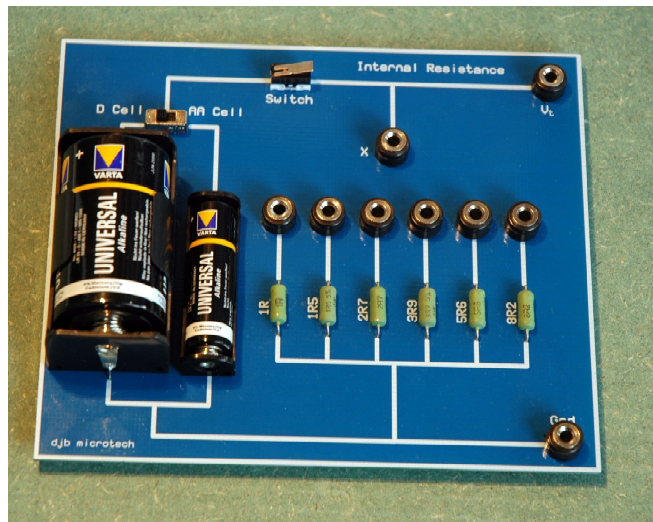


Technical Notes

Internal Resistance Board

The Internal Resistance board was designed to be used with our ALBA data Logger. However it can also be used as a stand alone unit.

To use the board with ALBA you will require the Application on Disk 4. The software directs the user to measure the voltage across each of the high wattage resistors in turn. The current is calculated using Ohm's law.



Using the Board Without a Computer

Select either the AA cell or the D cell.

Connect an ammeter between point X and the top of the 1 ohm resistor.

Connect a voltmeter to measure the terminal voltage of the battery ie between points labelled Vt and Gnd.

Close the switch and hold and hold it shut while the readings on the ammeter and voltmeter are noted.

Keep this time to a minimum.

Repeat this procedure for each of the other five resistors.

The effect of the resistance of the ammeter is assumed to be very small.

Comparison can be made between the AA and D cells - internal resistance and maximum current.