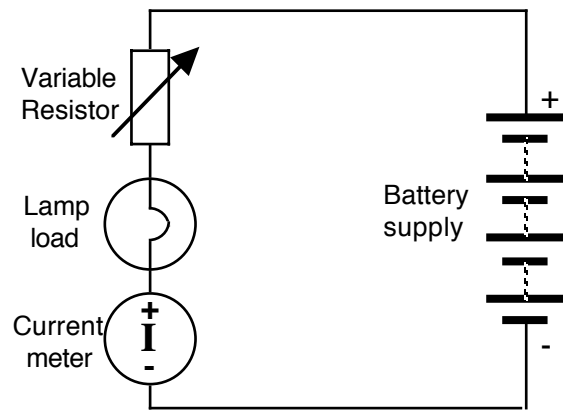
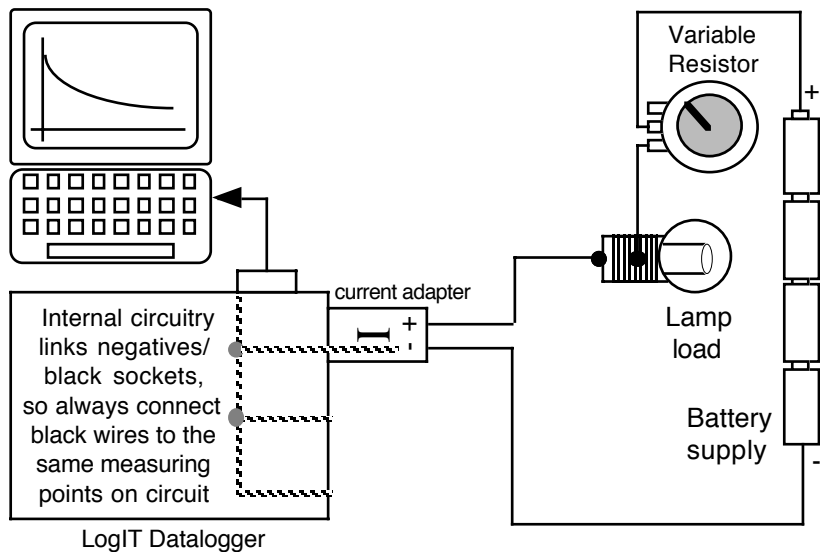


❑ **Measuring Current in a battery operated (isolated) circuit**

A typical circuit diagram for measuring the variable current through a lamp.



To apply this in practice using LogIT and a current adapter connect as follows:



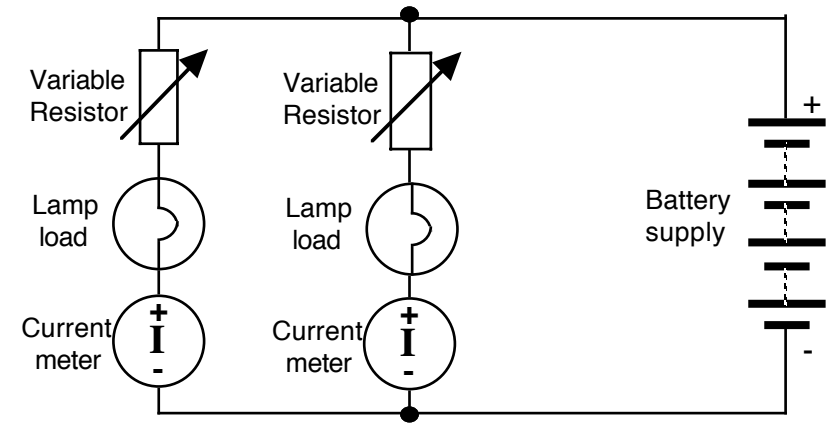
TIP Using an ac mains operated power unit instead of a battery

You could use a mains operated dc supply but beware of 2 potential problems:

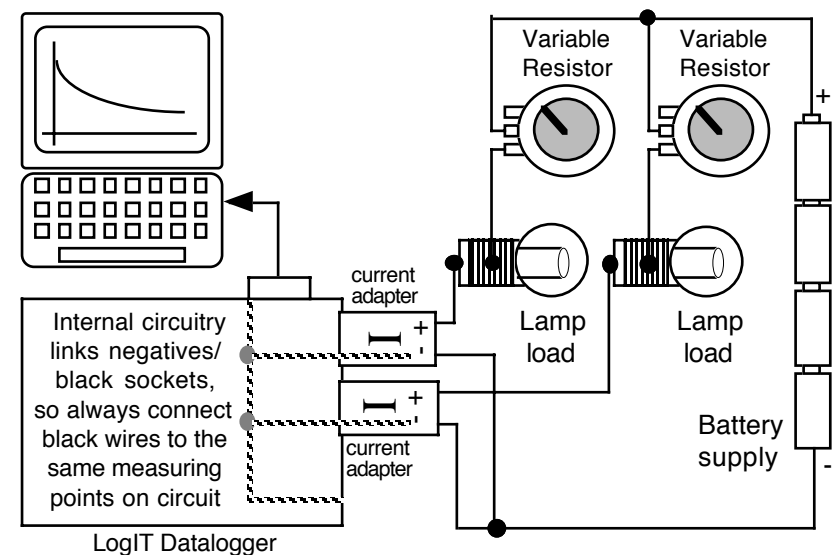
- 1) Any noise or ripple on dc supply will show interference on the display/graph.
- 2) You need to ensure that the supply is a double-insulated type otherwise a Common Earth Return could cause a problem with the 'hidden' earth loop connection back into LogIT via the computer's earth. You could use a remote LogIT to store data while disconnected from the computer, then download later

❑ **Measuring Two Currents in a battery operated supply circuit**

A circuit diagram for measuring current flow in 2 parts of the same circuit



This is how you would wire this circuit using LogIT and two current adapters:



Important When measuring more than one current in the same circuit you must always connect all of the black/negative terminals of the current adapters together because they are common inside LogIT (just as you have to connect both screen connections together when using a dual trace oscilloscope).