

EddyCus[®] lab 2020RM – Resistivity Tester

P_2020RM_23



Highlights

- ▶ Contact-free and realtime
- ▶ Accurate single-point measurement
- ▶ Manual mapping guided by easy-to-handle software
- ▶ Measurement of encapsulated layers
- ▶ Characterization of bulk specimen

Device Series

- ▶ Conductivity / resistivity (mOhm·cm)
- ▶ Sheet resistance (Ohm/sq)
- ▶ Metal layer thickness (nm, μm)
- ▶ Metal substrate thickness (μm)
- ▶ Emissivity
- ▶ Defects and integrity assessment

Applications

- ▶ Wafer resistivity
- ▶ Ingot and boule resistivity
- ▶ Sputter target composition
- ▶ Purity assessment
- ▶ Electrical discharge machining
- ▶ Material sorting
- ▶ Melting, casting, sintering
- ▶ Defect imaging and integrity assessment

Materials

- ▶ Semiconductors
 - ▶ Si (mono, poly)
 - ▶ SiC, SiSiC
 - ▶ GaAs
 - ▶ GaN
- ▶ Alloys
- ▶ Metals
- ▶ Graphite
- ▶ Graphene
- ▶ Compounds
- ▶ Composites

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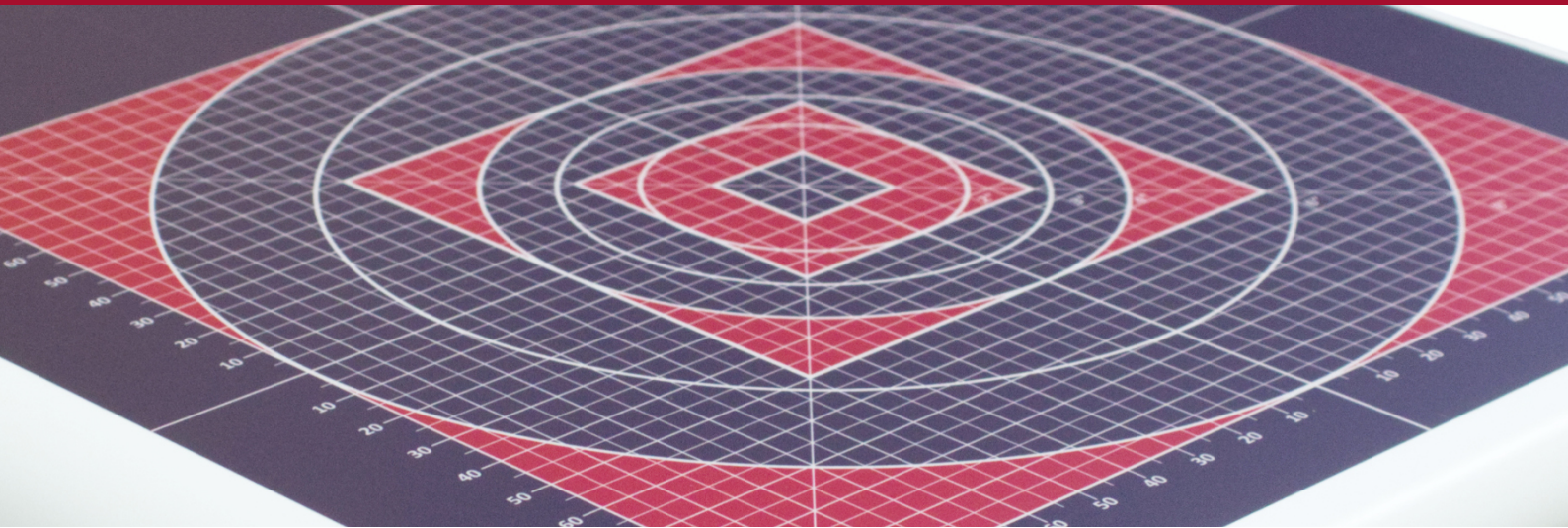
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Engineered and Made in Germany 





Measurement technology	High frequency eddy current sensor
Materials	Si, SiC, alloys, metals, carbon-based materials
Substrate area	8 inch / 204 mm x 204 mm
Max. sample dimensions	Unrestricted (device open on all sides)
Resistivity measurement	0.002 – 0.1 mOhm·cm 0.1 – 100 mOhm·cm
accuracy can be optimized within a customer specified range	100 – 1,000 mOhm·cm
Sheet resistance range	0.01 – 100 Ohm/sq
Thickness measurement range of metal films (e.g. copper)	2 nm – 2 mm (in accordance with sheet resistance)
Device dimensions (w/h/d) / weight	11.4" x 5.5" x 17.5" / 290 mm x 92 mm x 445 mm / 10 kg
Further available features	Sheet resistance measurement Metal thickness monitor

Device Control and Software

The software interface displays the following data:

Id	Time	Series N.	Value	Unit
1	11:41:50	ingot ser...	1.99e+01	mOhm cm
2	11:42:07	ingot ser...	1.99e+01	mOhm cm
3	11:42:24	ingot ser...	1.99e+01	mOhm cm
4	11:42:41	ingot ser...	1.99e+01	mOhm cm
5	11:42:58	ingot ser...	1.99e+01	mOhm cm
6	11:43:15	ingot ser...	2.00e+01	mOhm cm
7	11:43:32	ingot ser...	1.99e+01	mOhm cm
8	11:43:50	ingot ser...	1.99e+01	mOhm cm
9	11:44:07	ingot ser...	1.99e+01	mOhm cm
10	11:44:24	ingot ser...	1.98e+01	mOhm cm
11	11:44:41	ingot ser...	1.99e+01	mOhm cm