# Data Sheet- EddyCus® TF 4040 Series

P\_T\_4040\_11



## 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

### **Materials**

Architectural glass (LowE)

**Applications** 

- ► 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

- ► 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

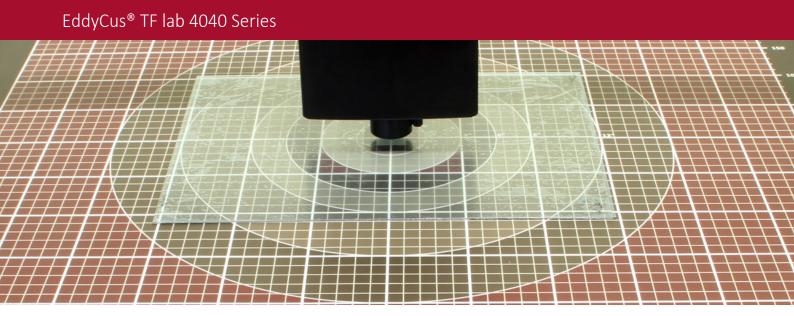
www.suragus.com www.sheet-resistance-testing.com www.suragus.com/FAQ www.suragus.com/EddyCusLab4040

Made and Engineered in Germany

Innovation Award by Free State of Saxony 2013 1st Place







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 accuracy can be optimized over sheet resistance decade within a customer specified range	Low       0.0001 - 10 Ohm / sq; 1 to 5 % accuracy         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

