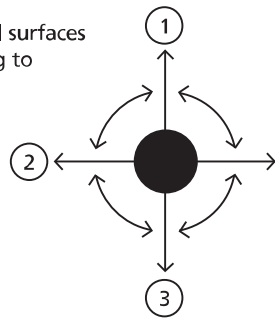


## Surface Roughness Tester IPX-103/104

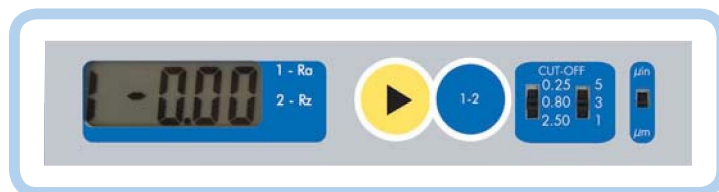
Handheld surface roughness tester for external surfaces and grooves. The IPX-103/104 is a portable, battery-powered instrument for checking surface roughness, with the measured values displayed on a digital readout display. The instrument can be used in laboratory, inspection area, workshop, or wherever on-site surface roughness testing is required.

### Features

- Pocket-sized and economically priced!
- External and internal finish testing with swivable tracer
- Ra and Rz parameters in one instrument and all available after each individual test
- Standard 9V battery (not included)
- Three cut-off 0.25mm, 0.8mm and 2.5mm, adjustable to 1-3-5 times
- Piezo-electric pick-up stylus for external surfaces with diamond tip of 2 micron according to the latest ISO standards
- IPX-104 with data output



The IPX-103/104 is a portable, battery-powered instrument for checking surface roughness, with the measured values displayed on a digital readout display. The instrument can be used in laboratory, inspection area, workshop, or wherever on-site surface roughness testing is required.

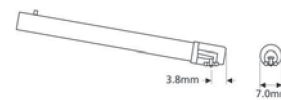


### TECHNICAL SPECIFICATION

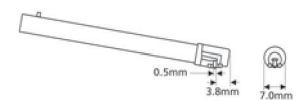
Measuring ranges	Ra-- 0.03µm ~ 6.35µm (1µ"~250µ") Rz-- 0.2µm ~ 25.3µm (8µ"~999µ")
Display resolution	0.01µm / 1µ"
Cut-off	0.25mm / 0.001", 2RC filter, select 1-3-5 times 0.8mm / 0.03", 2RC filter, select 1-3-5 times 2.5mm / 0.01", 2RC filter, select 2 times
Display	3-digit LCD
Accuracy	Meets ISO and DIN standards
Probe Type	Piezoelectric
Maximum stylus force	15.0mN / 1500mgf
Stylus tip radius	Diamond, 2 micron
Power	9V alkaline battery (not included)
Battery capacity	Approx. 3000 measurements
Output	RS-232 to pc or printer (only IPX-104)



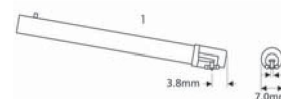
Standard probe for most applications



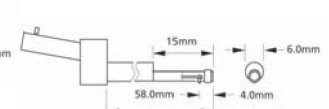
Parallel chisel probe for gauging sharp edges or small O.D., perpendicular for axis of traverse



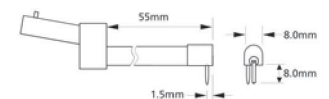
Transverse chisel probe for gauging sharp edges or small O.D., aligned to axis of traverse



Small bore probe, minimum inside diameter 5.0mm, up to depth of 15.0mm



Groove bottom probe for measuring the bottoms of O-ring grooves, recesses and holes up to 8.0mm depth



### Standard Delivery

- Main unit IPX-103/104
- Protection cover
- Roughness test plate Ra
- Carrying case
- Manual
- RS-232 (only IPX-104)
- INSPEX certificate

### Optional Accessories

- Tracers for special applications
- Stand for stable testing
- Mini-printer with cable
- Datacable to MS-Hyperterminal

