

## Measuring Cu thickness on PCB has never been easier

The most versatile hand-held gauge on the market today for in-process measurement of copper thickness in plated through-holes and copper laminate of unetched PCB

- measures smaller through-holes than any other device available
- measures not only in holes, but also on the surface
- applicable for single, double and multilayer boards
- measurements even under SnPb alloy coating
- only one-side access to the board is necessary
- calibrated with NIST traceable standards
- measurements on wet board
- automatic zeroing
- instant readings

Intromet ITM-52 - the only gauge you will ever need for copper thickness measurement

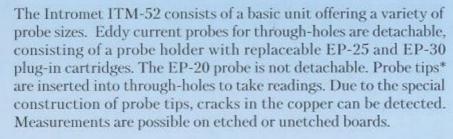
## **Intromet ITM-52**

## Eddy-current PCB copper thickness gauge

The hand-held Intromet ITM-52 is the enhanced successor to the Intromet ITM-51. It is designed for fast, precise, non-destructive measurement of copper thickness in plated through-holes and copper laminate of unetched printed-circuit boards (PCB).

The gauge is used for in-process control to maintain high-quality PCB production. It is battery powered and equipped with an internal charger.







The SP-100 probe, intended for measuring thickness of copper laminate of unetched PCB, uses a four-point electrical resistance measuring principle.

The ITM-52 is adjustable for thicknesses of PCB, electrical conductivity, measuring units (mm or mils), high and low limits, local time and alarm. It stores up to 15,000 readings and has IR-port downloading capabilities. Built-in functions include number of readings taken, min/max readings, mean value, standard deviation, range, Cp, Cpk and histogram.

| PCB thickness range                | 0,5 6 mm                    | (20 236 mils)                                 |
|------------------------------------|-----------------------------|---|
| Hole diameter range                | 0,45 2 mm                   | (17,7 78,7 mils)                              |
| Measuring range in the holes       | 2 100 μm                    | (0,08 3,9 mils)                               |
| Measuring range on copper laminate | 15 100 μm                   | (0,6 3,9 mils)                                |
| Resolution                         | 0,1 μm                      | (0,004 mils)                                  |
| Probe insertion                    | Manual or with probe guide  |   |
| Largest measuring board            | Unlimited                   |   |
| Power supply                       | 2 AA rechargeable batteries |   |
| Weight (with batteries)            | 250 g                       | (9 ozs.)                                      |
| Dimensions                         | 80x150x30 mm                | $(3^{1}/8" \times 5^{7}/8" \times 1^{3}/16")$ |
|                                    |                             |   |



## Available products include:

The ITM-52 basic unit, EP-20 probe, cartridge holder, EP-25 and EP-30 cartridges, reference standard RS-52-1 (for the EP-30), reference standard RS-52-2 (for the EP-25), reference standard and calibration unit RS-52-3 (for the EP-20), calibration unit for EP-25/EP-30, hand-held probe guide, SP-100 probe, SP-100 calibration foils, AC adapter, IR-port adapter, operating manual and plastic storage case.

\* US Pat. 5,600,240



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