

SAATIPRINT

The Pocket Surf III Surface Meter is a pocket-sized, battery-operated roughness gauge for measuring stencil and substrate surface roughness parameters in Ra, Rmax and Rz with digital readout. The Pocket Surf III is solidly built with a durable cast aluminum housing for years of accurate surface measurements. Its digital display is conveniently located on top of the device for optimum visibility.



**RZ Meter/
Pocket Surf III**
ROUGHNESS METER

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ROUGHNESS METER

FEATURES

- General purpose probe with 0.0004"/10 micron radius
- Offers three traverse lengths
- Supplied with a certified reference specimen, riser plate battery and custom-fitted protective case
- Easy-to-read liquid crystal display (LCD) presents the measured roughness values in micrometers or micrometers
- Out-of-range (high/low) and battery low warning signals
- Serial output for Statistical Process Control (SPC)

BENEFITS

- Economically priced
- Fast and accurate; measurement produced within a half second of traversing the surface
- Provides a measurable indicator of how efficiently the print side of the stencil controls edge definition
- An acceptable Rz value assures proper gasketing of the stencil to the substrate, and controls the ink flow

OPTION

- Power transformer to replace battery operation

TECHNICAL SPECIFICATIONS

Uses	1,000 p.s.i. (68 bar) @ 2.25 gpm (8.6 lpm), cold water, high or low pressure rinse
Overall Dimensions	Approximately 5½" W x 3" H x 1" D
Measuring Ranges	R _a – 1m" to 250m" / 0,03mm to 6,35mm R _y – 8m" to 999m" / 0,2mm to 25,3mm R _{max} * – 8m" to 999m" / 0,2mm to 25,3mm R _z * – 8m" to 999m" / 0,2mm to 25,3mm
Display Resolution	1m"/0,01mm
Measurement Accuracy	Meets ANSI-B46.1, ISO, DIN standards and MIL specifications
Digital Readout	LCD, 3 digit, battery low signal, "H" and "L" (out-of-range measured values)
Traverse Speed	.2"/5,08mm per second
Cutoff	.030"/0,8mm ANSI 2RC filter
Probe Type	Piezoelectric
Maximum Stylus Force	1500mfg/15.0mN
Power	9 volt consumer-type alkaline battery
Battery Capacity	Approximately 3000 measurements, depending on frequency of use and output option
Operating Temperature	50° to 113°F/10° to 45°C
Storage Temperature	-4° to 149°F/-20° to 65°C

*per DIN 4768

Parameters	Traverse Length	Evaluation Length	# of Cutoffs/ Switch Position
R _a /R _y	.075"/2,0mm	.030"/0,8mm	1
	.135"/3,5mm	.090"/2,4mm	3
R _a /R _z /R _{max}	.195"/5,0mm	.150"/4,0mm	5



SAATI PRINT

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