Efficient Testing Solutions

Data Sheet- EddyCus® TF lab 2020 Series

Highlights

- Contact-free and real time
- Accurate single-point measurement
- Characterization of multilayer systems on request
- Manual mapping of sheet resistance guided by an easy-to-handle software

Parameters

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

Applications

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

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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Made and Engineered in Germany

Innovation Award by Free State of Saxony 2013
1st Place

ISO 9001

TUV SUD

Winner of 2016

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<table>
<thead>
<tr>
<th><strong>Sheet resistance measurement technology</strong></th>
<th>Non-contact eddy current sensor</th>
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<tbody>
<tr>
<td><strong>Substrates</strong></td>
<td>e.g. foils, glass, wafer, etc.</td>
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<tr>
<td><strong>Substrate area</strong></td>
<td>8 inch/ 204 x 204 mm (open to three sides)</td>
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<tr>
<td><strong>Max. sample thickness/ sensor gap</strong></td>
<td>1 / 2 / 5 / 10 / 25 mm (defined by the thickest sample)</td>
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<tr>
<td><strong>Sheet resistance range</strong></td>
<td>Low 0.0001 - 10 Ohm / sq; 1 to 5 % accuracy</td>
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<td></td>
<td>Standard 0.01 - 1,000 Ohm / sq; 1 to 5 % accuracy</td>
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<tr>
<td></td>
<td>High 10 - 100,000 Ohm / sq; 2 to 8 % accuracy</td>
</tr>
<tr>
<td><strong>Thickness measurement range of metal films (e.g. copper)</strong></td>
<td>2 nm - 2 mm (in accordance with sheet resistance)</td>
</tr>
<tr>
<td><strong>Device dimension (w/h/d) / weight</strong></td>
<td>11.4 x 17.5 x 5.5 inch / 290 x 140 x 445 mm / 10 kg</td>
</tr>
<tr>
<td><strong>Available features</strong></td>
<td>Sheet resistance measurement / Metal thickness tester</td>
</tr>
</tbody>
</table>

**Software and Handling - Sheet Resistance Analyzer 2.0**

![Image of EddyCus® TF lab 2020 Series](image)

![Software interface](image)

**Sheet Resistance**

103.30 Ω/sq