SURAGUS
Sensors & Instruments

EddyCus® TF map 2530SR – Sheet Resistance Imaging Device

P_T_2530SR_23

Highlights

- Contact-free imaging
- High speed (10,000 points in 5 min)
- Repeatable and accurate
- High resolution (9 to 90,000 points)
- Mapping of encapsulated layers
- Homogeneity and defect imaging

Processes

- Deposition (PVD, CVD, ALD, plating)
- Layer and material modification (implantation, doping, annealing)
- Layer removal (CMP, etching, scribing)

Applications

- Semiconductors
- Photovoltaics
- Touch panel sensors
- Displays and lighting
- Batteries, capacitors, fuel cells
- De-icing and heating
- Smart-glass and LowE
- WLP, PLP, PCB
- Packaging materials
- Antistatic

Materials

- Semiconductors (Si, SiC, GaAs ...)
- Metals
- Graphene, CNT, graphite
- Conductive oxides and nitrides
- Mesh and nanowire films
- Conductive inks, polymers (PEDOT)
- Other conductive films

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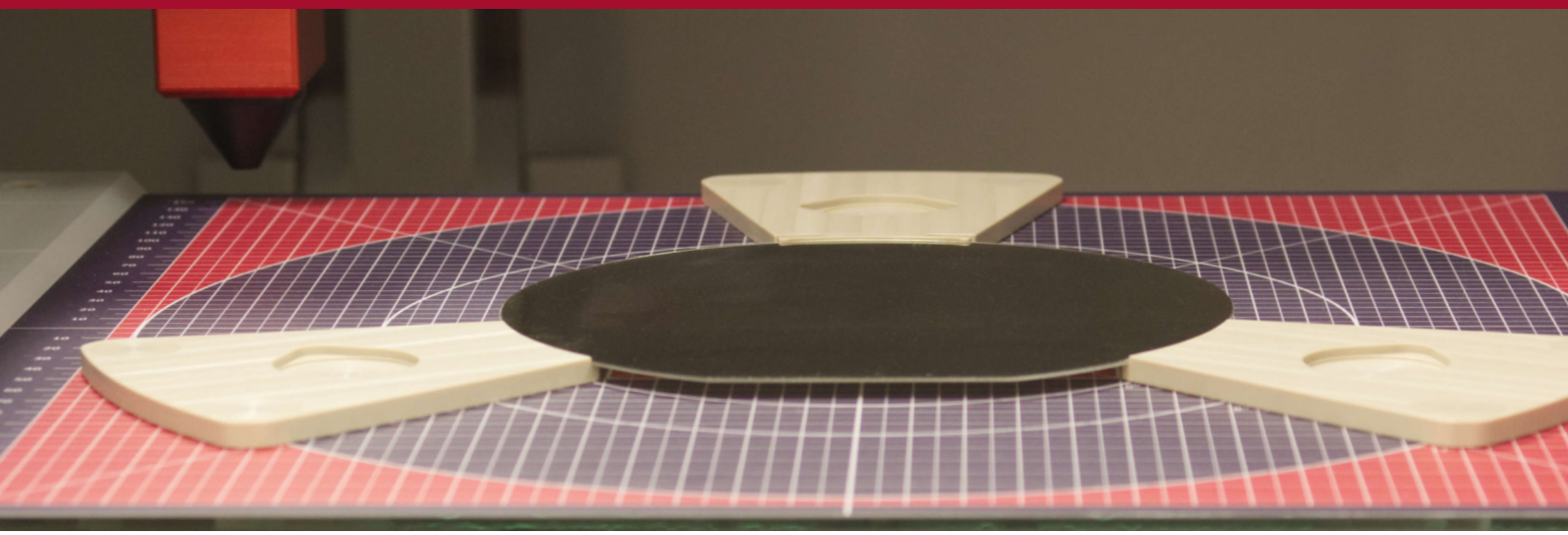
Engineered and Made in Germany

TÜV SÜD ISO 9001

WINNER OF 2016 INNOVATION AWARD

EddyCus® TF map 2530SR – Sheet Resistance Imaging Device



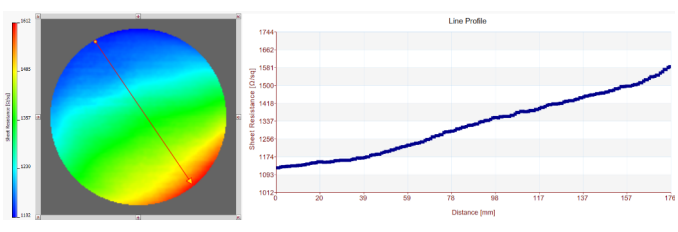
Measurement technology	Non-contact eddy current sensor
Substrates	Wafer, glass, foils etc.
Max. scanning area	12 inch / 300 mm x 300 mm (larger upon request)
Edge effect correction / exclusion	2 – 10 mm (depending on size, measurement range and requirements)
Max. sample thickness / sensor gap	3 / 5 / 10 / 25 mm (defined by the thickest sample)
Thickness measurement of metal films (e.g. aluminum, copper)	2 nm – 2 mm (in accordance with sheet resistance)
Scanning pitch (X and Y)	1 / 2.5 / 5 / 10 / 25 mm (other upon request)
Measurement points per time (square shaped samples)	100 measurement points in 0.5 minutes 10,000 measurement points in 5 minutes
Scanning time	8 inch / 200 mm x 200 mm in 1 to 10 minutes (1 – 10 mm pitch) 12 inch / 300 mm x 300 mm in 2 to 6 minutes (2.5 – 25 mm pitch)
Device dimensions (w/h/d) / weight	31.5” x 19.1” x 33.5” / 785 mm x 486 mm x 850 mm / 90 kg

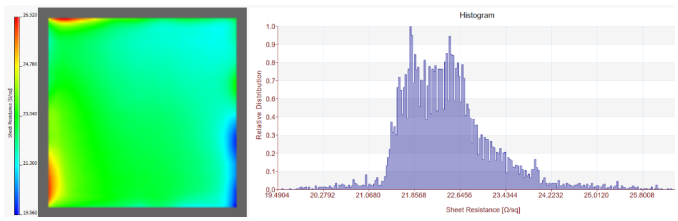
	VLSR	LSR	MSR	HSR	VHSR
	6 decades are measurable by one sensor, but with slightly affected accuracy				
Range [Ohm/sq]	0.0001 – 0.1	0.01 – 10	0.1 – 100	10 – 2,000	1,000 – 200,000
Accuracy / Bias	± 1%			± 1 – 3%	± 3 – 5%
Repeatability (2σ)	< 0.5%			< 1%	< 0.5%

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

Device Control and Software

- Pre-defined measurement and product recipes (sizes, pitches, thresholds)
- Line scan, histogram and area analysis
- Black and colored image coding
- Csv & pdf export
- SPC summary and export
- 3 user levels
- Material database for parameter conversion
- Edge effect compensation
- Storage and import of data
- Export of data sets (e.g. to EddyEva, MS Excel, Origin)





Last Updated: Nov 2021. Content is subject to change.