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Technical Defectoscope PCE-USC 30

PCE-USC 30 is a coating thickness gauge designed for the non-destructive testing (NDT) and non-destructive evaluation (NDE) of electrically conductive materials. This portable, handheld thickness meter detects surface defects and measures layer thicknesses using an eddy current. The PCE-USC 30 material tester also measures metal conductivity in accordance with the International Annealed Copper Standard (IACS).

The PCE-USC 30 thickness gauge has myriad applications including weld seam testing, crack detection, metallurgical and material sorting tests, quality assurance and control, aviation component testing of turbine blades, and pipeline and container testing in the chemical, oil and gas industries.

- Frequency range: 0.01 ... 16000 kHz
- Visually depicts surface defects on screen
- 4.3" full-color display (TFT)
- Ergonomic design
- Long battery life

Technical specifications

Frequency range:	0.01 ... 16000 kHz
Probe voltage supply:	0, 5, 1, 2, 4, 6 V
Signal phase shift:	0 ... 360 °
Sampling frequency:	0 ... 10 kHz
Duration of signal superimposition:	0 / 0.5 / 1/2/3/4 seconds
Alarm:	Circular, horizontal line, circle sector, cut off
Display:	Full-color display (TFT)
Display size:	4.3 "(diagonal)

Display resolution:	800 x 480 pixels
Amplification adjustment:	0 ... 100 dB
Filters:	Low-pass (1 ... 4000 Hz), high-pass (1 ... 4000 Hz), band, differential, average
Average interval between measurement errors:	4000 hours
Power supply:	12 V battery
Battery capacity:	4500 mAh
Continuous runtime per battery charge:	Approx. 8 hours
Operating temperature:	-20 ... +45 ° C
Weight:	Approx. 0.9 kg
Dimensions:	230 x 135 x 98 mm

Delivery Scope

- 1 x PCE-USC 30 coating thickness gauge / meter / material tester
- 1 x eddy current probe
- 1 x calibration standard
- 1 x probe cable
- 1 x computer connection cable
- 1 x conductivity probe
- 1 x battery
- 1 x battery charger
- 1 x carrying case
- 1 x user manual