

Technical Notes

The ALBA Joule & Watt Meter

The two DIN plugs on Joule & Watt Meter connect directly to the ALBA Interface - channel three gives the current and channel four the voltage.

There are four Applications on Disk 5 that use the ALBA Joule & Watt Meter:

- Efficiency of a motor
- Specific Heat Capacity - solids
- Specific Heat Capacity - liquids
- Joule & Watt Meter

The Joule & Watt Meter Application is a general purpose tool that enables the user to display any or all of the quantities current, voltage, energy, power and time in graphical/tabular/meter format.

If the Investigator software is used then only the current and voltage will be displayed.

The maximum input rating is 16V, 3A.

The unit is protected by a thermal fuse.

Note that if you use a power supply that has no smoothing the capacitor in the Joule & Watt Meter will smooth the voltage at the peak of the input voltage - this will result in the voltage applied to the unit being considerably larger than the setting on the power supply.

In order to reduce voltage drop keep the leads between the unit and the load short.