

# 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 measure 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 possible reduced accuracy.

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

<i>Measurement range</i>	1 mohm/square - 100 Megohms/square, 1 mohm.cm - 1 Megohm.cm
<i>Units</i>	mV ohm/square ohm.cm (wafers) ohm.cm (volume)
<i>Onboard Memory</i>	50 time-stamped measurements
<i>Software</i>	For operation and data control supplied free of charge
<i>Autorange</i>	Determines appropriate current settings
<i>Current</i>	10nA - 100mA, reversible to verify contact and measurement
<i>Accuracy</i>	better than 0.1% against resistors for 100nA and greater
<i>Connections</i>	USB or RS-232
<i>Correction</i>	Option to input correction factor to adjust displayed readings
<i>Ohm.cm</i>	Option to input probe spacing or wafer thickness for auto calculation
<i>AFPP</i>	Powers and controls the optional automatic Z axis AFPP2 unit

## 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 at Jandel using the details below*

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