

## Intromet ITM-525

Eddy-current PCB copper thickness gauge



### Measuring Cu thickness on PCB has never been easier

The most versatile hand-held gauge for in-process measurement of copper thickness in plated through-holes and copper foil on laminate

- measures smaller through-holes than others
- measures on single, double and multilayer PCB
- applicable for wet and unetched PCB
- measures on SnPb coated PCB
- needs only one-side access to PCB
- factory calibrated with NIST traceable standards
- instant readings and statistics
- USB connection

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The hand-held ITM-525 is the enhanced successor to the ITM-52 model designed for fast, precise, non-destructive measurement of copper thickness in plated through-holes and copper laminate of unetched printed-circuit boards (PCB). ITM-525 is used for in-process control to maintain high-quality PCB production. It is battery powered and equipped with an internal charger.



The ITM-525 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. Shortened probes EP-25S and EP-30S are available.

The CSP probe, intended for measuring thickness of copper laminate of unetched PCB, uses a four-point electrical resistance measuring principle and does not require copper surface cleaning. The ITM-525 is adjustable for thicknesses of PCB, electrical conductivity, measuring units ( $\mu$  or mils), local time, and alarm. It stores up to 15,000 readings and has USB-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	0.5 ... 6 mm
PCB holes	0.45 ... 2 mm
PCB dimensions	Unlimited
Measuring thickness in the holes	5 ... 60 $\mu$
Measuring thickness on copper laminate	15 ... 80 $\mu$
Resolution	0.1 $\mu$
Power supply	2 AA rechargeable batteries
Weight (without plastic case)	280 g
Dimensions	80x155x30 mm



## Available products include:

The ITM-525 basic unit, EP-20 probe (holes 0.45-0.6 mm), EP-25 (0.6-0.8 mm) and EP-30 (0.8-2.0 mm) cartridges, cartridge holder, reference standards, calibration units and foils, hand-held probe guide, CSP probe, AC adapter, USB cable, operating manual, plastic storage case.

\* US Pat. 5,600,240

