

# EddyCus® portable 1010SR – Handheld Sheet Resistance Tester

P\_1010SR\_23



## Highlights

- ▶ Realtime 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

## Applications

- ▶ Architectural glass (LowE)
- ▶ Smart-glass applications
- ▶ Thin-film photovoltaics
- ▶ De-icing and heating applications
- ▶ Battery electrodes
- ▶ Packaging materials
- ▶ Touch panel sensors (TPS)
- ▶ Transparent and non-transparent electrodes

## Device Series

- ▶ Sheet resistance (Ohm/sq)
- ▶ Metal layer thickness (nm,  $\mu\text{m}$ )
- ▶ Metal substrate thickness ( $\mu\text{m}$ )
- ▶ Emissivity
- ▶ Conductivity / resistivity (mOhm cm)
- ▶ Defects and integrity assessment

## Materials


- ▶ Metal films
- ▶ Metal meshes
- ▶ Conductive oxides (ITO / AZO / FTO)
- ▶ Nanowire films
- ▶ CNT and graphite films
- ▶ Printed films
- ▶ Other conductive films and materials

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Engineered and Made in Germany 





Measurement technology	Eddy current sensor
Measurement mode	Realtime at constant distance / contact
Substrates	Glass, foils, etc.
Substrate sizes	Flat samples > 150 mm x 150 mm (6 inch x 6 inch) Curved editions are available for several applications (windshield, etc)
Measurement spot / high sensitivity zone	40 mm diameter (1.6 inch)
Power	Lithium ion battery up to 20 h
Sheet resistance range (five setups available)	Type very low: 0.001 – 0.01 Ohm/sq Type low: 0.01 – 1 Ohm/sq Type higher low: 1 – 10 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)	Additional feature, available range is 5 nm – 500 µm (in accordance with sheet resistance)
Emissivity range	Additional feature, available range is 0.003 – 0.5
Accuracy (for planar solid surfaces, e.g. glass)	0.001 – 50 Ohm/sq: < 3% 50 – 100 Ohm/sq: < 5%
Display	2.8 inch colored touch screen
Device dimensions (w/h/d) @ weight	3.5" x 7" x 1.9" / 87 mm x 178 mm x 48 mm @ 340g
Interfaces	Bluetooth (optional) + data center

## Device Control and Software

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

