EddyCus® TF lab 4040SR – Sheet Resistance Tester

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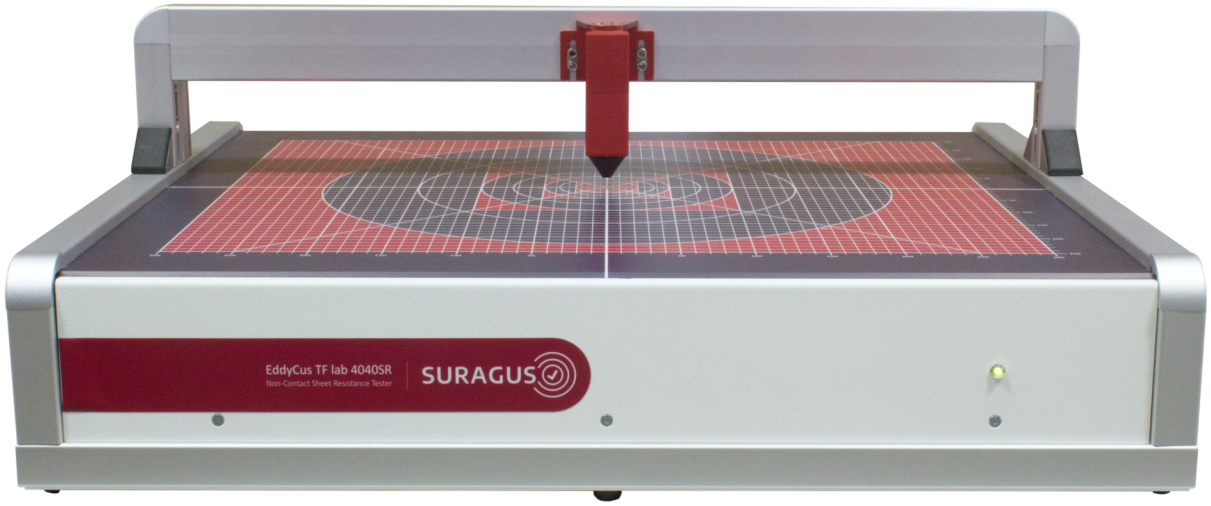

Highlights

- Contact-free and realtime
- Accurate single-point measurement
- Characterization of multilayer materials upon request
- Manual mapping of sheet resistance guided by easy-to-handle software

Parameters

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

Applications

- Architectural glass (LowE)
- Touch screens and flat monitors
- OLED and LED applications
- Smart-glass applications
- Transparent antistatic foils
- Photovoltaics
- Semiconductors
- De-icing and heating applications
- Batteries and fuel cells
- Packaging materials

Materials

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

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Made and Engineered in Germany

