

EddyCus[®] TF inline RM – Resistivity Monitoring

P_T_inlineRM_20



Highlights

- ▶ Contact free and real time
- ▶ Accurate measurement
- ▶ High degree of variability 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

Applications

- ▶ Architectural glass (LowE)
- ▶ Touch screens and flat monitors
- ▶ OLED and LED
- ▶ Smart-glass
- ▶ Transparent antistatic foils
- ▶ Photovoltaics
- ▶ Semiconductors
- ▶ De-icing and heating
- ▶ Batteries and fuel cells
- ▶ Packaging materials

Parameters

- ▶ Sheet resistance (Ohm/sq)
- ▶ Metal layer thickness (nm, μm)
- ▶ Metal substrate thickness (μm)
- ▶ Anisotropy
- ▶ Defects
- ▶ Integrity assessment

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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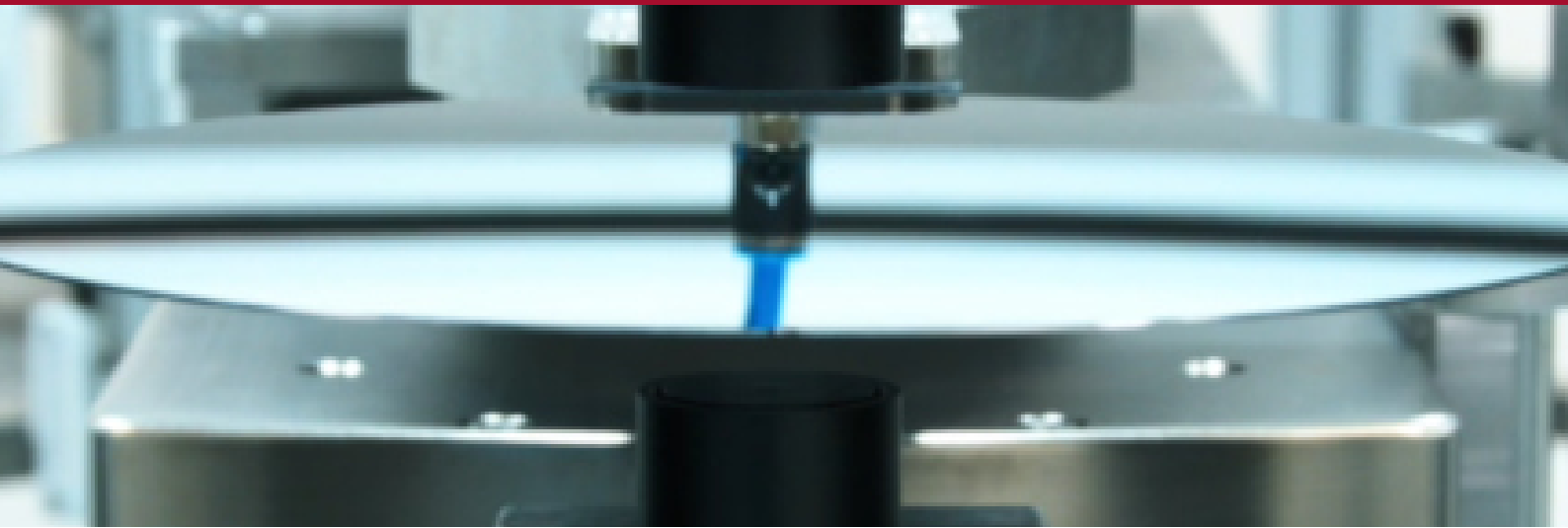
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Made and Engineered in Germany 





Sheet resistance measurement technology	Non-contact eddy current sensor
Substrates	e.g. foils, glass, wafer, etc.
Measurement gap size	5 / 10 / 15 / 25 / 50 / 75 mm
Number of sensor pairs / 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/ TCOs/ CNTs/ nanowires/ graphene/ grids/ PEDOT/ others
Resistivity range	0.1 mOhm·cm – 5 Ohm·cm
Conductivity range	0.01 – 65 MS/m
Other integrated measurements	Metal thickness/ optical transparency /density /electrical anisotropy
Environment	Ex-vacuo/ in-vacuo @ T < 60°C / 140°F (higher on request)
Sample rate	1 / 10 / 50 / 100 / 1,000 measurements per second
Hardware trigger	5 / 12 / 24 V
Interfaces	UDP, .Net libraries, TCP, Modbus, analog/digital

Device Control and Software

- ▶ Several views and user level
- ▶ 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 automatic data export (csv, txt, xls,...)
- ▶ Several smart functions (automated DB cleaning, self-reference etc.)
- ▶ Parameterizable I/O modules (triggering of actions or alarms)

