



RZ METER POCKET SURF III

The Pocket Surf III Surface Meter is a pocket- sized, battery-operated roughness gauge for measuring stencil and substrate surface roughness parameters in R_a , R_{max} and R_z 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.

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 LCD display presents the measured roughness values in microinches or micrometers
- ◆ Out-of-range (high/low) and battery low warning signals
- ◆ Serial output for Statistical Process Control (SPC)
- ◆ Optional power transformer to replace battery operation

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 R_z value assures proper gasketing of the stencil to the substrate, and controls the ink flow

TECHNICAL SPECIFICATIONS

Overall Dimensions	Approximately 5-1/2" 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
Display Resolution	R_{max}^* - 8m" to 999m" / 0.2mm to 25.3mm, R_z^* - 8m" to 999m" / 0.2mm to 25.3mm
Measurement Accuracy	1m"/0,01mm
Digital Readout	Meets ANSI-B46.1, ISO, DIN standards and MIL specifications
Traverse Speed	LCD, 3 digit, battery low signal, "H" and "L" (out-of-range measured values)
Cutoff	.2"/5.08mm per second
Probe Type	.030"/0.8mm ANSI 2RC filter
Maximum Stylus Force	Piezoelectric
Power	1500mfg/15.0mN
Battery Capacity	9 volt consumer-type alkaline battery
Operating Temperature	Approximately 3,000 measurements, depending on frequency of use and output option
Storage Temperature	50° to 113°F/10° to 45°C
	-4° to 149°F/-20° to 65°C

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