

Manual for the Student Ammeter



Max 30 V !

Operation

Measuring current with the Student Ammeter no. 3810.70.

1. Set the selection switch for AC or DC current. The AC setting provides RMS readings for alternating current circuits.
2. Break the circuit at the point where the current measurement is desired.
3. Determine the range. For both AC and DC measurements, current may be measured in one of three ranges: 0.05, 0.5 and 5 A. The range is selected by plugging into the appropriate input terminal.

NB:

To protect the meter, always choose a range that is higher than the highest current you might expect in the circuit.

4. For AC measurements: Plug one end of the circuit into the black input jack-terminal and the other into the red input jack terminal of the appropriate range.
5. The current may now be read on the meter with a full swing of the needle corresponding to the chosen range selection. E.g. on the 5 A scale, a reading of 3.0 indicates a current of 3.0 A, on the 0.05 scale this reading would indicate a current of 30 mA. AC readings show average current.

Specifications:

Range (AC and DC): 0-0.05, 0-0.5 and 0-5 A

Accuracy: $\pm 2\%$ of full scale.

Scale length: 72 mm

Sensitivity: 10 kOhm/V

Maximum DC

voltage drop: 0.23 V.

Overload protection: to 15 A or 30 V.