Technical
Data Sheet

Rz Meter Pocket Surf III

Roughness Gauge

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

SHOP

SAATI Americas Corp
201 Fairview St Ext
Fountain Inn, SC 29644

To place orders, call **1-800-431-2200 or visit** www.SAATIexpress.com
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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	Number 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

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