Jandel Engineering Limited

Jandel RM3000+ test unit

Jandel Engineering Limited offers the RM3000+ for use in making four point probe measurements. The RM3000+ can supply constant currents between 10nA and 100mA, and measures voltages from 0.001mV to 1000mV.

For sheet resistance measurements, the quoted range is 1 milliohm/square to 100 Megohms/square. Measurements outside this range are possible but with potential reduced accuracy.

For volume (bulk) resistivity measurements, the quoted range is 1 milliohm.cm to 1 x 10^6 ohm.cm. Measurements outside this range may be possible but will depend on the type of sample e.g whether the sample is a thin layer.

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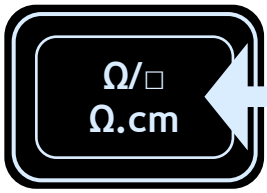
Measurement range	1 mohm/square – 100 Megohms/square, 1 mohm.cm – 1 Megohm.cm
Units	mV ohm/square ohm.cm (wafers) ohm.cm (volume)
Onboard memory	50 time-stamped measurements
Software	For operation and data control. Supplied free of charge
Autorange	Determines appropriate current settings
Current	10nA – 100mA. Reversible to verify contact and measurement
Accuracy	Better than 0.1% against resistors for 100nA and greater
Connections	USB or RS-232
Correction	Option to input correction factor to adjust displayed readings
Ohm.cm	Option to input probe spacing/wafer thickness for auto calculation

Unit selection



Easy unit selection

Measurements can be displayed on screen as mV, ohms, ohms/square or ohm.cm. There is a facility to input either probe spacing or wafer thickness so that ohm.cm values can be automatically calculated and displayed.

Computer connection and software

The RM3000+ can be connected to computer by either USB or RS-232 connection. The customer can operate the unit using the computer keyboard, terminal emulation software such as HyperTerminal, or with the free software provided.

If you require any further information on the Jandel RM3000+ test unit, please do not hesitate to contact us using the details below.

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