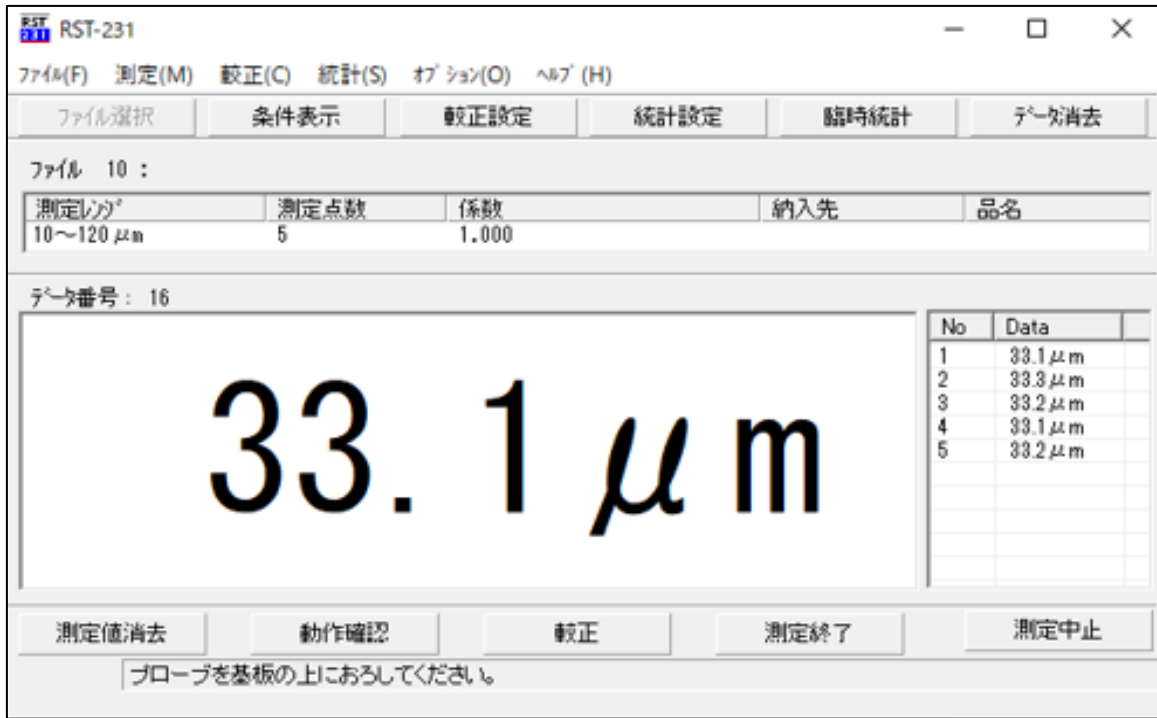# RST-231

Electrical resistance coating thickness tester

●Metal films on insulators (copper foil, plating of printed circuit boards, etc.) can be measured in a short time (0.7 seconds) with high accuracy.

●A 4-probe probe (Kelvin type) is used, so double-sided boards and multilayer boards can be measured with high accuracy without being affected by the back surface or internal layers.

●I use a computer. The screen is large, bright and easy to see.

●Easy to calibrate and measure. Two types of ranges can be selected, and metal films from 2 to 120 μm can be measured.

●Since up to 40 channels can be registered, channels can be managed by registering them separately by user name, part number, etc.

●Measured data can be saved for each channel, and statistical items can be set for measured data later for statistical processing.

●By setting the upper and lower limits of the film thickness, an abnormal value will be notified.

Measuement Screen

■Principle of measurement

The probe has four metal pins (probes) in a straight line.

These four probes are brought into contact with the metal foil or metal plating surface on the insulator to be measured.

A constant current (I) is passed through the two outer probes and the voltage (V) is measured.

The thickness (T) of the metal foil or metal plating that the probe is in contact with can be calculated using the following formula under certain conditions.

$$T = K \times I \div V$$

where K is a constant

Therefore, by measuring the voltage between the two inner probes, the thickness of metal foil or metal plating can be measured.

■Specification

Model (main unit):	RST-231 type
Measurement principle:	4-probe electric resistance type
Measurement range:	2 to 24 µm, 10 to 120 µm
Number of channels:	40 channels
Data capacity:	100,000 data
Display:	Depends on PC monitor screen
Statistical processing:	maximum value, minimum value, average value, standard deviation, average value, standard deviation, Histogram, upper and lower limit setting
Power supply:	AC100-240V, 50/60Hz, 10VA
Weight:	3.0kg (body)
Dimensions:	280 (W) x 230 (D) x 88 (H) (body)

SANKO ELECTRONIC LABORATORY CO.,LTD.

URL:https://www.sanko-denshi.co.jp E-mail:info@sanko-denshi.co.jp