

EddyCus® portable 1010MT – Handheld Metal Thickness Tester

P_1010MT_23



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

Device Series

- ▶ 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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www.suragus.com/calculator
www.suragus.com/EddyCusPor1010

Engineered and Made 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 up to 20 h																													
Metal thickness range (four setups available)	Range depends on material conductivity. Examples:																													
	<table border="1"> <thead> <tr> <th></th> <th>Cu</th> <th>Al</th> <th>Ag</th> <th>Ti</th> </tr> </thead> <tbody> <tr> <td>Type very low:</td> <td>0.001 – 0.1 Ohm/sq</td> <td>0.17 – 17 μm</td> <td>0.27 – 27 μm</td> <td>0.16 – 15 μm</td> <td>5.5 – 550 μm</td> </tr> <tr> <td>Type low:</td> <td>0.04 – 0.1 Ohm/sq</td> <td>170 – 425 nm</td> <td>270 – 675 nm</td> <td>155 – 380 nm</td> <td>5.5 – 13 μm</td> </tr> <tr> <td>Type standard:</td> <td>0.3 – 30 Ohm/sq</td> <td>0.6 – 56 nm</td> <td>0.9 – 90 nm</td> <td>0.5 – 50 nm</td> <td>0.018 – 1.85 μm</td> </tr> <tr> <td>Type high:</td> <td>0.3 – 50 Ohm/sq</td> <td>0.4 – 56 nm</td> <td>0.6 – 90 nm</td> <td>0.3 – 50 nm</td> <td>0.013 – 1.85 μm</td> </tr> </tbody> </table>		Cu	Al	Ag	Ti	Type very low:	0.001 – 0.1 Ohm/sq	0.17 – 17 μm	0.27 – 27 μm	0.16 – 15 μm	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
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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 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 contact measurement
- ▶ Real time and easy to use
- ▶ Data recording function
- ▶ Accurate and reliable
- ▶ Touch screen
- ▶ Customizable calibration
- ▶ Data aggregation in PC via Bluetooth

