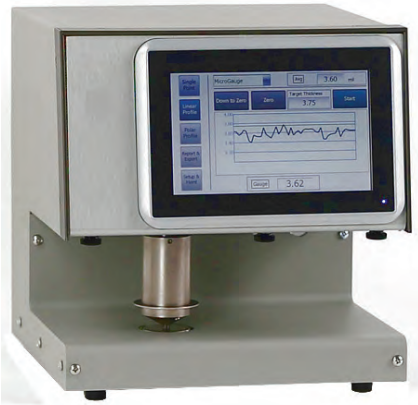


# Model MX-1100e Digital MicroGauge Off-Line Profiling Thickness Gauge for Paper, Plastic Film and Sheet

*Full-Featured Automatic Caliper Gauges for Film, Sheet and Paper*



Model MX-1100e Digital MicroGauge Thickness Tester displaying test results in linear plot.

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

### Conforms to ASTM, ISO and TAPPI

Conforms to specifications for ASTM D 374, ASTM D 6988, ISO 534, ISO 4593, TAPPI T-411, BS 2782-9K Method 630A and DIN 53370 Standard Test Methods for Thickness Testing of Plastic Film and Paper.

### Advanced Technical Features in Each Model

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

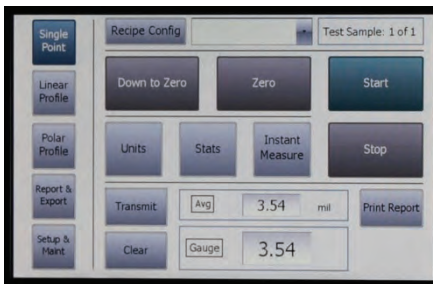
Three modes of operation: Operate as a stand-alone **touch screen** system, or Operate in Digital/Software mode using either a Non-Statistical Ticket Printer, or with 3<sup>rd</sup> Party Statistical Quality Control Software to display profile graphics and calculate data statistics. Includes digital push-button Zero operation.

#### Large 178 mm (7 inch) Touch Panel Display Offering Discrete Point Testing, Push-Button Zero, and On-Board Statistics

The MX-1100e offers discrete point testing with the measurement head automatically cycling up and down for point-to-point testing. Statistics can be displayed on the touch panel display including: High, Low, Average, Standard Deviation, Sample Count, plus Linear Profiles (below left) and Polar Profiles

#### Expandable; Industry-Leading Software

Portable and expandable with optional software (below right), ticket printers, statistical ticket printers, and computer systems. A ticket printer or computer is required for operation in the Digital/Software mode. Windows™ 7 or 10-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.



Large 178 mm (7 inch) Touch Panel Display includes push-button Zero, instant Measure, and display of Statistics including High, Low Average, Standard Deviation, Count plus Linear Profiles and Polar Profiles.

### Oakland Instrument Corp.

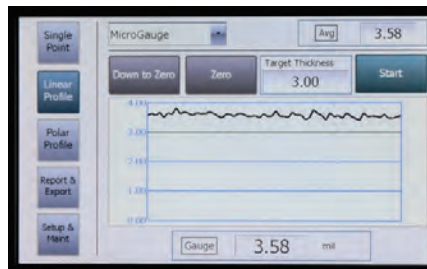
Oakland Instrument Corp. specializes in the design, manufacture and distribution of test, measurement and control systems for the plastics, flexible packaging, and paper industries.

### Customer-Driven

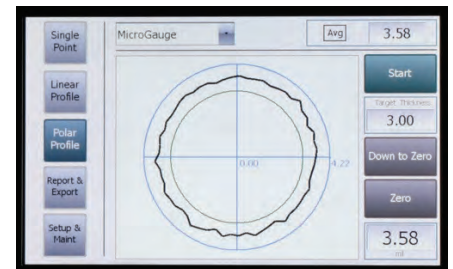
We team with our customers to help them solve their quality and process-control problems.

### Technology-Based

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



Linear Profile Display



Polar Profile Display

## Specifications

Mode of operation:

Materials:

Measurement Range:

Stroke (Probe retract height):

Display (178 mm/7 in. TFT-LCD Touch Screen) and Serial Output Range / Resolution

Resolution :

5.1 mm / 200 mils range

7.6 mm / 300 mils range

Accuracy:

Parallelism:

Foot Size (Contact Point):

Foot Pressure:

Cycle Rate:

Lowering Rate:

Dwell (at zero reading):

Drive Increments with OPTIONAL attachment:



Firmware Data Display:

Serial Data Communications:

Power Requirements:

Dimensions (W x D x H, Instrument Only)

Dimensions (W x D x H, Shipping)

Weight (Instrument Only)

Weight (Shipping)

## Model MX-1100e

Off-line testing / lab use, Automatic Digital Profiling

All sheet materials

0 – 1.27 mm (0 – 50 mils), 0 – 2.5 mm (0 – 100 mils),  
0 – 5 mm (0 – 200 mils), 0 – 7.5 mm (0 – 300 mils),  
other ranges available

*Specify microns or mm when ordering metric units*

Measurement Range plus 1.25 – 2.5 mm (50 – 100 mils)

0 – 1.27 mm / 50 mil Measurement Range 0 – 199.9 mils

0 – 2.5 mm / 100 mil Measurement Range 0 – 1.9999 mm

0 – 5 mm / 200 mil Measurement Range 0 – 1999.99 microns

0 – 7.5 mm / 300 mil Measurement Range 0 – 1999.9 mils

0 – 19.999 mm

0 – 19999 microns

0.25 micron / 0.01 mil / 0.00025 mm

2.5 micron / 0.1 mil / 0.0025 mm

± 0.50 micron / ± 0.02 mils / ± 0.0005 mm

± 1.0 micron / 0.04 mil or better

4.33 mm (0.188 inch) diameter for film

15.9 mm (0.628 inch) diameter for paper

Other sizes available up to 27.9 mm / 1.1 inch diameter

30 – 60 kPa/0.28 – 0.56 kg/cm<sup>2</sup>/4 - 8 psig for film

50 kPa/0.51 kg/cm<sup>2</sup>/7.3 psig for paper

Other settings available for non-wovens and other materials

20 per min (film) (40 as an option) at 60 Hz

20 per min (paper) (12 as an option)

1 mm / sec (0.040 inch/sec) for paper

3 ±1 seconds for paper

0.5 – 10 cm (0.2 – 4 inches) in six steps for film

2.5 – 15 cm (1 – 6 inches) in six steps for paper

Other ranges available, consult factory

Thickness Data plus High, Low, Average,  
Standard Deviation (1 sigma), Data Count

RS-232 for Ticket Printer, USB 2.0 for Computer

115 VAC, 60 Hz, 230 VAC, 50 Hz  
or consult factory for special requirements

25 x 25 x 28 cm (10 x 10 x 13 inch)

51 x 41 x 41 cm (20 x 16 x 16 inch)

9 kg (20 lb)

14 kg (30 lb)

(Due to continuous product improvement, all specifications are subject to change without notice.)

### Ordering Information



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