

Technical Specification Roughness Tester PCE-RT 11

Roughness Tester PCE-RT 11

Roughness tester for accurate determination of roughness according to Ra, Rz, Rq and Rt / with piezoelectric probe / big OLED display with backlight

The Roughness Tester PCE-RT-11 is a portable measuring instrument for determination of surface roughness according to Ra, Rz, Rq and Rt in just one device. The small roughness tester is especially designed for fast measuring of roughness. The roughness (obsolete: throatiness) is a term of surface physics that describes unevenness of surface height. The roughness tester works according to the same piezoelectric micro probe principle like the highly accurate laboratory measuring instruments. The easy handling of the roughness tester as well as the high repetitive accuracy characterizes this device. After touching the button the piezoelectric micro probe of the roughness tester scans the surface within seconds and shows digitally, according to the preselected cut-off length, either the value Ra, Rz, Rq or Rt.

- With real time battery display
- USB interface
- Simple calibration
- Also for cylinder and inclined area
- With slider to protect the probe
- Wide measuring area
- OLED display
- With roughness standard
- Piezoelectric probe
- With backlight

Technical Specifications

Roughness parameters	Ra, Rz, Rq, Rt
Accuracy	± 15 %
Repeatability	< 12 %
Measuring area Rz, Rt	0.1 ... 50 µm
Measuring area Ra, Rq	0.05 ... 10 µm
Cut-off length	f0.25 mm, 0.8 mm, 2.5 mm
Scanning path in total	6 mm
Probing speed	1 mm / s
Probe system	piezoelectric probe
Probe diamante	10 µm ± 1 µm tip radius
Inclination angle	OLED display
Ambient temperature	-20 ... +40 °C
Humidity	< 90 %
Power supply	3.7 V Li-Ion-accumulator
Load-time	3 hours
Dimension	106 x 70 x 24 mm
Weight	200 g