



JANDEL

HM21 Test Unit

PORTABLE COMBINED CONSTANT CURRENT SOURCE AND VOLTMETER

Jandel Engineering offers the HM21 Test Unit for use in making four point probe measurements. The HM21 has six constant current settings between 100nA and 10mA, and can be used to measure voltages from 0.01mV to 1250mV.

The quoted measurement range of the HM21 is from 1 ohm/square to 10 Megohms/square (sheet resistance), from 0.01 ohm.cm to 10 Kohm.cm (bulk resistivity).*

Measurements can be displayed as mV values or directly in sheet resistance values. Up to 50 readings can be stored in onboard non-volatile memory for downloading to a PC using the free software included. The software can also be used to operate the unit directly from a PC, and to output results as sheet resistance, bulk resistivity, or 'bulk resistivity for wafer' values.

The HM21 enables current to be passed in a forward and reverse direction to verify good contacts and measurements.

Overall accuracy is 0.5%, highest accuracy is in the mid-range of measurements.

Connection to a computer can be made via USB connection, and the unit can be operated standalone, via a graphical interface in the free software provided, or by computer keyboard commands.

The HM21 can be powered using the supplied adapter or using four size AA rechargeable batteries (supplied).



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* measurements outside this range are possible depending on sample type and possible reduced accuracy