



# ROUGHNESS TESTER KR-110

The PHYNIX roughness tester KR - 110 is characterized by high accuracy, a wide range of applications with large measuring range, easy operation and a stable construction. It is used to determine the surface roughness according to Ra, Rz, Rq and Rt and can be used for measurements on all types of metals and non-metals.

During the measuring process the sensor moves linearly along the traverse length. At the same time, the probe tip is slowly moved up and down according to the roughness profile. These movements are converted into electric signals, amplified, filtered and digitized. With the help of a digital signal processor, the digital voltage values are converted into the desired parameters Ra, Rz, Rq and Rt and finally displayed.

#### Application areas

- Evaluation of wear and damage
- Measurement of roughness on metals or other hard surfaces
- Suitable for test rooms, laboratories, workshops and many more

#### Advantages at a glance:

- + Modern, innovative design. The sturdy aluminum casing prevents the influence of electromagnetic interference
- + Digital Signal Processor (DSP) for fast data logging and analysis
- + Bright OLED display
- + Li-Ion battery with long operation time and short charging time. During charging, measurements can be performed.
- + USB socket for battery charging
- + The linear movement of the probe ensures a high degree of uniformity of flow and thus a high repeatability
- + Practical information on the display (device status, measurement parameters, battery indicator)
- + Integrated slide to protect the diamant tip during non-use
- + Automatic shutdown

# KR-110

Technical data	KR-110
Roughness parameter	Ra, Rz, Rq, Rt
Scanning length	6 mm
Cut-off wavelengths	0,25 mm, 0,8 mm, 2,5 mm
Measuring range	Ra/Rq: 0,05 – 15,0 µm Rz/Rt: 0,1 – 50 µm
Measurement accuracy	+/- 15 %
Repeatability	< 12%
Radius of the probe tip	10 µm
Angle of the stylus	90°
Scanning principle	Piezoelektric
Display	OLED-Display
Power supply	3,7 V Li-Ion-Akku
Operating temperature	-20 °C ... +40 °C
Dimensions	106 mm x 70 mm x 24 mm
Weight	200 g

## Lieferumfang

- Gauge with integrated tracer
- Built-in Li - Ion battery
- USB - AC adapter with USB cable
- (Glass-) roughness standard (Ra)
- Carrying case
- Operating instructions German / English
- Test certificate

