



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 Intramet ITM-52 is the enhanced successor to the Intramet 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 Intramet ITM-52 consists of a basic unit offering a variety of probe sizes. Eddy current probes for through-holes are detachable, consisting of a probe holder with replaceable EP-25 and EP-30 plug-in cartridges. The EP-20 probe is not detachable. Probe tips* are inserted into through-holes to take readings. Due to the special construction of probe tips, cracks in the copper can be detected. Measurements are possible on etched or unetched boards.

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 μ m	(0,08 ... 3,9 mils)
Measuring range on copper laminate	15 ... 100 μ m	(0,6 ... 3,9 mils)
Resolution	0,1 μ m	(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 " x 5 ⁷ / ₈ " x 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



锦贤科技
GENESEA TECHNOLOGY CO., LTD.

深圳市锦贤科技有限公司

SHENZHEN GENESEA TECHNOLOGY CO., LTD.

电话: 0755-36838322 传真: 0755-28226934

网站: www.gene-sea.com

邮箱: genesea@126.com

Q Q: 510244122 32174454