Efficient Testing Solutions

**SURAGUS**
Sensors & Instruments

# EddyCus® portable 1010RM – Handheld Resistivity Tester

SHEET RESISTANCE TESTER

Sheet Resistance

STR                    0.3·50

**7.66**

Ready                  Ohm/☐

Measure        Set 6
               121020

End            Ref

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EddyCus® TF Portable 1010

## Highlights

▶ Realtime and easy to use

▶ Emissivity conversion
  Wireless data transfer via Bluetooth

▶ Data center to manage and visualize
  data from different portable systems

▶ Easy to use software

## Device Series

▶ Conductivity / resistivity (mOhm·cm)

▶ Sheet resistance (Ohm/sq)

▶ Metal layer thickness (nm, μm)

▶ Metal substrate thickness (μm)

▶ Emissivity

▶ Defects and integrity assessment

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## Applications

▶ Sputter targets

▶ Ingots

▶ Silicon blocks

▶ Graphite blocks

▶ Alloys blocks

▶ Material sorting

▶ Recycling

## Materials

▶ Semiconductors

▶ Alloys

▶ Metals

▶ Graphite

▶ Compounds

▶ Composites

Engineered and Made in Germany 🇩🇪

TÜV SÜD
ISO 9001

JEC GROUP
WINNER OF 2016
INNOVATION AWARD

| | |
|---|---|
| Measurement technology | High frequency eddy current sensor |
| Measurement mode | Realtime at constant distance / contact |
| Substrates | Ingot |
| Substrate sizes | Flat samples > 150 mm x 150 mm (6 inch x 6 inch)<br>Curved editions are available for several applications (ingots) |
| Measurement spot / high sensitivity zone | 40 mm diameter (1.6 inch) |
| Power | Lithium ion battery up to 20 h |
| Resistivity / conductivity range | Three setups available |

| Type | Resistivity | Conductivity |
|---|---|---|
| Metals and alloys | 0.07 – 3 mOhm·cm | 0.01 – 65 MS/m |
| SiC | 3 – 25 mOhm·cm | 0.003 - 0.03 MS/m |
| Si, GaN, GaAs | On request | On request |

| | |
|---|---|
| Thickness measurement | Additional feature |
| Sheet resistance measurement | Additional feature, in 5 ranges between 0.001 to 100 Ohm/sq |
| Accuracy (for planar solid surfaces) | < 3% |
| Display | 2.8 inch colored touch screen |
| Device dimensions (w/h/d) @ weight | 3.5" x 7" x 1.9" / 87 mm x 178 mm x 48 mm @ 340g |
| Interfaces | Bluetooth (optional) + data center |

## Device Control and Software

► Portable
► Non-destructive portable measurement
► Realtime and easy to use
► Data recording function
► Accurate and reliable
► Touch screen
► Customizable calibration
► Data aggregation in PC via Bluetooth