

### Main Features:

- ✓ Direct readings in %IACS
- ✓ 10mm diameter (8mm optional) sensor
- ✓ Non-contact measurement possible
- ✓ Automatic temperature compensation
- ✓ 4 × AA cells provide ~100 hours operation
- ✓ Easy to operate
- ✓ Lift-off compensation and readout
- ✓ High resolution LCD display
- ✓ Battery status shown on display



Zappitec is introducing the model **12Z** Eddy Current Electrical Conductivity Meter for non-magnetic metals. The **12Z** uses the latest technology to provide an instrument which is user-friendly and practical to measure electrical conductivity in the field.

The instrument comes calibrated with traceable standards, providing reliable readings even when measuring rough surfaces.

### Applications:

- ✓ Alloy sorting
- ✓ Conductivity measurement on 8mm copper rod (with 7.5 mm sensor)
- ✓ Heat treatment verification
- ✓ Aerospace maintenance
- ✓ Metal purity evaluation
- ✓ Quality control of raw materials or finished parts
- ✓ Coating thickness evaluation



Lift Off compensation allows non-contact measurements and better measurements on curved surfaces. The approximate distance from the part being measured is shown in the display. Our optional 8mm sensor can measure directly on a section of 8mm copper rod providing quick and reliable conductivity data.



Our model 12Z uses advanced technology to provide high precision measurements with high reliability. LSI fully integrated analog-digital interfaces provide low noise fast readings. Internal sensor temperature measurement provides thermal compensation for unprecedented stability.



A high resolution display ensures clear visibility of conductivity values while still displaying additional information about the measurement. Calibration uses a "one point" calibration method to facilitate use. Certifiable standards are supplied with the unit.

### Specifications:

Measurement Range:	1.5 - 110 %IACS
Minimum surface	10mm diameter (std) or 7.5mm (optional)
Resolution:	0.1% IACS (65-110 %IACS) 0.05 %IACS (30-65 %IACS) 0.02%IACS (10-30 %IACS) 0.01%IACS (1.5-10 %IACS)
Lift-off compensation:	Up to 200µm
Frequency	60kHz
Power supply	4×AA alkaline batteries

