

Non-Contact Sheet Resistance Tester



DATA SHEET - EddyCus[®] TF lab 2020 series

HIGHLIGHTS

- Contact-free & real-time
- Accurate single-point measurement of sheet resistance for conductive thin films (Ohm/sq)
- Layer thickness measurement of metal films (nm)
- Layer and substrate thickness monitoring (μm)
- Characterization of multilayer systems on request
- Manual mapping of sheet resistance guided by an easy-to-handle software

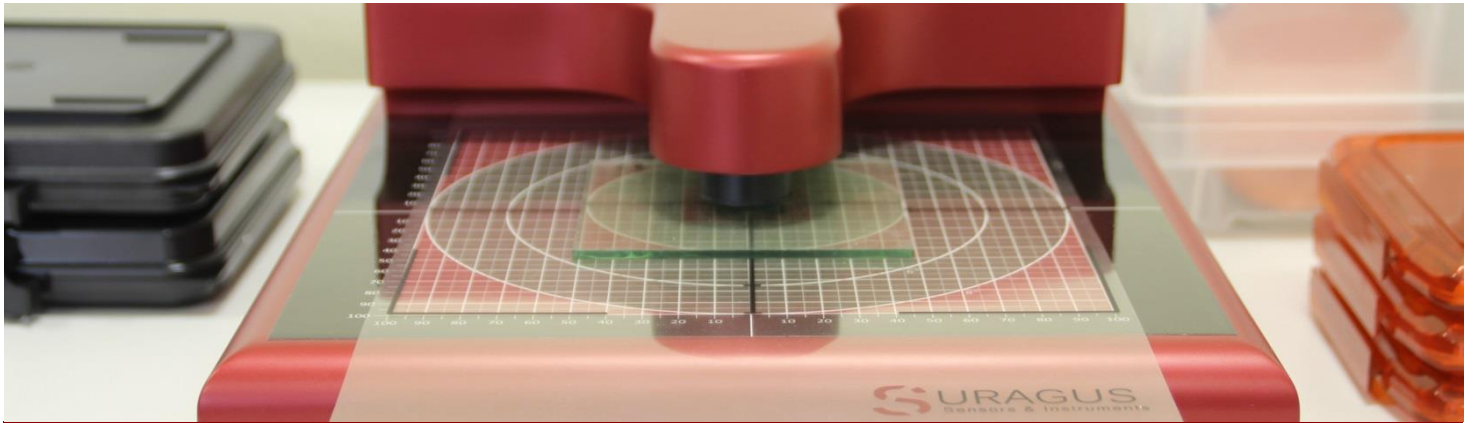
APPLICATIONS

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



DATA SHEET

EddyCus® TF lab 2020 series – Sheet Resistance Tester



EddyCus® TF lab 2020 series

Sheet resistance measurement technology	Non-contact eddy current sensor
Substrates	e.g. foil, glass, wafer, etc.
Substrate area	8 inch / 204 x 204 mm (open to three sides)
Max. sample thickness/sensor gap(defines distances)	1 / 2 / 5 / 10 / 25 mm (defined by the thickest sample / application)
Sheet resistance range	0.0001 – 10 Ohm/sq; 2 % accuracy & 1 % repeatability 10 – 100 Ohm/sq; 3 % accuracy & 1.5% repeatability 100 – 500 Ohm/sq; 4 % accuracy & 2% repeatability 100 – 1,000 Ohm/sq; 5 % accuracy & 2.5 % repeatability 1,000 – 3,000 Ohm/sq; 8 % accuracy & 4 % repeatability.
Thickness measurement range of metal films (e.g. Cu, Al)	2 nm – 2 mm (in accordance with sheet resistance)
Device dimension (w/h/d)	11.4 x 17.5 x 5.5 inch / 290 x 445 x 140 mm
Weight	10 kg
Available future	Sheet resistance measurement / metal thickness tester

SOFTWARE & HANDLING – EddyCus® TF lab Control

Configuration

- Measurement Type: Sheet Resistance
- Sample Size: 50 mm
- Sample Thickness: 0 to 3 mm
- Measurement Range: 0.3 to 300 Ω/sq
- Selected Set: 50@SR

Real Time Measurement

Sheet Resistance
103.30 Ω/sq

Automatic

Self Referencing

Set No of Digits: 0.00

Data Tracker

Series Name: Sample Serie Name

Id	Time	Series N...	Value	Unit
1	3:58:42...	Sample...	12.62	Ω/sq
2	3:58:53...	Sample...	4.13	Ω/sq
3	3:58:59...	Sample...	27.94	Ω/sq
4	3:59:10...	Sample...	52.53	Ω/sq
5	3:59:28...	Sample...	103.56	Ω/sq
6	3:59:35...	Sample...	189.26	Ω/sq
7	4:00:06...	Sample...	265.28	Ω/sq

Graph Data:

Id	Value (Ω/sq)
1	12.62
2	4.13
3	27.94
4	52.53
5	103.56
6	189.26
7	265.28