ROUGHNESS-TESTER

PCE-RT 11



- **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**

This Roughness Tester is a portable measuring instrument for determination of surface roughnessaccording to Ra, Rz, Rq and Rt in just one device. The small roughness tester is especiallydesigned for fast measuring of roughness. The roughness is a term ofsurface physics that describes unevenness of surface height. The roughness tester worksaccording to the same piezoelectric micro probe principle like the highly accurate laboratorymeasuring instruments. The easy handling of the roughness tester as well as the high repetitiveaccuracy characterizes this device. After touching the button the piezoelectric micro probe ofthe roughness tester scans the surface within seconds and shows digitally, according to thepreselected cut-off length, either the value Ra, Rz, Rq or Rt.

Specification

Roughness	
Roughness value	Ra, Rq
Measuring range	0,05 ... 10 µm
Resolution	0,01 µm
Accuracy	±15%

Roughness	
Roughness value	Rz, Rt
Measuring range	0,1 ... 50 µm
Resolution	0,1 µm
Accuracy	±15%

General technical data	
Measuring functions	Ra, Rz, Rq, Rt
Display Typ	OLED
Interface	Mini-USB
Sensor	Piezoelectric
Charging time	3 h
Repeatability	12 %
Cut-off wavelength	0.25 mm, 0.8 mm, and 2.5 mm
button	Total scanning distance: 6 mm Scanning speed: 1 mm/s Scanning diamond: 10 µm ±1 Δm Tip radius Probe angle: 90° (+5° or -10°)
Menu language	English (US), English (GB)
Protection class (device)	IP20
Power supply	3.7 V
Connector type	Device Europlug
Battery/battery	1 x 3,7 V intern , Lithium-ion battery
Battery capacity	850 mAh
Operating conditions	-20 ... 40 °C , 0 ... 90 %RH
Storage conditions	-20 ... 40 °C , 0 ... 90 %RH
Dimensions (L x W x H)	106 x 70 x 24 mm
Weight	200 g