EddyCus® TF inline MT – Metal Thickness Monitoring
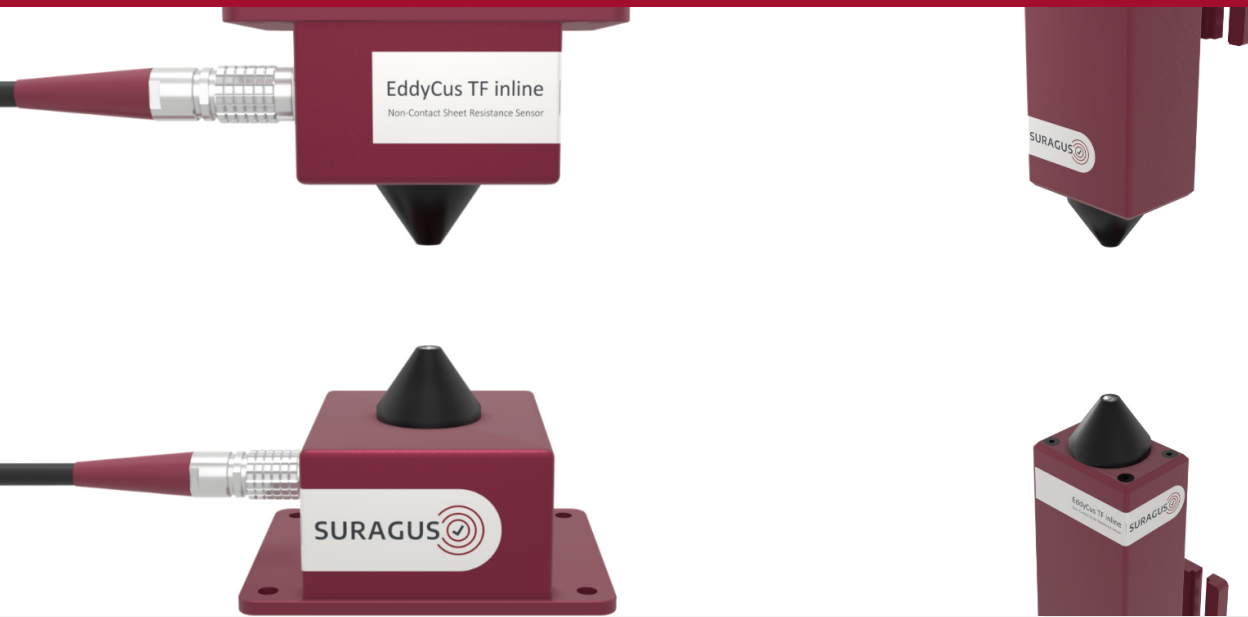
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Highlights

▸ Contact-free and realtime

▸ Accurate measurement

▸ High degree of vasatility and flexibility

  ▸ In- and ex-vacuo solutions

  ▸ Fixed sensor and traverse solutions

  ▸ Single-lane and multi-lane solutions

▸ High sample rate up to 1,000 measurements per second

Sensor Series

▸ Metal layer thickness (nm, μm)

▸ Metal substrate thickness (μm)

▸ Sheet resistance (Ohm/sq)

▸ Conductivity / resistivity (mOhm cm)

▸ Electrical anisotropy (%)

▸ Weight (g/m²) and drying status (%)

