

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 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 3,000 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

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