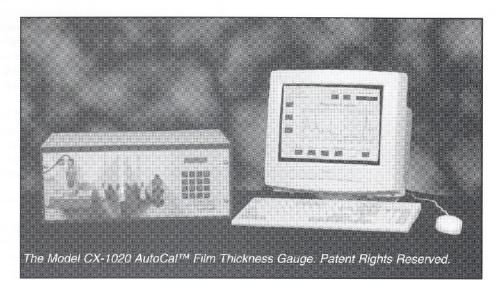


Model CX-1020 AutoCal™ Film Thickness Gauge

Self-Calibrating Gauge Profiling for Film and Sheet Producers



In the past, film producers have had the choice of off-line film thickness gauges with either contact sensors (providing absolute gauge values and measurement of all material types) or non-contact sensors (providing continuous profiles and superior resolution). Now you can have both in a single instrument. Oakland Instrument introduces the model CX-1020, an off-line film thickness gauge with dual sensors for automatic calibration of the non-contact sensor.

Improved Film Quality, Increased Profit Margins-

The CX-1020 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

The Oakland Instrument Advantage

Oakland Instrument Corp.'s model CX-1020 offers numerous advantages:

Traceable to NIST: Get the Advantages of Capacitance Thickness Measurement Without the Disadvantages

■ The first off-line capacitance-based film thickness gauge to be indirectly traceable to NIST standards in its automatic calibration mode.

Advanced Technical Features in Each Sensor

- Adjustable foot pressure allows operator to run soft materials, embossed materials and noncompressible materials effectively.
- Proprietary capacitance sensor reduces to negligible levels gauge drift caused by temperature and humidity fluctuations.
- Unique contact sensor does not require parallelism adjustment.
- Proprietary film transport allows automatic calibration of the non-contact sensor by the contact sensor.

Easy, Error-Free Operation: Two Modes of Operation

- Operate as a non-contact continuous profile system or
- Operate in AutoCalTM mode using the contact sensor to automatically calibrate the non-contact sensor.

Expandable; Industry-Leading Software

- Portable and expandable with optional chart recorders, printers and computer system. A
 computer is required for operation in the AutoCalTM mode.
 - Windows™ 95/98-based advanced software for display/hard-copy reporting of statistical and graphical analysis of thickness data.

Upgrade Your Model CX-1000 Film Thickness Gauge to Add the AutoCal™ Feature of the Model CX-1020

Oakland Instrument -

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.





Significant Features

- Can calibrate itself automatically in AutoCal™ mode
- Portable, stand-alone or expandable with optional features
- Intuitive keypad data entry and easy-to-read digital display
- 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 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

	Non-Contact Sensor	Contact Sensor
Mode of operation:	Off-line gauging/lab use	Off-line gauging/lab use
Materials:	Nonmetallic plastic film	All sheet materials
Measurement Range:	0-12 mils (0-300microns), other ranges available	0-12 mils (0-300 microns), other ranges available
Accuracy:	+/-0.5% of material*	+/-0.25% of material** +/-0.01 mil (additive)
Repeatability:	+/-0.5% of material	+/-0.01 mil
Resolution:		
Thickness	.001 mil or 0.1% of material	.01 mil
Linear	0.2 mm	6.4 mm,
		other ranges available
Contact Pressure:	N/A	10-100 grams,
		adjustable
Temperature Stability:	0.1% per °C ambient	0.1% per °C ambient
Sample Rate:	20 msec	N/A
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:	60 lb (26 kg)	

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

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 systems designed to meet specific customer needs

Ordering Information

Oakland Instrument Corp. Newport Plaza, Suite 221 303 21st Street St. Paul, Minnesota 55055 USA Tel & Fax (651) 459-1050

^{*}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