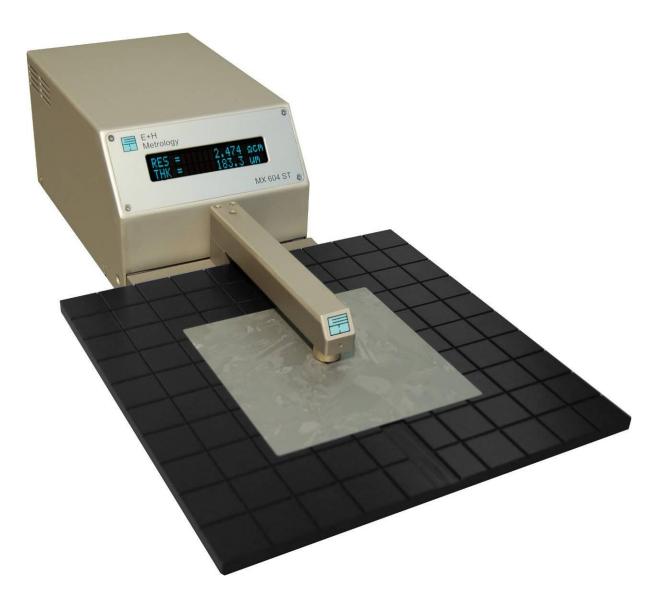


## **MX 604-ST**

## Electronic Thickness and Resistivity Gauge



This easy to use metrology tool is designed for characterisation of mainly Solar wafer (of course, also round wafers with similar specification range). It uses a combined capacitive and inductive sensor construction for measuring thickness and resistivity at the same wafer spot. The system is completely self calibrating, thus temperature and humidity changes are negligible.

The stand-alone gauge can also be PC-connected using an RS 232 interface. This enables collecting data of multiple measurements, calculating TTV, mean value or standard deviation of single wafers or of complete wafer lots.

MX 604-ST Version: 2.1, kdr



## **Technical Specifications**

Wafer Sizes Square, Pseudo-Square up to 156 mm

Round 2" to 8"

Thickness  $60 - 300 \mu m^*$ )

Accuracy+/- 1 μmSensor Diameter20 mmActive Area12 mm ØDistance from Edge10 mm

Sheet Resistance  $10 - 1000 \Omega/\Box$ \*)

Resistivity  $0.06 - 6 \Omega \times cm \text{ (thk.= 60 \mu m)}$ 

 $0.3 - 30 \Omega \times cm \text{ (thk.} = 300 \mu \text{m)}$ 

Accuracy ± 5 % Sensor Diameter 20 mm

Active Area ca. 12 mm Ø

Distance from Edge 10 mm

Gap between Sensor and table 1000 μm

Measuring time 0.3 s

Power Voltage 100 – 240 VAC

Consumption 15 VA

\*) Up to factor two higher thicknesses and sheet resistances are possible with accordingly reduced accuracy

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