SURAGUS
Sensors & Instruments

EddyCus® inline Sensorline – Full Area Inline Monitoring

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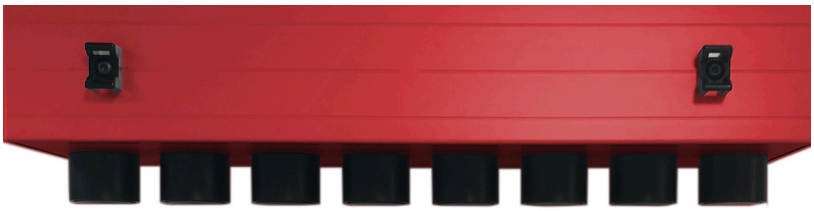

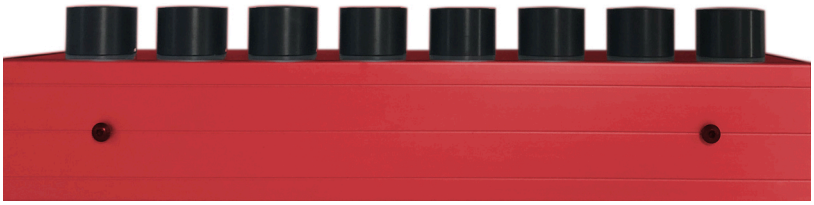

Highlights

- Contact free and real time
- Accurate measurement
- High degree of variability and flexibility
- High sample rate up to 1,000 measurements per second
- Full width measurement

Parameters

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

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

Materials

- Wafer
- 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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www.suragus.com
www.suragus.com/calculator
www.suragus.com/EddyCusSensorline

Engineered and Made in Germany

TÜV SÜD ISO 9001

JEC GROUP WINNER OF 2016 INNOVATION AWARD

EddyCus® inline Sensorline – Full Area Inline Monitoring

Sheet resistance measurement technology	Non-contact eddy current sensor
Substrates	Foils, glass, wafer, paper etc.
Measurement gap size	3 / 5 / 10 / 15 / 25 / 50 / 75 mm
Number of sensor pairs / monitoring lanes	Up to 128 sensors
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
Sheet resistance range accuracy can be optimized over sheet resistance decade within a customer specified range	Low 0.0001 – 10 Ohm / sq; 2 to 7 % accuracy Standard 0.01 – 1,000 Ohm / sq; 2 to 7 % accuracy High 10 – 100,000 Ohm / sq; 3 to 7 % accuracy
Metal thickness measurement range	2 nm – 2 mm (in accordance with sheet resistance)
Sensor pitch	40 mm (5 to 100 mm on request)
Environment	Ex-vacuo/ in-vacuo @ T < 60°C / 140°F (on request <90°C / 194°F)
Sample rate	1 / 10 / 50 per second
Hardware trigger	5 / 12 / 24 V
Interfaces	UDP, .Net libraries, TCP, Modbus, analog/digital
Available options	8-sensor array, 40 mm pitch (total array width of 320 mm)* 16-sensor array, 40 mm pitch (total array width of 640 mm)* 32-sensor array, 40 mm pitch (total array width of 1,280 mm)* 48-sensor array, 40 mm pitch, (total array width of 1,920 mm)* 64-sensor array, 40 mm pitch (total array width of 2,560 mm)*

Software – EddyCus® inline Series

* with standard sensor housing

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