

Model CX-1000 Film Thickness Gauge Profiler

Gauge Profiling for Specialty and Commodity Film and Sheet Producers



Model CX-1000 Film Thickness Gauge Profiler. Patent Rights Reserved.

The model CX-1000 delivers more than you might expect from a film thickness gauge. Designed for off-line use in the laboratory or on the production floor. Its technology is based on the capacitance principle, which uses the plastic as a dielectric. As the film transport pulls your film sample through the sensor, minute thickness variations are measured and recorded, producing a continuous profile of unsurpassed accuracy and repeatability.

Improved Film Quality, Increased Profit Margins

The CX-1000 is a proven tool for more closely controlling nominal and uniform film thickness in your:

- Production die setup and adjustments;
- Research and development of new film products;
- Inspection of incoming film products;
- In-process checks to ensure on-spec product for secondary operations;
- Quality control reporting

By measuring the baseline and ongoing performance of your extrusion system, the CX-1000 can help improve film quality, resulting in fewer returns, less off-spec product and reduced scrap. The CX-1000 can help you lower resin costs too and increase your profit margins.

The Oakland Advantage

Conforms to ASTM

Conforms to specifications for ASTM D 8136 for Determining Plastic Film Thickness and Thickness Variability Using a Non-Contact Capacitance Thickness Gauge.

Unparalleled Stability

Its proprietary sensor and electronic design reduces gauge drift caused by temperature and humidity fluctuations to negligible levels.

Unsurpassed Accuracy and Repeatability

Our mechanical and electronic design delivers greater accuracy and repeatability of measurement results.

Easy, Error-Free Operation

Equipped with intuitive keypad and easy-to-read digital display, the CX-1000 is simple to operate, minimizing the chance of operator error.

Expandable

You can operate the CX-1000 as a portable, stand-alone gauge, or add accessories to increase its capabilities. Expand your system with a chart recorder for thickness profile output, a printer for tabulated data output or a computer and software for statistical and graphical analysis of thickness data – all available from Oakland Instrument Corp.

Affordable

Best of all, the CX-1000 is economically priced, resulting in fast payback of your investment.

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.

Significant Features

- Portable, stand-alone or expandable with optional features
- Intuitive keypad data entry and easy-to-read digital display
- Simple to calibrate
- English or metric capability
- Easy parameter setup including thickness units, film transport speed, length units and target
- Memory storage and recall of calibration/setup parameters
- Complete data display including average thickness, standard deviation, high/low measurement and position, range and sample length
- Gauge profile can be displayed in linear or polar plot formats with position of die bolts for easy reference
- Data reports customizable with product or customer number, time and date information
- Fully adjustable film-transport and film-guide mechanisms
- Advanced setup parameters including crease suppression, upper / lower limits and data display significant figures
- Advanced data display including high and low measurement / range / average expressed as percent/deviation / percent-deviation from target and average
- Analog output for chart recorder for display of film thickness profiles
- Parallel output for printer-generated data tables
- Serial (RS-232) output for computer collection of thickness data

Specifications

Model CX-1000

Mode of operation:	Off-line testing / lab use
Materials:	Nonmetallic plastic film
Measurement range:	0-300 microns (0-12 mils), other ranges available
Accuracy:	± 0.5% of material*
Repeatability:	± 0.5% of material
Resolution:	
Thickness	0.025 micron (0.001 mil) or 0.1% of material
Length of sample	5 microns (0.2 mil)
Sample Drive Speed	10 – 250 cm/min (4 – 98 in/min)
Distance between measurements:	0.067 – 1.67 mm (depending of sample drive speed)
Temperature stability:	0.1% per °C ambient
Power requirements:	115 VAC, 60 Hz, 230 VAC, 50 Hz, consult factory for special requirement
Dimensions (H x W x D)	21 cm x 51 cm x 51 cm (8 in x 20 in x 20 in)
Weight	21 kg (50 lb)

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

*Since the capacitance principle is an indirect thickness measurement, it is only as accurate as the calibration method used, i.e., micrometer or weight per unit area.

Options and Accessories

- Chart recorder for display of thickness profile information
- Printer for tabulated data output
- Computer system and software for statistical and graphical analysis of thickness data
- Standard or custom system designed to meet specific customer needs
- Oakland CX-1200 Quality Control software displays measurements in linear or polar plots, statistics and Fourier series analysis to identify impact of equally spaced contributors to gauge variation.
- Process Mode allows recall of recipes and allows multiple profiles to be displayed



Ordering Information



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