

EddyCus® TF lab 4040SR — Sheet Resistance Tester

P T 4040SR 23



Highlights

- ► Contact-free and realtime
- ► Accurate single-point measurement
- Characterization of multilayer materials upon request
- Manual mapping of sheet resistance guided by easy-to-handle software

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

Device Series

- Metal thickness (nm, μm)
- ► Sheet resistance (Ohm/sq)
- Emissivity
- Conductivity / resistivity (mOhm cm)
- ► Electrical anisotropy (%)
- ▶ Weight (g/m²) and drying status (%)
- ► Permeability (H/m) Beta
- ► Optical transmittance, reflectance, haze (%)

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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Engineered and Made in Germany







Measurement technology	Non-contact eddy current sensor
Substrates	Foils, glass, wafer, etc.
Substrate area	29.5" x 25.6" / 750 mm x 650 mm (for 400 mm x 400 mm samples)
Max. sample thickness/ sensor gap	3/5/10/25 mm (defined by the thickest sample)
Thickness measurement range of metal films (e.g. copper)	2 nm – 2 mm (in accordance with sheet resistance)
Device dimensions (w/h/d) / weight	30" x 12" x 26" / 760 mm x 310 mm x 660 mm / 20 kg
Further available features	Sheet resistance measurement, Metal thickness tester, Anisotropy sensor, Optical transmittance, reflectance, haze
VLSR LSR	MSR HSR VHSR
6 decades are measu	urable by one sensor, but with slightly affected accuracy
Range [Ohm/sq] 0.0001 – 0.1 0.01 – 10	0.1 – 100 10 – 2,000 1,000 – 200,000
Accuracy / Bias ± 1%	±1-3% ±3-5%
Repeatability (2σ) < 0.3%	< 0.5% < 0.3%

 $VLSR-Very\ Low\ Sheet\ Resistance\ ,\ LSR-Low\ Sheet\ Resistance\ ,\ MSR-Medium\ Sheet\ Resistance\ ,\ HSR-High\ Sheet\ Resistance\ ,\ VHSR-Very\ High\ Sheet\ Resistance\ ,\ MSR-Medium\ Sheet\ Resistance\ ,\ MSR-High\ Sheet\ Resistance\ ,\ NHSR-Very\ High\ Sheet\ NHSR-Very\ High\ Sheet\ Resistance\ ,\ NHSR-Very\ High\ Sheet\ N$

Device Control and Software

