

Surface Roughness Gauges

Portable Digital Meters

TR100 Surface Roughness Gauge

Roughness Scales	Ra (ISO), Rz (Din)
Measurement Range	Ra: 0,05µm to 10,0µm / Rz: 0,1µm to 50,0µm
Accuracy	Conforms to ISO Class 3
Measurement angle	Any (but 90° to surface)
Cut-off lengths	0,25mm / 0,8mm / 2,5mm
Trace length / speed	6mm / 1mm per second
Stylus and Pickup	Diamond, 10µm radius/ 90° angle / Piezoelectric
Compact Size	125 x 73 x 26 mm
Power	Two 3,6v NiMH Batteries
Supplied c/w carry case, Ra test piece, charger and manual	



- ** Pocket sized
- ** Large Display
- ** Economical Price
- ** Large measuring range
- ** Calibration on Keyboard
- ** Suitable for most Materials
- ** Rechargeable Batteries



- ** Backlit LCD
- ** Pocket sized
- ** Large Display
- ** Economical Price
- ** Large measuring range
- ** Calibration on Keyboard
- ** Suitable for most Materials
- ** Rechargeable Batteries

TR110 Surface Roughness Gauge

Roughness Scales	Ra (ISO), Rz (Din)
Measurement Range	Ra: 0,05µm to 10,0µm / Rz: 0,1µm to 50,0µm
Accuracy	Conforms to ISO Class 3
Measurement angle	Any (but 90° to surface)
Cut-off lengths	0,25mm / 0,8mm / 2,5mm
Trace length / speed	6mm / 1mm per second
Stylus and Pickup	Diamond, 5µm radius/ 90° angle / Piezoelectric
Compact Size	110 x 70 x 24 mm
Power	Two 3,6v Li-ion Batteries
Supplied c/w carry case, Ra test piece, charger and manual	

TR150 Remote Surface Roughness Gauge

Roughness Scales	Ra (ISO), Rz (Din)
Measurement Range	Ra: 0,05µm to 10,0µm / Rz: 0,1µm to 50,0µm
Accur. / repeatability	+/-15% / < 12%
Measurement angle	Any (but 90° to surface)
Samp. / eval. length	0,8mm / 4mm
Trace length / speed	6mm / 1mm per second
Stylus and Pickup	Diamond, 5µm radius/ 90° angle / Piezoelectric
Compact Size	125 x 73 x 26mm
Power	Batteries: Display:CR2477, Meter: Two 3,6v Li-ion
Supplied c/w carry case, Ra test piece, charger and manual	



Detachable Display for operation in difficult or confined spaces.

Wireless Communication within 2 meters



Both **TR200** and **TR210** are supplied with a TS100 inductive stylus, RS232 port for PC or TA220 printer (extra), battery charger, test piece, carry case and manual

TR200 Surface Roughness Gauge

Ranges: Ra, Rq: 0.01-40µm, (Rq,Rmax,Rm,Sk) Rz,Ry,Rp,Rt,R3z: 0.02-160µm Sm,S: 2-4mm, tp: 1-100%
Assessed Profiles: P and R and tp curve
Cut off lengths 0,25mm / 0,8mm / 2,5mm
Bore Tests down to 6mm Ø, 15mm depth (TS100)
Diamond Tip Stylus 5µm radius
Conforms to ISO,DIN,JIS and ANSI
LCD dot matrix backlit display, 0,001µm resolution
Li-ion Rechargeable battery, >3000 tests

TR210 Surface Roughness Gauge

Ranges: Ra: 0.025-12.5µm, Rz: 0.02-160µm, Ry, Rq
Assessed Profiles: R and tp curve
Cut off lengths 0,25mm / 0,8mm / 2,5mm
Bore Tests down to 6mm Ø, 15mm depth (TS100)
Diamond Tip Stylus 5µm radius
Conforms to ISO
LCD dot matrix backlit display, 0,001µm resolution
Li-ion Rechargeable battery

A.W.R. SMITH Process Instrumentation CC

PO Box 449 Pinegowrie 2123 tel: 011 782 7279 fax: 011 782 6840 sales@instruments.co.za

www.instruments.co.za