Efficient Testing Solutions

Data Sheet - EddyCus® TF 4040 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
- Defects
- 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

SURAGUS GmbH
Maria-Reiche-Straße 1
01109 Dresden
Germany
+49 351 32 111 520
info@suragus.com

www.suragus.com
www.sheet-resistance-testing.com
www.suragus.com/FAQ
www.suragus.com/EddyCusLab4040

Made and Engineered in Germany

Innovation Award by Free State of Saxony 2013
1st Place

TUV SUD
ISO 9001

Winner of 2016 Innovation Award
<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheet resistance measurement technology</td>
<td>Non-contact eddy current sensor</td>
</tr>
<tr>
<td>Substrates</td>
<td>e.g. foils, glass, wafer, etc.</td>
</tr>
<tr>
<td>Substrate area</td>
<td>29.5 x 25.6 inch / 750 x 650 mm (for 400 x 400 mm samples)</td>
</tr>
<tr>
<td>Max. sample thickness/ sensor gap</td>
<td>1 / 2 / 5 / 10 / 25 mm (defined by the thickest sample)</td>
</tr>
<tr>
<td>Sheet resistance range</td>
<td>Low 0.0001 - 10 Ohm / sq; 1 to 5 % accuracy</td>
</tr>
<tr>
<td></td>
<td>Standard 0.01 - 1,000 Ohm / sq; 1 to 5 % accuracy</td>
</tr>
<tr>
<td></td>
<td>High 10 - 100,000 Ohm / sq; 2 to 7 % accuracy</td>
</tr>
<tr>
<td>Thickness measurement of thin films</td>
<td>2 nm - 2 mm (in accordance with sheet resistance)</td>
</tr>
<tr>
<td>(e.g. copper)</td>
<td></td>
</tr>
<tr>
<td>Device dimension (w/h/d) / weight</td>
<td>30 x 12 x 26 inch / 760 x 310 x 660 mm / 20 kg</td>
</tr>
<tr>
<td>Available features</td>
<td>Sheet resistance measurement</td>
</tr>
<tr>
<td></td>
<td>Metal thickness tester</td>
</tr>
<tr>
<td></td>
<td>Anisotropy sensor</td>
</tr>
<tr>
<td></td>
<td>Optical transparency</td>
</tr>
</tbody>
</table>

Software and Handling - EddyCus® TF lab Control

![Software and Handling - EddyCus® TF lab Control](image)