▸ Permeability (H/m) *Beta*

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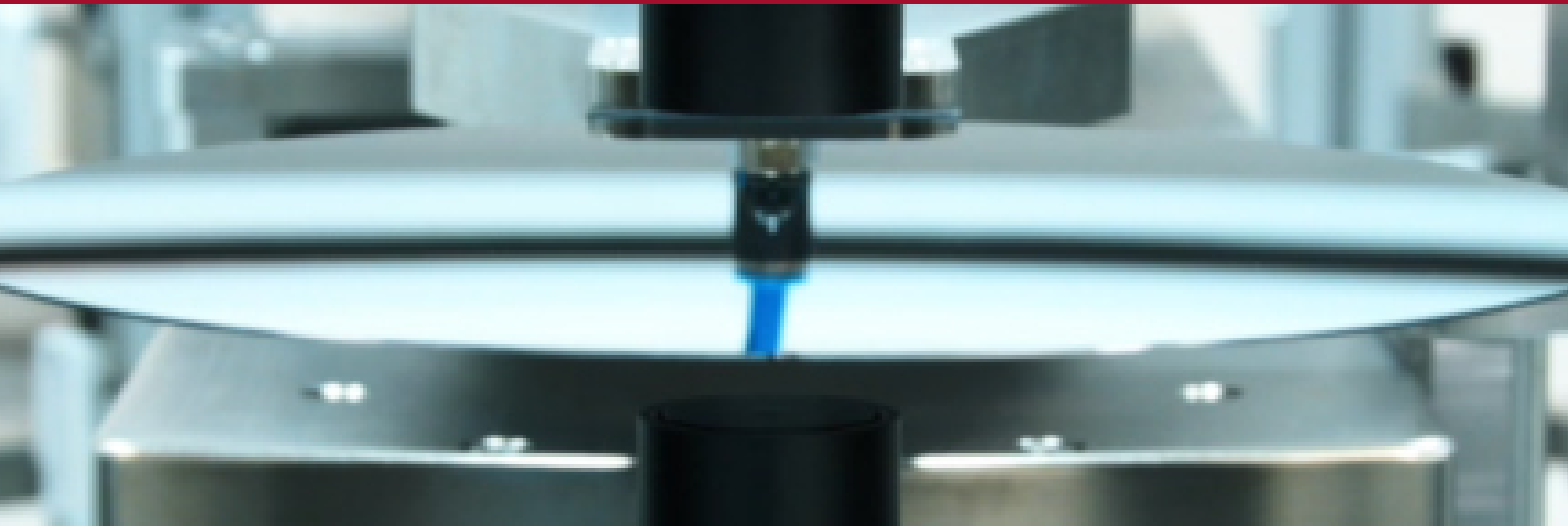邮箱：info@auniontech.com
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Applications

▸ Semiconductor industry

▸ Electronic industry

▸ Metallization in photovoltaics

▸ Batteries, fuel cells, capacitors

▸ Boards and panels (PCB, WLP, PLP)

▸ Mirrors and lenses

▸ Barrier films

▸ EMC/EMI Shielding

▸ Heating and de-icing films

▸ Medical applications

Materials

▸ Metal films

▸ Metal meshes

▸ Metal substrates

▸ Alloy films

▸ Alloy substrates

Engineered and Made in Germany 🇩🇪

TÜV SÜD ISO 9001

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Measurement technology	Non-contact eddy current sensor
Substrates	Foil, glass, wafer, etc.
Measurement gap size	3 / 5 / 10 / 15 / 25 / 50 mm (other upon request)
Number of monitoring lanes	1 – 99
Sensor sizes (W x L x H) in mm	Sensor M: 80 x 100 x 66 Sensor S: 34 x 48 x 117
Conductive layers	Metals
Metal thickness range Accuracies depend on the selected setup and the type / conductivity of the metal (e.g. copper, aluminum, silver)	Low 1 – 10 nm; 2 – 5 % accuracy Standard 10 – 1,000 nm; 1 – 3 % accuracy High 1 – 100 µm; 0.5 – 3 % accuracy
Metal thickness calibration	Direct thickness calibration / sheet resistance conversion
Other integrated measurements	Temperature (for integrated temperature drift compensation for long term measurements)
Environment	Ex-vacuo / in-vacuo @ T < 60°C / 140°F (higher upon request)
Sample rate	1 / 10 / 50 / 100 / 1,000 measurements/s (25,000 Hz upon request)
Hardware trigger	24 V (5 or 12 V upon request)
Interfaces	UDP, TCP, .Net libraries, Modbus, Profinet, analog/digital, CSV, XML, other
Further available features / other tool configurations	Sheet resistance measurement / conductivity / resistivity / anisotropy / emissivity / permeability (*beta*)

Device Control and Software

▶ Several views and user levels

▶ Live view with upper and lower limits and alarm functions

▶ Analysis view providing statistics

▶ Can handle data of several thousands measurements per second

▶ Data storage into SQL database

▶ Customizable automated data export (csv, txt, xls,...)

▶ Several smart functions (automated DB cleaning, self-reference etc.)

▶ Parameterizable I/O modules (triggering of actions or alarms)