

Non-Contact Metrology Solutions

S_TCM_10



About Us

SURAGUS GmbH is a German metrology specialist developing and manufacturing non-contact material testing solutions for thin film materials. Our EddyCus® systems are installed at customer sites on six continents and are serviced and distributed through a worldwide network of sales and service partners. We serve numerous industries applying thin films in a wide variety of processes.

Technology

SURAGUS utilizes a unique high-frequency, wide range eddy current technology. This wide range, high frequency combination enables rapid testing of both very low and highly conductive materials. Our EddyCus® measurement systems (Eddy Current Solutions) excel with high sample rates and in non-contact setups, and come with several industrial interfaces and user-friendly software.

Portfolio

SURAGUS' portfolio comprises hand-held devices, table-sized benchtop testing solutions, robot based systems and standard & customized inline solutions. Standard and customized sensors are used to tailor to a large number of non-contact testing tasks including the measurement of physical parameters and defect detection.

Values

SURAGUS is a customer-focused and technology-driven company. A long-term and result-driven mutual cooperation between our customers and partners is of the highest importance to us. Our interdisciplinary R&D team transforms latest advancements in microelectronics and sensor manufacturing into novel testing solutions for our customers.

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Made and Engineered in Germany

Innovation Award by
Free State of Saxony 2013
1st Place



Process Monitoring

- ▶ Deposition (PVD, CVD, etc.)
- ▶ Etching / Polishing
- ▶ Annealing / Tempering
- ▶ Doping
- ▶ Plating (galvanic, electroless)
- ▶ (De-)oxidation

Measurements

- ▶ Sheet Resistance [Ohm/sq]
- ▶ Metal Layer Thickness [nm, μm, mil]
- ▶ Optical Transmittance/Density
- ▶ Reflection & Haze

Benefits

- ▶ Non-Contact
- ▶ High Sample Rate
- ▶ Image Solution

Setups

- ▶ High Sample Rates
- ▶ Measurement of Encapsulated Layers

Solutions

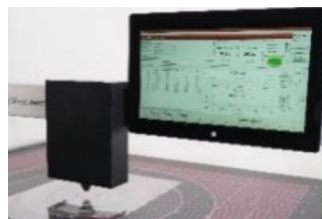
Portable

EddyCus TF portable



Single Point

EddyCus TF lab Series



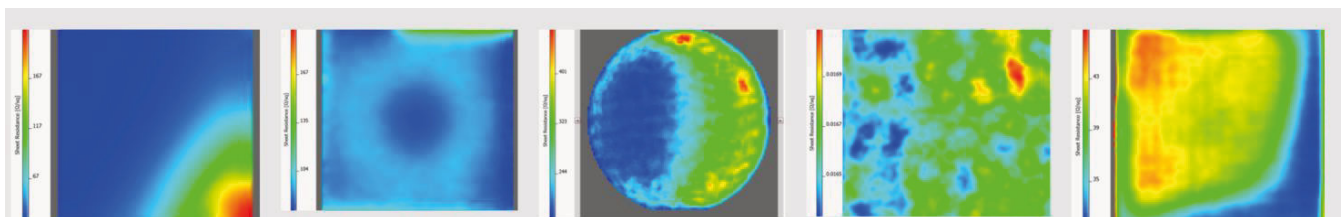
Imaging

EddyCus TF map Series



Inline

EddyCus TF Inline Series



50 x 50 mm metal film with strong deposition profile

100 x 100 mm AZO with donut and side effect

4 inch graphene on quartz wafer with selective doping

150 x 150 mm Graphite plate

Poly-Si-Solar wafer 156 x 156 with different doping profile