed	lr=0.25, Vt=0.135mm/s
		lr=0.8, Vt=0.5mm/s
		lr=2.5, Vt=1mm/s
		Return Vt=1mm/s
Accuracy	≤ ±10%	
Repeatability	≤ 6%	
Power supply	Built-in Lithium ion battery, AC adapter 8.4V,800mA	
Dimensions(L×W×H)	119×47×65mm	
weight	approximately 380g	