

Data Sheet- EddyCus® TF portable Series

P_T_1010_11



Highlights

- ▶ Real time and easy to use
- ▶ Emissivity conversion
- ▶ Wireless data transfer via Bluetooth
- ▶ Data center to manage and visualize
- ▶ Data from different portable systems
- ▶ Easy to use software

Parameters

- ▶ Sheet resistance (Ohm/sq)
- ▶ Metal layer thickness (nm, μm)
- ▶ Metal substrate thickness (μm)
- ▶ Defects
- ▶ Integrity assessment

Applications

- ▶ Architectural glass (LowE)
- ▶ Touch screens and flat monitors
- ▶ LED applications
- ▶ Smart-glass applications
- ▶ Transparent antistatic foils
- ▶ Photovoltaics
- ▶ De-icing and heating applications
- ▶ Batteries and fuel cells
- ▶ Packaging materials
- ▶ Printed electronics
- ▶ ITO / TCO / Nanowires
- ▶ Metal mesh and metal layers

Materials

- ▶ Metal films and meshes
- ▶ Conductive oxides
- ▶ Nanowire films
- ▶ CNT, Graphite
- ▶ Printed films
- ▶ Conductive polymers (PEDOT:PSS)
- ▶ Other conductive films and materials

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Made and Engineered in Germany

Innovation Award by
Free State of Saxony 2013
1st Place





Sheet resistance measurement technology	Eddy current sensor
Measurement mode	Realtime, constant distance measurement
Substrates	e.g. foils, glass, wafer, etc.
Substrate sizes	Flat samples > 150 x 150 mm (6 x 6 inch) Curved editions are available for several applications (windshields, ingots etc.)
Measurement spot / high sensitivity zone	40 mm diameter (1.6 inch)
Power	Lithium ion battery > 9 h
Sheet resistance range (four setups available)	Type very low: 0.001 - 0.1 Ohm / sq Type low: 0.04 - 0.1 Ohm / sq Type standard: 0.3 - 30 Ohm / sq Type high: 0.3 - 50 Ohm / sq Type very high: 0.3 - 100 Ohm / sq
Thickness measurement of thin films (e.g. copper)	5 nm - 500 µm (in accordance with sheet resistance)
Emissivity range	0.005 - 0.2
Accuracy (for plain solid surfaces, e.g. glass)	0.001 - 50 Ohm/sq: < 3% 50 - 100 Ohm/sq: < 5%
Display	2.8 inch colored touch screen
Device dimension (w/h/d) @ weight	7 x 3.5 x 1.9 inch / 178 x 87 x 48 mm @ 340g
Interfaces	Bluetooth (optional) + Data center

Software and Handling - EddyCus® TF portable Touch Control

- ▶ Portable
- ▶ Non-destructive contact measurement
- ▶ Real time and easy to use
- ▶ Data recording function
- ▶ Accurate and reliable
- ▶ Touch screen
- ▶ Customizable calibration
- ▶ Data aggregation in PC via Bluetooth

