

## EddyCus® portable PS – Handheld Sheet Resistance Tester

P\_PSSR\_22



### Highlights

- ▶ Realtime and easy to use
- ▶ Emissivity conversion
- ▶ Wireless data transfer via Bluetooth
- ▶ Easy to use software

### 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

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### 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

### Materials

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

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: > 10 mm x 10 mm Curved samples: curvature > 50 mm
Measurement spot / high sensitivity zone	40 mm diameter (1.6 inch)
Power	Lithium ion battery up to 8 h
Sheet resistance range	Type low: 0.001 – 0.01 Ohm/sq Type standard: 0.01 – 1 Ohm/sq Type high: 1 – 10 Ohm/sq
Thickness measurement of thin films (e.g. copper)	Additional feature, available range is 2 nm – 20 µm (in accordance with sheet resistance)
Emissivity range	Additional feature, available range is 0.003 – 0.1
Accuracy (for planar solid surfaces, e.g. glass)	< 3 %
Repeatability (for planar solid surfaces, e.g. glass)	< 1.5 %
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 @ 340 g
Interfaces	Bluetooth (optional)

## 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

