EddyCus® portable 1010E – Handheld Emissivity Tester

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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

Device Series

- Emissivity
- Sheet resistance (Ohm/sq)
- Metal layer thickness (nm, µm)
- Metal substrate thickness (µm)
- Conductivity / resistivity (mOhm·cm)
- Defect and integrity assessment

Applications

- Architectural glass (LowE)
- Automotive glass (LowE)
- Transportation glass (LowE)
- Mobile friendly glass (LowE)
- Bird friendly glass (LowE)
- Window films
- Heat treated / tempered glass

Materials

- Single-Silver coatings
- Double-Silver coatings
- Triple-Silver coatings
- Quad-Silver coatings
- Other emissivity coatings

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Engineered and Made in Germany

EddyCus® portable 1010E – Handheld Emissivity Tester

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 (windshields, etc.)
Measurement spot / high sensitivity zone	40 mm diameter (1.6 inch)
Power	Lithium ion battery up to 20 h
Emissivity range	0.003 – 0.5
Sheet resistance range	Additional feature, 0.3 – 100 Ohm/sq
Thickness measurement of thin films (e.g. silver)	Additional feature, 5 nm – 50 nm (in accordance with sheet resistance)
Accuracy (for planar solid surfaces, e.g. glass)	< 3%
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

Last Updated: Feb 2023. Content is subject to change.