

Surface Roughness Tester

R-1000



Technical Data:

Surface Roughness parameter	Ra(ISO),Rz(DIN),Rms(Rq),Rt
Measuring range	Ra:0.05-10.0μm/Rz:0.1-50mm Rq:0.05~10.0μm/Rt:0.1~50μm
Resolution	0.01μm(1.6minch)
Cut-off lengths	0.009"(0.25mm),0.03"(0.80mm),0.09"(2.50mm)
Filter	RC analogue
Tracing length	0.23in.(6mm)
Tracing speed	0.04in/second(1.0mm/second)
Accuracy	±12% of actual Value
Pick-up stylus	Piezo-electric
Tracer tip	Diamond,radius 5μm
Operating temperature	32-104 degrees F (0-40 Degrees C)
Power	3.6V /2xNiMh batteries
Charger	9v DC
Contact force on probe	<1.8ozf(<50gf)
Static measuring force of sensor stylus	<0.06ozf(<1.6gf)
Dimensions	4.9x2.8x1.0in (125x73x26mm)
Weight	0.4lbs(200g)

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R-1000 surface roughness tester is a pocket-sized economically priced instrument for measuring surface roughness texture conforming to traceable standards. It can be used on the shop floor in any position, horizontal, vertical or anywhere in between.

The large LCD display shows either surface roughness parameter Ra,Rz,Rms(Rq) and Rt at the touch of

a button, combined with the selected cutoff length. External calibration of the surface roughness values is possible by means of a special CAL button, which makes adjustment of this instrument very easily. A beep signal informs the user about each individual measurement status when ready.

The easy to use R-1000 surface roughness tester operates on various surfaces, not only flat but also outer cylinder, outer cone, grooves, and recesses greater than 80x30mm. The areas of application are wide spread. It is suitable for inspection departments, quality control, on the shop floor during machining, during assembly in the field.

The R-1000 determines surface roughness parameters Ra,Rz,Rms(Rq) and Rt within a wide measuring range. The piezo-electric pick-up stylus with diamond tip assures a very reliable measurement within tolerances that conform to ASME B46.1. Surface Roughness parameter Ra is computed to conform to ISO and Rz is computed to conform to DIN

R-1000 surface roughness tester comes complete with a compact durable carrying case, roughness

