

EddyCus® TF portable 1010MT – Handheld Metal Thickness Tester

P_T_1010MT_20



Highlights

- ▶ Realtime and easy to use
- ▶ Wireless data transfer via Bluetooth
- ▶ Data center to manage and visualize data from different portable systems
- ▶ Easy to use software

Applications

- ▶ Electronic industry
- ▶ Metallization in photovoltaics
- ▶ Electrodes in batteries and fuel cells
- ▶ Circuit boards (PCB)
- ▶ Reflective coatings in mirrors
- ▶ Medical devices
- ▶ Barrier films in packaging materials
- ▶ Shielding applications
- ▶ Heating applications
- ▶ Other

Parameters

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

Materials

- ▶ Metal films
- ▶ Metal meshes
- ▶ Metal substrates
- ▶ Alloy films
- ▶ Alloy substrates

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Made and Engineered in Germany 





Measurement technology	Eddy current sensor
Measurement mode	Realtime at constant distance / contact
Substrates	Glass, plates, foils etc.
Substrate sizes	Flat samples > 150 mm x 150 mm (6 inch x 6 inch) Curved editions are available for several applications
Measurement spot / high sensitivity zone	40 mm diameter (1.6 inch)
Power	Lithium ion battery > 9 h
Metal thickness range (four setups available)	Range depends on material conductivity. Examples:
Type very low: 0.001 – 0.1 Ohm/sq	Cu 0.17 – 17 µm Al 0,27 – 27 µm Ag 0.16 – 15 µm Ti 5.5 – 550 µm
Type low: 0.04 – 0.1 Ohm/sq	170 – 425 nm 270 – 675 nm 155 – 380 nm 5.5 – 13 µm
Type standard: 0.3 – 30 Ohm/sq	0.6 – 56 nm 0.9 – 90 nm 0.5 – 50 nm 0.018 – 1.85 µm
Type high: 0.3 – 50 Ohm/sq	0.4 – 56 nm 0.6 – 90 nm 0.3 – 50 nm 0.013 – 1.85 µm
Sheet resistance measurement	Available as additional feature, 5 ranges are available between 0.001 to 100 Ohm/sq
Accuracy (for planar solid surfaces, e.g. glass)	< 3%
Display	2.8 inch colored touch screen
Device dimension (w/h/d) @ weight	3.5 inch x 7 inch x 1.9 inch / 87 mm x 178 mm x 48 mm @ 340g
Interfaces	Bluetooth (optional) + data center

Device Control and Software

- ▶ Portable
- ▶ Non-destructive contact measurement
- ▶ Real time and easy to use
- ▶ Data recording function
- ▶ Accurate and reliable
- ▶ Touch screen
- ▶ Customizable calibration
- ▶ Data aggregation in PC via Bluetooth

