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

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Made and Engineered in Germany
## EddyCus® TF lab 4040 Series

**Sheet resistance measurement technology** | Non-contact eddy current sensor  
**Substrates** | e.g. foils, glass, wafer, etc.  
**Substrate area** | 29.5 x 25.6 inch/ 750 x 650 mm (for 400 x 400 mm samples)  
**Max. sample thickness/ sensor gap** | 1 / 2 / 5 / 10 / 25 mm (defined by the thickest sample)  
**Sheet resistance range** | Low 0.0001 - 10 Ohm / sq; 1 to 5 % accuracy  
**accuracy can be optimized over sheet resistance decade within a customer specified range** | Standard 0.01 - 1,000 Ohm / sq; 1 to 5 % accuracy  
**High 10 - 100,000 Ohm / sq; 2 to 7 % accuracy**  
**Thickness measurement of thin films (e.g. copper)** | 2 nm - 2 mm (in accordance with sheet resistance)  
**Device dimension (w/h/d) / weight** | 30 x 12 x 26 inch / 760 x 310 x 660 mm / 20 kg  
**Available features** | Sheet resistance measurement  
**Metal thickness tester**  
**Anisotropy sensor**  
**Optical transparency**  

### Software and Handling - EddyCus® TF lab Control

![Image of EddyCus® TF lab Control software](image)

**Sheet Resistance**

325.3 Ω/sq