

Model CX-1000 Film Thickness Gauge

Gauge Profiling for Specialty and Commodity-Grade Film and Sheet Producers



The Model CX-1000 Film Thickness Gauge. 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 you improve film quality, resulting in fewer returns, less off-spec product and reduced scrap. And the CX-1000 can lower resin costs too, increasing your profit margins.

The Oakland Instrument Advantage

Oakland Instrument Corp.'s model CX-1000 offers numerous advantages:

Unparalleled Stability

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

Unsurpassed Accuracy and Repeatability

- Our mechanical and electronic design deliver 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 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 investment.

Oakland Instrument

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.

Significant Features

- Portable, standalone 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
- 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
- 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

Mode of Operation:	Off-line gauging/lab use
Materials:	Nonmetallic plastic film
Measurement Range:	0-12 mils (0-300, microns), other ranges available
Accuracy:	+/-0.5% of material*
Repeatability:	+/-0.5% of material
Resolution:	
Thickness	.001 mil or 0.1% of material
Linear	0.2 mm
Temperature Stability:	0.1% per °C ambient
Sample Rate:	20 msec
Power Requirements:	115 VAC, 60 Hz
	230 VAC, 50 Hz, or consult factory for special requirements
Dimensions (HxWxD):	8 in (21 cm) x 20 in (51 cm) x 20 in (51 cm)
Weight:	50 lb (21 kg)

(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.

* * Traceable to NIST Standards

Options and Accessories

- Model CX-1200 Quality Control Software for statistical and graphical analysis of thickness data
- Standard or custom systems designed to meet specific customer needs
- Upgrade to Model CX-1020 or Model CX-1025 to add our self-calibrating AutoCal™ feature and automatic (Model CX-1025b) or manually-adjustable (Model CX-1025a) parallelism on the contact sensor stand for even greater accuracy

Ordering Information

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