

Jandel Engineering Limited



Jandel portable measurement system

Jandel Engineering Limited offers the HM21 test unit in combination with the Hand Applied Probe as a solution for making measurements where portability is a key factor. The system can be used for measuring a wide variety of samples, from thin layers and wafers, up to large ingots. The probe head can have loads of up to 200g per needle and the Hand Applied Probe has a large downward force of around 1.2kg. This measurement solution is therefore not suitable for fragile unsupported samples.

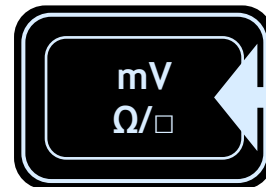
The HM21 has six constant current settings between 100nA and 10mA, and measures voltages from 0.01mV to 1250mV. For sheet resistance measurements, the quoted range is 1 ohm/square to 10 Megohms/square. For volume (bulk) resistivity measurements, the quoted range is 10 milliohm.cm to 10 Kohm.cm. Measurements outside these ranges may be possible, but will depend on the type of sample.

Max. sample size	Any reasonable size sample can be measured as long as the Hand Applied Probe can be placed appropriately
Max. sample thickness	Any thickness of sample can be measured as long as the Hand Applied Probe can be placed appropriately
Toggle switch	Prevents current flow when probe is not in contact with sample
Manual placement	Probe is designed to be placed and left while measurement is made to avoid fluctuation associated with handheld measurement
Simple set up	Single wire connects the Hand Applied Probe and HM21
Measurement range	1 ohm/square - 10 Megohms/square, 10 mohm.cm - 10 Kohm.cm
HM21 units	mV ohm/square
HM21 software	For operation and data control. Supplied free of charge

System configuration

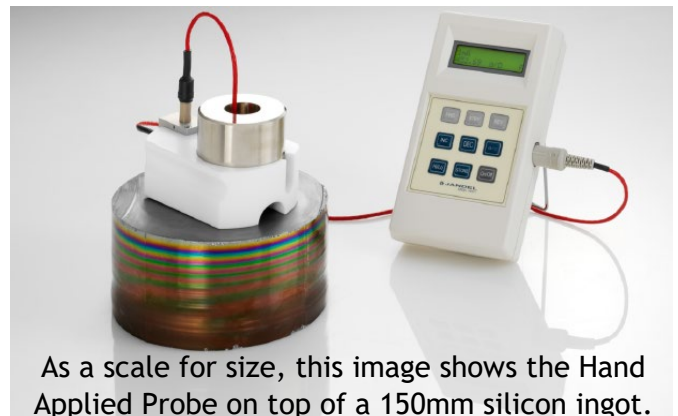
Component parts:

- A. HM21 test unit - 1 pc
- B. Hand Applied Probe device with connecting wire - 1 pc
- C. Four point probe head - 1 pc



Easy unit selection

Note: Our portable measurement system includes a cylindrical four point probe head. For more information on cylindrical probe heads and the specifications available, please see our cylindrical probe head datasheet.



As a scale for size, this image shows the Hand Applied Probe on top of a 150mm silicon ingot.

If you require any further information on the Jandel portable measurement system, please do not hesitate to contact us using the details below.