

Model ST-1210 Smoothness Tester Off-Line Profiling of Micro-deviation for Surface Printability Testing of Paper, Paperboard and Sheet



The Model ST-1210 Smoothness Tester with Diamond-tipped Stylus equipped with RS-232 Serial Output.

Full-Featured Automatic Smoothness Tester for Paper

Designed for precise measurement of surface micro-deviation profiles on printed & unprinted paper, liner board, and converted sheet materials. Based on the Emveco stylus method, we are proud to introduce the Model ST-1210 with its unsurpassed accuracy and resolution. Oakland also offers a complete line of instruments for your paper and paperboard quality lab including calipers, tensile testers, friction testers, score-bend testers, roll-hardness testers, and sample cutting & preparation accessories

The Oakland Advantage

Conforms with ASME and TAPPI

Conforms with specifications for ASME B46-1 and TAPPI T-575, Standard Test Methods for Surface Texture (Surface Roughness, Waviness, and Lay).

Advanced Technical Features in Each Model:

Easy, Error-Free Operation: Automatic Profiling

The Model ST-1210 provides full automatic profiling capabilities for down-web and cross-web analysis.

Offering Profiling Drive for Samples of Any Length

The ST-1210 includes a drive wheel to pull sheet samples for automatic thickness profiling. Samples of any length can be analyzed by independent sections, or as one file

Multiple Stylus Configurations Available from Oakland

Choose from a 0.03175 mm (0.00125 inch) diameter Flat Tip or a 25 micron (0.001 inch) Radius Tip to meet your exacting testing requirements. See photo below right.

Expandable, Industry-Leading Software

The Model ST-1210 is a software-driven instrument, with a unique range of automatic and manual features. Software is included with the system, and Oakland can provide computer systems to complete your installation. See photo below left.

Oakland Instrument Corp.

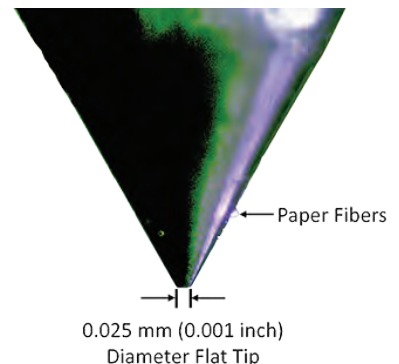
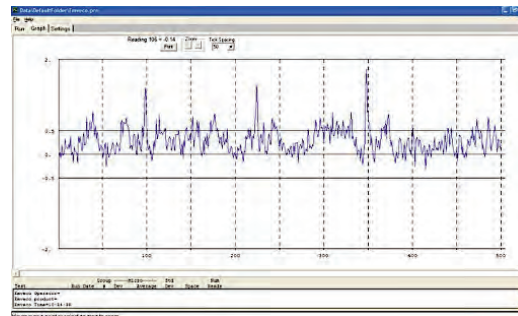
Oakland Instrument Corp. specializes in the design, manufacture and distribution of test, measurement and control systems for the plastics, flexible packaging, and paper industries.

Customer-Driven

We team with our customers to help them solve their quality and process-control problems.

Technology-Based

Our applications knowledge and engineering depth allow us to offer both standard and custom systems based on industry leading technology.



Specifications

Model ST-1210

Mode of operation:	Off-line testing / lab use, Automatic Profiling of Surface Smoothness. Measures micro-average and micro-deviation as indication of smoothness. Based on Emveco Stylus measurement principal.
Materials:	Paper, paperboard, kraft, and cardboard Other sheet materials
Measurement Objective:	Measurement quantifies "printability" of sheet materials
Measurement Range:	51 microns (0.051 mm), 20.00 mils (0.020 inches)
Resolution, Stylus:	0.25 microns (0.00025 mm), 0.01 mils (0.00001 inch)
Stylus Tip Configuration:	Conical with 0.03175 mm (0.00125 inch) diameter Flat, or Conical with 25 microns (0.001 inch) Radius Tip, Consult Factory
Minimum Sample Spacing:	0.0127 mm (0.0005 inch) 0.254 mm (0.010 inch) default sample spacing, paper 0.0254 mm (0.001 inch) default sample spacing, dynamic calibration
Number of Samples per Group:	Programmable (500 default samples per group)
Number of Groups per Sample:	Programmable
Drive Speed:	
Test Speed:	Programmable
Default:	500 (12.7 mm / 0.5 inch) sample travel per second second)
Jog speed	1000, factory pre-set, between groups
Recommended Sample Size:	2.0 – 2.5 cm (8.0 – 10.0 inch) wide up to full web width
Maximum Sample Length:	N/A (any length)
Calibration Feeler Stock:	0.178 mm (0.007 inch), Certified (Included with system)
Serial Data Communications:	RS-232 for Computer Operation of instrument Power
Requirements:	115 VAC, 60 Hz, 230 VAC, 50 Hz or consult factory
Dimensions (W x D x H, Instrument Only)	35 x 28 x 25 cm (14 x 11 x 12 inch)
Weight (Instrument Only)	17 kg (38 lb)

Ordering Information



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