

# KYR-100 High Quality Surface Roughness Gauge

## Application

The small electronic roughness tester KYR100 is designed accurate measurements. The gauge is suitable for use on the well as for inspection departments and quality control

## Description

KYR100 uses a piezoelectric stylus and allows

- Roughness measurement by Ra and Rz method
- Three cut-off length at choice

KYR100 is simply placed on the surface to be measured and the surface within only a few seconds. Depending on the preset cut-off length, the value is immediately displayed in Ra or Rz



for quick and production floor as

micro stylus scans

## Ra and Rz

Rz= mean surface roughness

The mean surface roughness Rz is the arithmetical mean of the highest single reading of several adjacent single measuring sections.

Ra= arithmetical average high

Ra is the generally acknowledged roughness parameter which is internationally used. This value is the arithmetical mean of the profile deviations from the mean value.

The numerical value is always smaller than the Rz value taken from the roughness profile.

KYR100 confirms to NIST calibration requirement, also DIN 4768 and ISO 4288.

## Technical Data

Roughness range	Ra(ISO), Rz(DIN), Ra and Rz in one gauge
Measuring range	Ra: 0.05 ... 15 um Rz: 0.1 – 50 um
Cut-off length	<del>A1 0.25mm/A2 0.8mm/A3 2.5mm</del> selection of false cut-off length is indicated in the display
Surface to be measured	flat or convex; in groove (min. width 30 mm, length 80 mm)
Tolerance	±6% of reading
Pick-up	piezo-electric stylus with diamond tip, radius 10 um
Tracing length	6 mm
Tracing speed	1 mm/sec.
Measuring unit	um-mil select by user
Operating temperature	0°C - 40°C
Power supply	built-in rechargeable battery with indication of battery condition mains
Power charger	AC Plug with USB cable, 110/220, 50/60 Hz
Instrument housing	aluminum
Dimension/weight	125 mm x 73 mm x 26 mm / 200 g



Standard package

- ※ Main gauge
- ※ Calibration standard
- ※ USB cable
- ※ AC adaptor
- ※ Hard impact ABS plastic case