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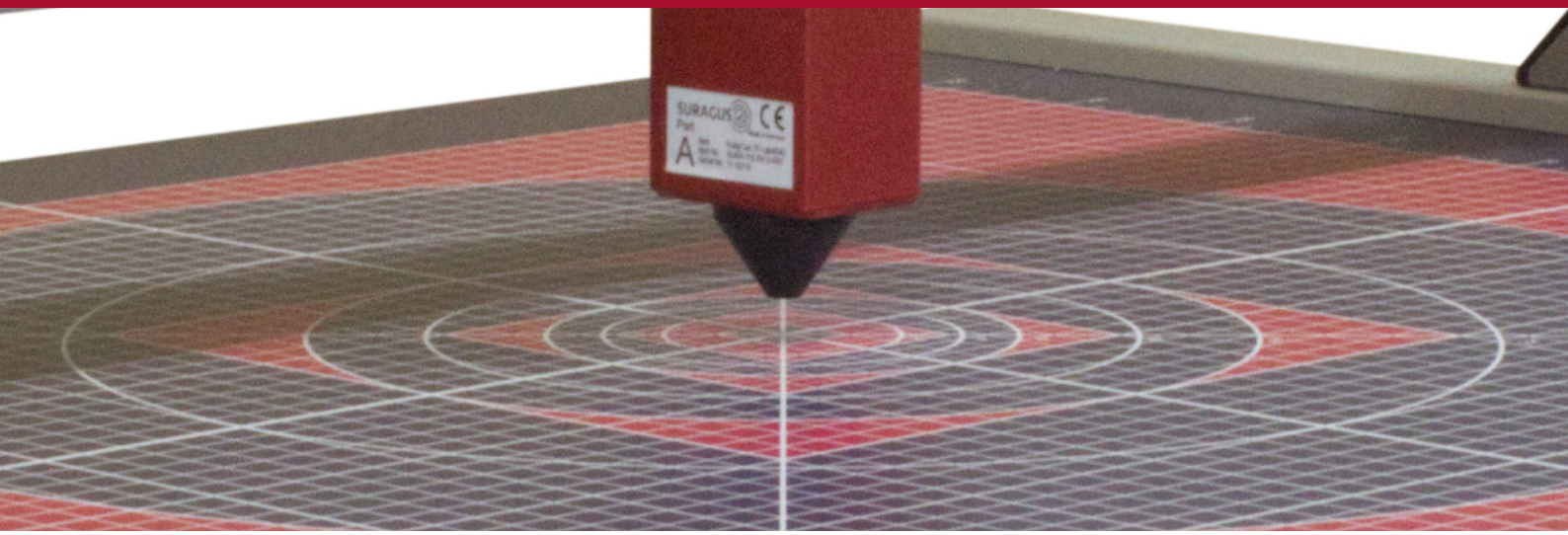
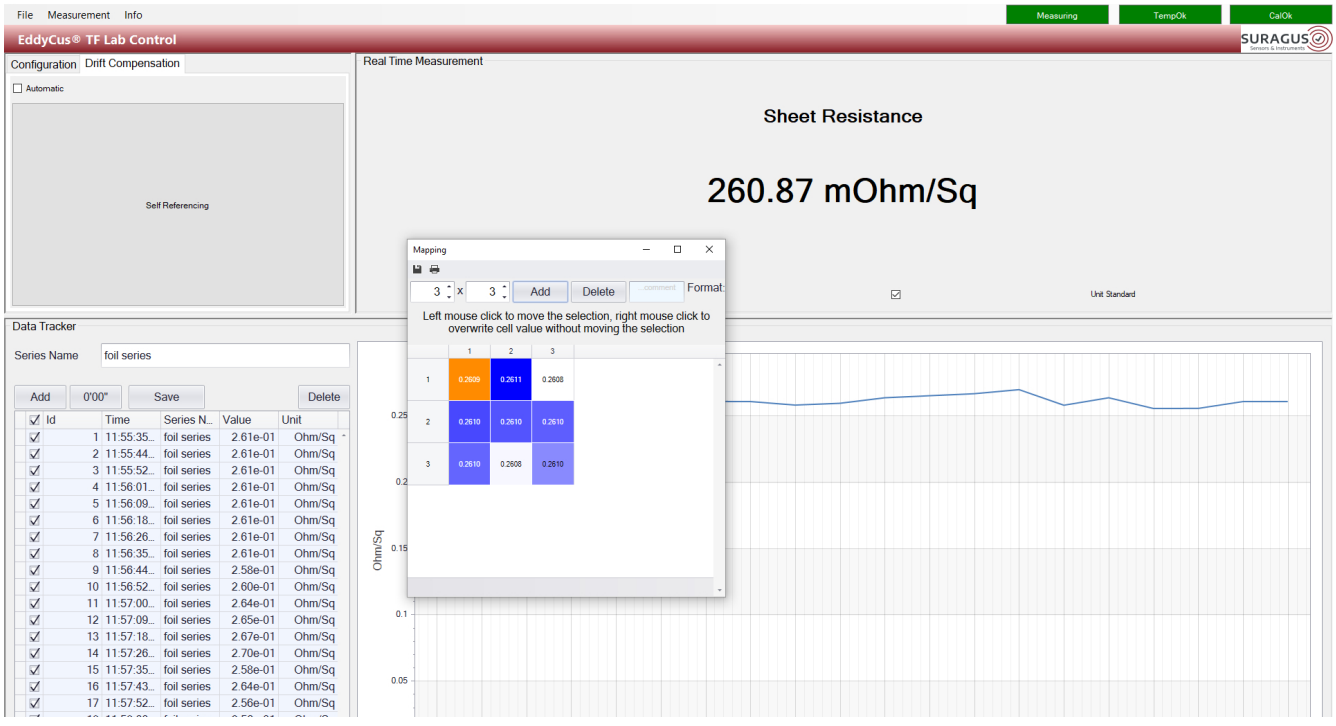


Sheet resistance measurement technology	Non-contact eddy current sensor
Substrates	e.g. foils, glass, wafer, etc.
Substrate area	29.5“ x 25.6“ / 750 mm x 650 mm (for 400 mm x 400 mm samples)
Max. sample thickness/ sensor gap	1 / 2 / 5 / 10 / 25 mm (defined by the thickest sample)
Sheet resistance range accuracy can be optimized over sheet resistance decade within a customer specified range	Low 0.0001 – 0.1 Ohm / sq; 1 to 5 % accuracy Standard 0.01 – 1,000 Ohm / sq; 1 to 5 % accuracy High 300 – 200,000 Ohm / sq; 3 to 7 % accuracy
Thickness measurement of thin films (e.g. copper)	2 nm – 2 mm (in accordance with sheet resistance)
Device dimensions (w/h/d) / weight	30“ x 12“ x 26“ / 760 mm x 310 mm x 660 mm / 20 kg
Further available features	Sheet resistance measurement Metal thickness tester Anisotropy sensor Optical transmittance, reflectance, haze

Device Control and Software