

CMI500 Series

The first temperature compensating gauges for measuring plated thru hole copper thickness

The **CMI500** Series units are hand held, battery operated instruments capable of measuring plated thru hole copper prior to and after etch. They work equally well on double-sided and multilayer boards, even through tin and tin/lead resist.

The **CMI500** Series has an exclusive CMI temperature compensation feature for in-process thickness measurement. That means no more scrap or costly rework.

Like all of our instruments, the **CMI500** Series is backed by the Oxford Instruments Group. We guarantee superior service before and after your order.



- Simple to use
- Complete Oxford Instruments service and support
- Accurate, right out of the bath

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CMI500

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CMI500 Series hand held thickness gauge

Automatically corrects measurements for temperature even when a board has just been lifted from the plating tank.

Factory calibrated... requires no standards. Instantaneous

measurements...no operator training necessary. Carrying case features a plastic window to permit gauge use without removal from case.

RS-232 port with adjustable baud rate permits download to computer

AC socket

Probe port

Easy to read 3 digit LCD display with floating decimal point

Reads in μm or mils at the push of a button

ON/OFF (Automatically switches OFF after 1 minute to conserve power)

Selects statistics for display on LCD

Automatic drift compensation for all built in calibrations

Low battery indication

Toggles between Continuous and Automatic modes (Continuous mode permits rapid scan before committing readings to stats storage)

Clears last reading or accumulated statistics

For input of PCB parameters

Sets Hi/Lo limits

High impact ABS case with sure-grip design



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CMI500 Series Specifications

Measurement technique: Eddy Current

Minimum hole size: 35 mils (899 μm)

Thickness range: 0.08 - 4.0 mils (2-102 μm)

Keypad: 10 numeric and 16 function keys

Display: 1/2" (12.7 mm) high LCD display

Readouts: Direct readings in mils (English) or μm (metric)

Units conversion: Automatic at the press of a button

Resolution: 0.01 mils (.25 μm)

Accuracy: $\pm .01$ mil (.25 μm) < 1 mil (25 μm)
 $\pm 5\%$ >1 mil (25 μm)

Memory capacity: 2000 stored readings

Calibration: Continuous self-calibration

Statistical display: Number of readings, Standard Deviation, Average, Cpk, High/Low. Histogram available when interfaced with a serial printer

Battery: 9V dry cell or optional rechargeable battery (Charger included)

Battery life continuous: 9V dry cell - 50 hrs. 9V rechargeable - 10 hrs

Weight: 9 ozs. (255 g) with battery

Dimensions: (W) 3 1/8" (79 mm)
(D) 1 3/16" (30 mm)
(H) 5 7/8" (149 mm)

Printer: Adjustable baud rate permits use with most serial port printers

Optional 40 column thermal paper printer available



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