



PC-LEPTOSKOP 2050

Coating Thickness Measurement on PC Basis

KARL DEUTSCH

LEPTOSKOP 2050

Only PC-Probe, Software and PC



Connection of a PC-probe to the serial interface of a laptop. Using an adapter (art. no.: 2691.001) you may connect the probe to a USB interface as well.

Statistics		Number
Maximum	46,2 µm	80
Minimum	43,9 µm	
Mean	44,8 µm	
Std. Dev.	0,6 µm	
HiLim [%]	15,0	
LoLim [%]	23,8	
Cp	0,26	
Cpk	0,15	

Comprehensive statistics data



Application example: Laptop with PC software STATWIN 2002, PC micro probe and (optional) positioning device

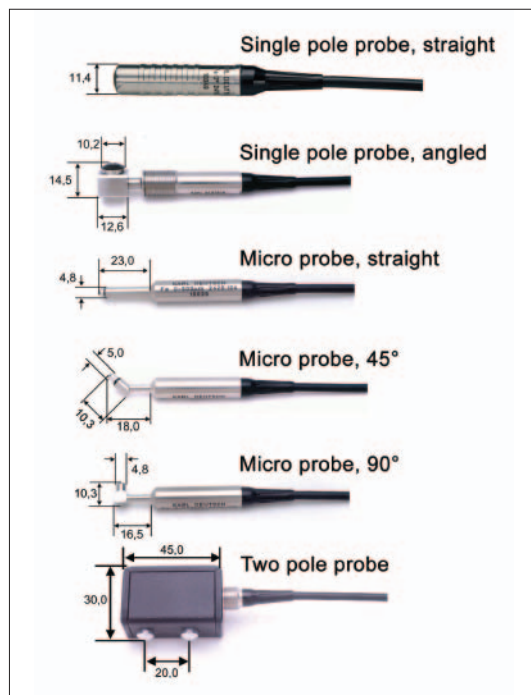


As well, the software STATWIN 2002 is able to readout the KARL DEUTSCH coating thickness gauges LEPTOSKOP 2042 and Pocket-LEPTOSKOP

The software STATWIN 2002 turns your PC into a coating thickness gauge.

Simply connect a suitable LEPTOSKOP PC-probe to the PC interface. After program start the screen shows a virtual coating thickness gauge you can operate by mouse or keyboard, just like a conventional instrument.

- Comprehensive statistics functions are available for evaluation and analysis of readings and measurement series.
- Almost any number of measurements can be memorized and managed. The capacity only depends on the memory space of the PC.
- No additional PC plug-in board is required.
- Multi-point calibration can be employed to achieve a high measurement accuracy.
- Direct graphical evaluation and documentation is possible. Printout via the PC printer.
- Measuring methods: Fe-measuring by means of the magnet-inductive method (EN ISO 2178), NFe-measuring according to the eddy current method (EN ISO 2360).



In addition to the standard probes high-resolution micro probes for small parts or difficult component geometries are available. Thick coatings become measured by special two pole probes.

Technical Data of the PC-LEPTOSKOP 2050

Operating software

2904.001: STATWIN 2002 (for Windows 9x/2000/XP/ME/NT4.0), the software is not suitable for Windows Vista/7 but may be operated in a virtual machine providing a compatible operating system; operating language: German/English selectable)

Probes

2050.101: Single pole probe, straight, measuring range 0 .. 1250 µm (Fe substrate)
 2050.111: Single pole probe, straight, measuring range 0 .. 3000 µm (Fe substrate)
 2050.201: Single pole probe, straight, measuring range 0 .. 1000 µm (NFe substrate)
 2050.102: Single pole probe, 90° angled, measuring range 0 .. 1250 µm (Fe substrate)
 2050.112: Single pole probe, 90° angled, measuring range 0 .. 3000 µm (Fe substrate)
 2050.103: Two pole probe, measuring range 0 .. 10,000 µm (Fe substrate)
 2050.104: Micro probe, straight, measuring range 0 .. 250 µm (Fe substrate)
 2050.204: Micro probe, straight, measuring range 0 .. 500 µm (NFe substrate)
 2050.105: Micro probe, 45° angled, measuring range 0 .. 250 µm (Fe substrate)
 2050.205: Micro probe, 45° angled, measuring range 0 .. 500 µm (NFe substrate)
 2050.106: Micro probe, 90° angled, measuring range 0 .. 250 µm (Fe substrate)
 2050.206: Micro probe, 90° angled, measuring range 0 .. 500 µm (NFe substrate)

Measurement uncertainty (after 1-point or 2-point calibration)

Single pole and micro probe: 1% ± 1 µm (0 .. 100 µm), 1 .. 3% ± 1 µm (>100 µm)
 Two pole probe: 1% ± 10 µm (0 .. 3000 µm), 1 .. 3% ± 10 µm (3000 .. 10,000 µm)

Accessories

2691.001: Adapter to connect the PC-probe to a PC with USB interface
 2815.001: Reference block Fe
 2815.002: Reference block NFe
 2715.002: Calibration foil set for the measuring range 0 .. 1250 µm

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