

CONDUCTIVITY MEASUREMENT CONDUCTIVITY TESTER FOR NFE METALS

PCE-COM 20

With wide measuring range of up to 112 % IACS or 65 MS/m

The conductivity tester for measuring the electrical conductivity of non-ferrous metals such as aluminium or copper belongs to the group of NDT devices. The conductivity tester is used in non-destructive material testing. By means of the eddy current measuring principle which has proven for this application, the electrical conductivity of metallic materials can be determined quickly and precisely. With its

operating frequency of 60 kHz, the conductivity tester has a wide measuring range of 0.51 ... 112 % IACS and reaches an accuracy of +/-0.5 % at 20 °C, with a resolution of up to 0.01 % IACS.

ISO cal option

- » user-friendly hand-held meter
- » memory for up to 500 groups of measurements
- » durable internal rechargeable battery
- » lift-off and temperature compensation
- » adjustable backlight
- » for mobile use
- » automatic calibration
- » operating frequency of 60 kHz
- » incl. 3 calibration plates (titanium 1.03 % IACS, bronze 8.11 % IACS and copper 100 % IACS)



APPLICATION



TECHNICAL SPECIFICATIONS

Operating frequency	60 kHz, sine wave
Conductivity measuring range	0.51 % IACS ... 112 % IACS 0.3 MS/m ... 65 MS/m resistance 0.015388 ... 3.33333 Ω·mm ² /m
Conductivity resolution	0.01 % IACS (at <51 % IACS) 0.1 % IACS (at 51 % IACS ... 112 % IACS)
Conductivity accuracy	±0.5 % at +20 °C / 68 °F ±1 % at 0 ... +40 °C / 32 ... 104 °F
Lift-off effect	probe compensation 0.5 mm
Temperature measuring range	0 ... +50 °C / 32 ... 122 °F
Temperature accuracy	±0.5 °C
Automatic compensation	Automatic adjustment of conductivity result to the value at 20 °C / 68 °F
Operating conditions	0 ... 50 °C / 32 ... 122 °F, 0 ... 95 % RH
Display	LCD with backlight
Menu languages	English, German, Chinese (simplified)
Power supply	internal rechargeable battery
Probe	∅ 14 mm / ≈ 0.55 in
Memory	up to 500 groups of measurement values
Data interface	USB
Dimensions	220 x 95 x 35 mm / 8.66 x 3.74 x 1.38 in
Weight	415 g / 1 lb (with probe)

Optional accessories:

Calibration standard titanium	1.02 % IACS	Order code PCE-COM 20-CP1
Calibration standard brass	21.02 % IACS	Order code PCE-COM 20-CP9
Calibration standard magnesium	11.88 % IACS	Order code PCE-COM 20-CP11
Calibration standard magnesium	31.88 % IACS	Order code PCE-COM 20-CP3
Calibration standard copper	87.24 % IACS	Order code PCE-COM 20-CP10
Calibration standard copper	60.69 % IACS	Order code PCE-COM 20-CP8
Calibration standard copper	101.03 % IACS	Order code PCE-COM 20-CP13
Calibration standard bronze	8.47 % IACS	Order code PCE-COM 20-CP12
Calibration standard bronze	10.55 % IACS	Order code PCE-COM 20-CP5
Calibration standard bronze	15.24 % IACS	Order code PCE-COM 20-CP2
Calibration standard aluminium	15.29 % IACS	Order code PCE-COM 20-CP7
Calibration standard aluminium	32.07 % IACS	Order code PCE-COM 20-CP6
Calibration standard aluminium	57.41 % IACS	Order code PCE-COM 20-CP4
Calibration standard aluminium	41.21 % IACS	Order code PCE-COM 20-CP14



Subject to change without notice