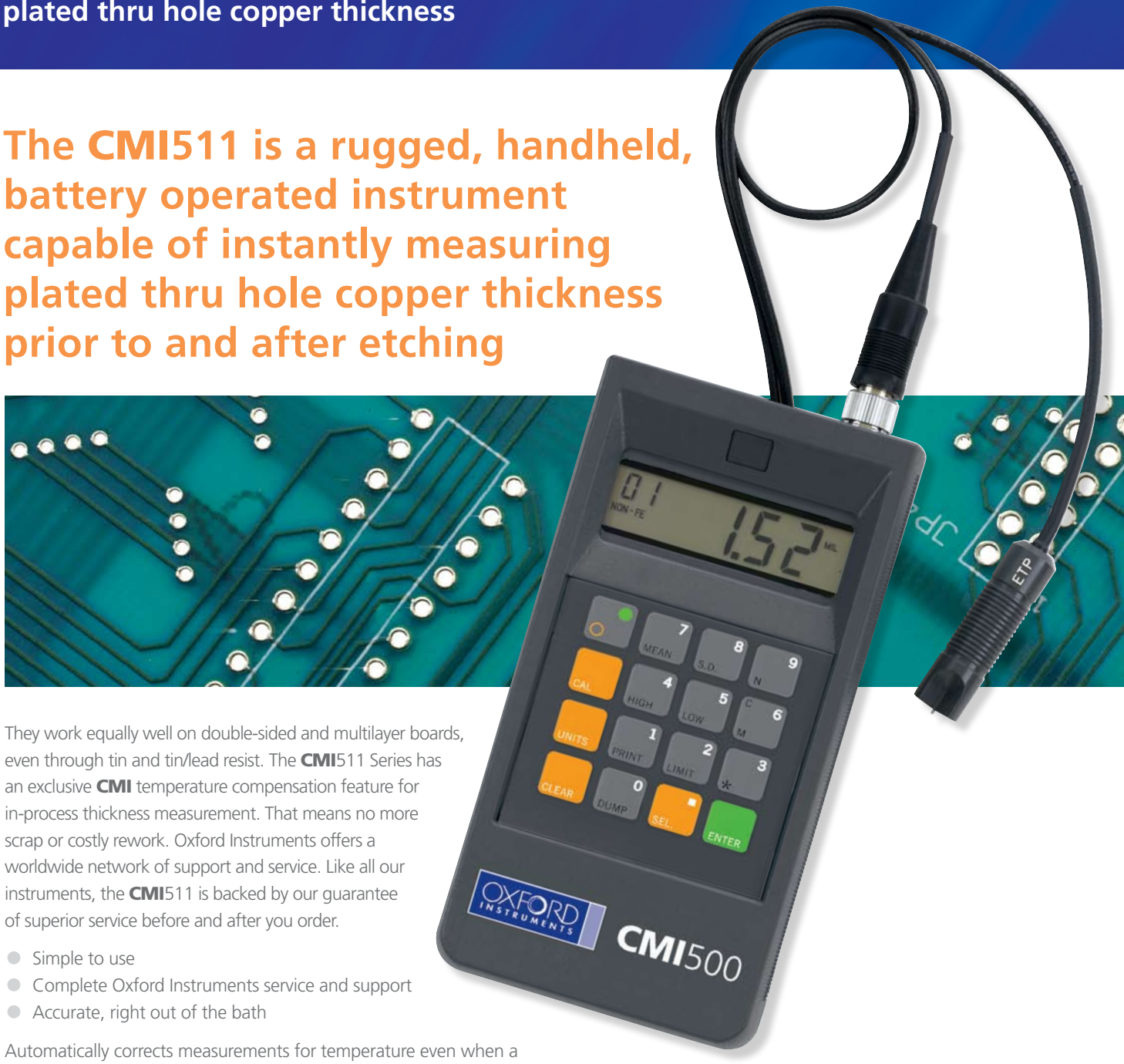
CMI511®

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

The CMI511 is a rugged, handheld, battery operated instrument capable of instantly measuring plated thru hole copper thickness prior to and after etching



They work equally well on double-sided and multilayer boards, even through tin and tin/lead resist. The **CMI**511 Series has an exclusive **CMI** temperature compensation feature for in-process thickness measurement. That means no more scrap or costly rework. Oxford Instruments offers a worldwide network of support and service. Like all our instruments, the **CMI**511 is backed by our guarantee of superior service before and after you order.

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

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.

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CMI511 Series hand held thickness gauge

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

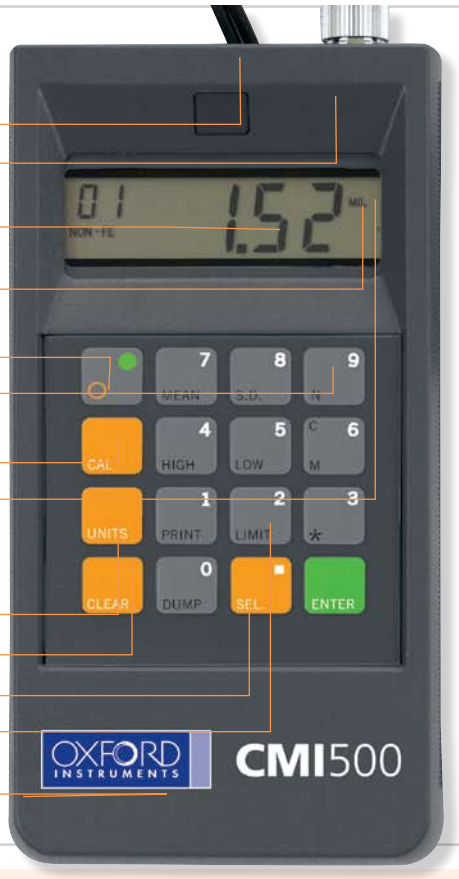
Toggles between Continuous and Automatic modes (Continuous mode permits rapid scan before committing readings to stats storage)

Clears last reading or accumulated statistics

For input of PCB parameters

Sets Hi/Lo limits

High impact ABS case with sure-grip design



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 (imperial) or µm (metric)

Units conversion: Automatic at the press of a button

Resolution: 0.01 mils (.25 µm)

Accuracy: ± .01 mil (.25 µm) < 1 mil (25 µm) ± 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) 9V dry cell - 50 hrs. 9V rechargeable - 10 hrs

Weight: 9 ozs. (255 g) with battery

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

Printer: Adjustable baud rate permits use with most serial port printers. Optional 40 column thermal paper printer available

visit **www.oxford-instruments.com** for more information

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