

Intelligent Type Roughness Tester DR230



Features

- OLED display 128×64
- DS100 pickup is in standard delivery
- High accuracy $\pm 10\%$ and repeatability $\pm 6\%$
- Compatible with ISO1997, DIN, ANSI, JIS2001 multiple national standards
- 20 parameters: Ra, Rz, Rq, Rt, Rp, Rv, R3z, R3y, Rz(JIS), Rsk, Rku, Rsm, Rs Ry(JIS)=Rz; Rmax=Rt, R_{PC}, Rk, Rpk, Rvk, Mr1, Mr2.
- 160μm large measurement range
- 4 Profile Filter: Gauss, RC, PC-RC, DP
- Large capacity data storage of 100 data and graph
- Connected to PC for data transfer and print
- Built-in lithium-ion rechargeable battery, more than 20 hours continuous work
- Auto shutdown for power saving



Standard Delivery

- Main Unit
- Glass support
- Screwdriver
- Charger and cable
- Carrying case
- Standard pickup
- Test block
- Software
- Operating manual
- Calibration certificate



Technical Specification

Roughness Parameters	Ra, Rz, Rq, Rt, Rp, Rv, R3z, R3y, Rz(JIS), Rsk, Rku, Rsm, Rs; Ry(JIS)=Rz; Rmax=Rt, R _{PC} , Rk, Rpk, Rvk, Mr1, Mr2
Standard	ISO, ANSI, DIN, JIS
Assessed Profiles	Roughness profile, Material ratio profile, direct Profile
Measuring Range	The X axis(Horizontal): 17.5mm; The Z axis(Vertical): 160 μm
The Max./Min. driving trip	17.5mm / 0.75mm
Resolution (Horizontal)	0.01μm/±20μm, 0.02μm/±40μm, 0.04μm/±80μm,
Filter	RC, PC-RC, Gauss, D-P
Sample length (lr)	0.25mm, 0.8mm, 2.5mm
Memory	100 groups of original data
Evaluation length(ln)	Ln=lr x n n=1-5
Pick up	Inductive, Diamond stylus with Radius 5 μm and angle 90°
Tolerance	≤±10%
Repeatability	≤6%
Output	USB
Power	Li-ion Battery rechargeable, work more than 20 hours
Dimensions	143mm (L) x 55mm (W) x 42mm (H)
Weight	400g

Optional Pickup



Standard Pickup: With skid for roughness test on plane surface, shaft and inner surface of holes with min. diameter of 5mm, max. depth of 22mm.



Curved surface: Used for roughness testing of curved surface with min curvature radius 3mm.



Small holes:Used for roughness testing of small holes with min. 2mm diameter of inner surface, max. depth 9mm.



Deep grooves:Used for roughness testing of deep groove with min. width 2mm, max. depth 3mm or of step with max. height 3mm.



Deep grooves:Used for roughness testing of deep groove with min. width 3mm, max. depth 10mm or of step with max. height 10mm.



Right-angled transmit rod: right-angled transmit rod, used for roughness testing of groove and crank with min. width 7.5mm-20mm, and of steps with max. height 2.5mm.