

# Model MX-1210 MicroGauge Off-Line Profiling Thickness Gauge For Paper and Plastic Film

*Full-Featured Automatic Caliper Gages for Film and Paper*



The Model MX-1210 MicroGauge Thickness Tester.

In the past, film and paper producers and converters have had the choice of caliper gages which were either value-priced thickness-only machines, or expensive computer-operated machines. Now you can have the best of both worlds in a single instrument. Oakland Instrument offers the MX Series, a simple to use stand-alone or computer operated tester, with optional Quality Control software for automatic calculation and graphical display of thickness profiles, statistics, and other information.

## The Oakland Advantage

### **Meets ASTM and TAPPI**

Meets specifications of ASTM D 374 and TAPPI T-411, Standard Test Methods for Thickness Testing of Plastic Film and Paper.

### **Advanced Technical Features in Each Model**

#### Easy, Error-Free Operation; Two Modes of Operation

Two modes of operation: Operate as a stand-alone, manual, or firmware-driven system, or Operate in Digital/Software mode using Oakland's Quality Control Thickness Software to automatically display profile graphics and calculate data statistics.

#### Offering Discrete Point Testing and Profiling Models

The MX-1210 includes a drive wheel to pull sheet samples for automatic thickness profiling. Other models available for discrete or point-to-point testing for spot-checking material thickness.

#### Affordable

Best of all, the MX Series is economically priced.

#### Expandable; Industry-Leading Software

Portable and expandable with optional software, ticket printers, statistical ticket printers, and computer systems. A computer is required for operation in the Digital/Software mode. Windows™ 95/98/NT/2000/XP-based advanced software for display/hard-copy reporting of statistical and graphical analysis of thickness data including high, low, average, standard deviation, and data count values.

### Oakland Instrument Corp.

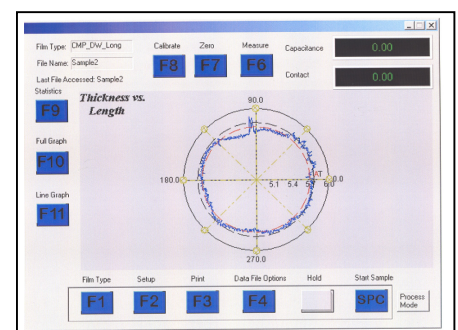
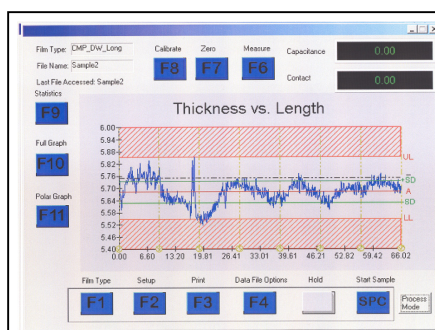
Oakland Instrument Corp. specializes in the design, manufacture and distribution of test, measurement and control systems for the plastics, packaging, rubber and paper industries.

### 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 MX-1210

Mode of operation:	Off-line testing / lab use, Automatic Profiling
Materials:	All sheet materials
Measurement Range:	0 - 50 mil, 0 - 100 mil, 0 - 200 mil, 0 - 300 mil (0 - 1270 micron, 0 - 2540 micron, 0 - 5080 micron, 0 - 7620 micron) other ranges available Please specify microns or mm when ordering metric units
Display (4-1/2 Digit) and Serial Output Range / Resolution	0 - 50 mil Measurement Range, 0 - 199.99 mils 0 - 100 mil Measurement Range, 0 - 1.9999 mm and 0 - 200 mil Measurement Range 0 - 1999.9 microns  0 - 300 mil Measurement Range, 0 - 1999.9 mils 0 - 19.999 mm 0 - 19999 microns
Resolution:	0.01 mil (0.1 micron) (0.0001 mm) for 50 mil Sensor 0.1 mil (1 micron) (0.001 mm) for 100 mil and up
Accuracy:	+/- 0.02 mils (+/- 0.50 micron) (+/- .0005 mm) (+/- 20 microinch)
Parallelism:	+/- 40 microinches or better (+/- 1.0 micron or better)
Foot Size:	0.188 inch dia. (4.3 mm dia.) (film) 0.628 inch dia. (15.9 mm dia.) (paper)
Foot Pressure:	4.0 - 8.0 psi (0.562 kg/cm <sup>2</sup> ) (film) 7.3 psi (0.513 kg/cm <sup>2</sup> ) (paper)
Cycle Rate:	up to 40 (film) per min. at 60 Hz 12 or 20 (paper)
Lowering Rate:	0.040 inch/sec. (1 mm/sec) (paper)
Dwell (at zero reading):	3 +/-1 seconds (paper)
Drive Increments:	0.2 to 4.0 inches in six steps (film) 0.5 to 10.0 cm in six steps (film) 1 to 6 inches (paper), other ranges available
Firmware Data Display:	Thickness Data plus High, Low, Average, Standard Deviation (1 sigma), Data Count
Serial Data Communications:	RS-232 for Computer Software Addition
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 10 inch (35 x 28 x 25 cm)
Dimensions (W x D x H, Shipping)	20 x 16 x 16 inch (51 x 41 x 41 cm)
Weight (Instrument Only)	38 lb (17 kg)
Weight (Shipping)	49 lb (22kg)

## Ordering Information

BROMX1210-1105  
Oakland Instrument Corp.  
7417 Bush Lake Road  
Minneapolis, Minnesota 55439 USA  
Tel & Fax (952) 835-4935  
Email: [sales@oaklandinstrument.com](mailto:sales@oaklandinstrument.com)