EddyCus® lab 2020SR – Sheet Resistance Tester

P_2020SR_26

Highlights

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

Device Series

- Metal layer thickness (nm, µm)
- Sheet resistance (Ohm/sq)
- Emissivity
- Conductivity / resistivity (mOhm·cm)
- Electrical anisotropy (%)
- Weight (g/m²) and drying status (%)
- Permeability (H/m) Beta

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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Engineered and Made in Germany

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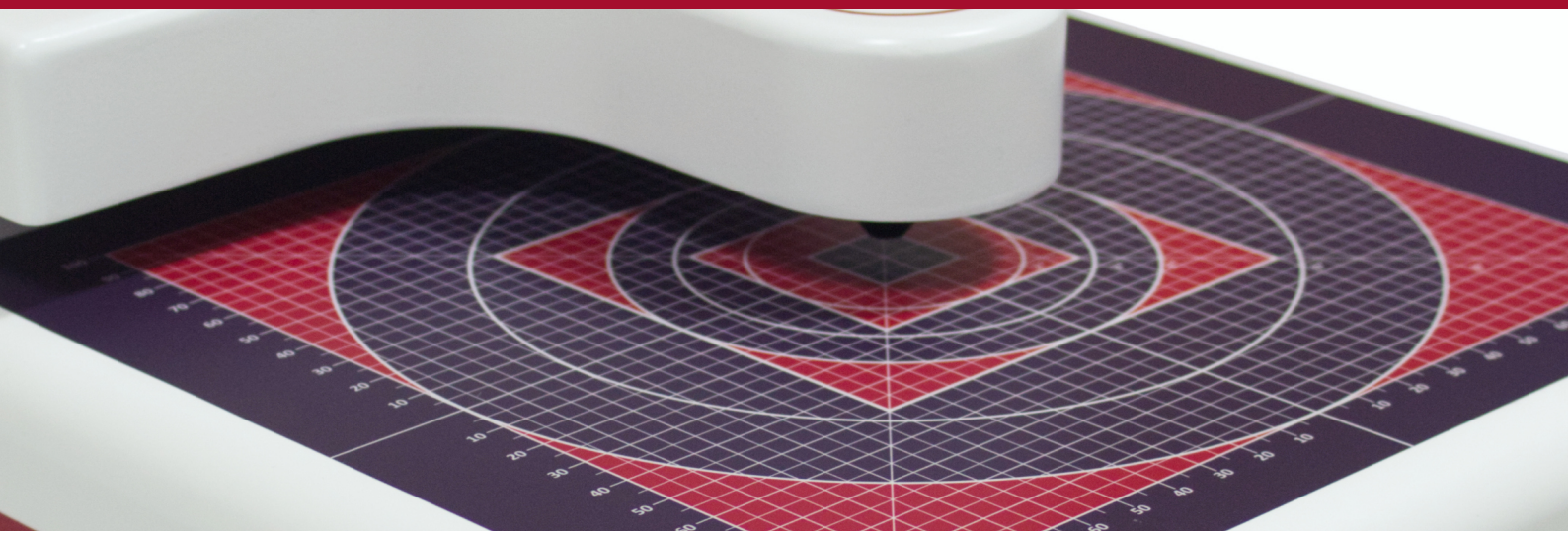

Measurement technology	Non-contact eddy current sensor
Substrates	Foils, glass, wafer, etc.
Substrate area	8 inch / 204 mm x 204 mm (open on three sides)
Max. sample thickness / sensor gap	4 / 10 / 14 / 20 mm (defined by the thickest sample)
Thickness measurement range of metal films (e.g. copper)	2 nm – 2 mm (in accordance with sheet resistance)
Device dimensions (w/h/d) / weight	11.4” x 5.5” x 17.5” / 290 mm x 140 mm x 445 mm / 10 kg
Further available features	Metal layer thickness, resistivity, emissivity conversion

	VLSR	LSR	MSR	HSR
	6 decades are measurable by one sensor, but with slightly affected accuracy			
Range [Ohm/sq]	0.00005 – 0.3	0.001 – 100	0.001 – 3,000	100 – 300,000
Accuracy / Bias	± 1 – 3%		± 1 – 3%	± 2 – 5%
Repeatability (2σ)	< 0.3 – 1%		< 0.3 – 3%	< 0.5 – 2%

VLSR – Very Low Sheet Resistance, LSR – Low Sheet Resistance, MSR – Medium Sheet Resistance, HSR – High Sheet Resistance

Device Control and Software