Model ST-1210 Smoothness Tester

Off-Line Profiling of Micro-deviation For Surface Printability Testing of Paper, Paperboard and Sheet

**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**

**Meets ASME and TAPPI**

**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 0.00125 inch dia. Flat Tip or a 25 micron 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, 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 Microaverage and Microdeviation 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: 20.00 mils (0.020 inch)

Resolution, Stylus: 0.01 mils (0.00001 inch)

Stylus Tip Configuration: Conical with 0.00125 dia. Flat, or Conical with 25 micron Radius Tip, Consult Factory

Minimum Sample Spacing: 0.0005 inch
(0.010 default sample spacing, paper)
(0.001 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 (0.5 inch sample travel per second)
    Jog speed 1000, factory pre-set, between groups

Recommended Sample Size: 8.0 - 10.0 inch wide up to full web width

Maximum Sample Length: N/A (any length)

Calibration Feeler Stock: 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) 14 x 11 x 12 inch (35 x 28 x 25 cm)

Weight (Instrument Only) 38 lb (17 kg)