

## Fischer Technologies PHASCOPE PMP10

*Hand-held instrument for measuring coating thickness on PC Boards  
and electroplated surfaces*



The hand-held PHASCOPE PMP10 is ideally suited for quality control in the electroplating and printed circuit board (PCB) industries. The instrument employs the phase-sensitive eddy current method, allowing it to measure metal coatings on any substrate. A specially designed probe even enables measurement in PCB through-holes.







### Features:

- Robust handheld instrument for testing directly onsite
- Precise coating thickness measurement of nickel, zinc or copper on steel, even with rough surfaces, by means of phase-sensitive measurement techniques.
- Extensive evaluation and statistics functions
- Outlier control and tolerance monitoring options
- Subsequent processing of measured values is easy with Fischer Data-Center software
- Various languages to choose from
- Battery and / or continuous operation via plug-in charger (included)
- Storage of up to 20,000 readings
- Data transfer via RS232 interface

## Applications:

Using specialized probes optimized for specific measurement tasks, the PHASCOPE PMP10 is particularly suitable for the following:

- Measuring coating thickness of nickel on steel
- Measuring zinc or copper on steel – despite rough surfaces and complex surface geometries
- Measuring the thickness of non-ferrous metals on non-ferrous metals, given sufficient difference in conductivity, e.g. copper on brass or bronze.
- Measuring the thickness of non-ferrous metals on insulating substrates, such as copper layers on circuit boards.

Probe Style	Model #	Measurement Range	Applications
	ESL080B	5-100 $\mu\text{m}$	Measuring copper thickness in PCB through-holes with diameter range 0.8-2mm.
	ESL080V	5-80 $\mu\text{m}$	Measuring copper thickness in PCB through-holes, especially thick PC Boards
	ESD20Cu	1-270 $\mu\text{m}$	Measuring copper thickness on PC Boards.
	ESD20Zn	1-200 $\mu\text{m}$ (Cu/Fe) 2-200 $\mu\text{m}$ (Zn/Fe)	Measuring NF coatings on magnetic substrates, e.g. zinc/iron or copper/iron.  Irrespective of rough surfaces or protective lacquers.  NF coatings with high electrical conductivity on NF substrates with low conductivity, e.g. copper/brass.
	ESD20Ni	2-100 $\mu\text{m}$ Ni/Fe (60 kHz) or 1-50 $\mu\text{m}$ Ni/Fe (240 kHz)	Measuring Nickel layers on iron or ferromagnetic steel.  Irrespective of rough surfaces or protective lacquers.
	ESD2.4	1-150 $\mu\text{m}$	Measuring NF coatings on magnetic substrates, zinc/iron or copper/ iron.  Irrespective of rough surfaces or protective lacquers. Well suited for small parts due to small sensor.

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## Fischer Data-Center Software

Indispensable for the quick and easy transfer of data from the PHASCOPE PMP10 to a computer, Fischer Data-Center software is a powerful tool that also offers extensive graphic display and statistical analysis functions for quality control: statistical process control charts, cumulative frequency diagrams and Fischer's own FDD® (factory diagnosis diagram). The built-in report editor enables measurement data to be conveniently processed, archived and printed out as individual inspection reports.

## Standard Kit Includes:

- PHASCOPE PMP10 with accessories
- Fischer Data-Center Software

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