

Model MX-1225 Digital MicroGauge Off-Line Profiling Thickness Gauge For Paper and Plastic Film

Full-Featured Digital Caliper Gages for Film and Paper



*The Model MX-1225 Digital
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-om15, 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™ XP/W7/W10-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.

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

Mode of operation:

Off-line testing / lab use, Automatic Digital 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 – 1999.99 microns
0 – 300 mil Measurement Range,	0 – 1999.9 mils
	0 – 19.999 mm
	0 – 19999 microns

Resolution:

0.1 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) (± 0.0005 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/cm²) (film)
7.3 psi (0.513 kg/cm²) (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 Operation

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 (22 kg)

Ordering Information

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