

Non-Contact Metrology Solutions

S_PE_10



About Us

SURAGUS GmbH is a German metrology specialist developing and manufacturing non-contact material testing solutions for thin materials and films. Our EddyCus Systems are present on six continents and serviced and distributed through a worldwide network of sales and service partners to a wide range of customer industries applying thin-films in various applications.

Technology

SURAGUS utilizes a unique high-frequency and wide frequency range eddy current technology. The flexibility in range combined with ability to apply high frequencies allows the fast testing of both, very low and well conductive, materials. Our EddyCus® measurement systems (Eddy Current Solutions) excel with high sample rates and non-contact setups, which come with several industrial interfaces and with user-friendly software.

Portfolio

SURAGUS portfolio comprises portable hand-held devices, table-sized benchtop testing solutions, robot based systems and standard and customized inline-solutions. Standard and customized sensors are applied to solve a larger 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 and fair cooperation with our customers and partners is most important 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



Applications

- ▶ Deposition Processes (*PVD, CVD, printing, curtain, slot die, spraying, etc.*)
- ▶ Annealing / Tempering Processes
- ▶ Doping Processes
- ▶ Drying
- ▶ Layer Modification (removal etc.)

Measurements

- ▶ Sheet Resistance [Ohm/sq]
- ▶ Metal Layer Thickness [nm, μm]
- ▶ Optical Transmittance / Reflection
- ▶ Drying Status

Benefits

- ▶ Non-Contact
- ▶ Very Accurate
- ▶ High Speed

Solutions

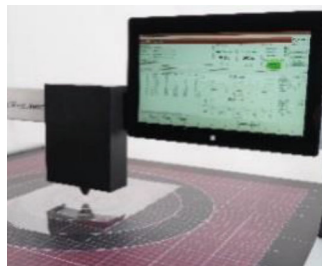
Portable

EddyCus TF portable



Single Point

EddyCus TF lab Series



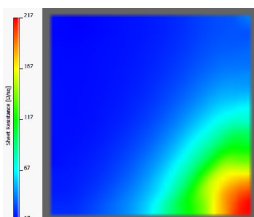
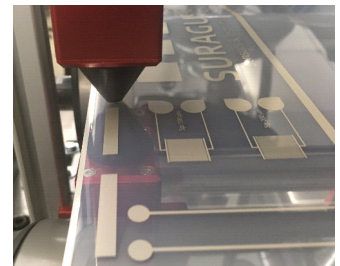
Imaging

EddyCus TF map Series

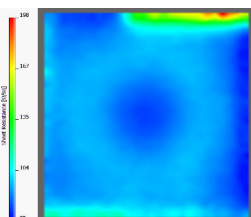


Inline

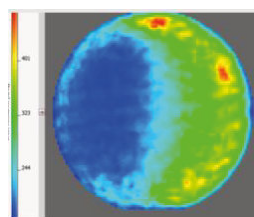
EddyCus TF Inline Series



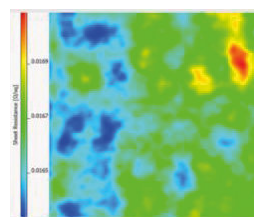
50 x 50 mm metal film with strong deposition profile



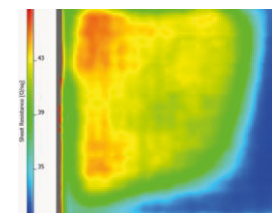
100 x 100 mm AZO with donut and side effect



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