



THE LAB EQUIPMENT

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Product Name :

Mains Joule & Watt Meter

Product Code :

SLE/PHY/240



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Description :

The mains Joulemeter/Wattmeter is accurate, light and compact.

It is designed for class demonstration and also for student use.

The meter measures the energy or power delivered to a mains appliance.

Current transformers and sampling voltage transformer isolate the unit from the mains.

Built in timing function.

Determines the energy consumed by domestic appliance.

Compare the efficiency of different types of lamp bulbs.

Compare power consumption for lamp bulbs at different voltages (variable mains transformer unit required). Analogue outputs for datalogger or oscilloscope.

Technical Specifications :

Measurement range: 200W and 2KW full-scale reading for power measurement. 0 to 999,999 J or 0 to 999,999KJ for energy measurement.

Resolution: 0.5J/ 0.5W on the 200W range and 0.005KJ/ 0.005KW on the kW range.

Maximum current: 10A, protected by 10A fast blow fuse.

Input impedance: 1M Ω

Mains supply: 230V \pm 5%, 50Hz

Internal Fuse: 315mA (L).

External fuse: 10A fast blow (in IEC socket)

1V full-scale instantaneous power indication by a pair of 4mm meter output sockets

Energy Indication by six 7-segment LEDs

Accuracy: 3% and typically better than 1%

Linearity: 2% and typically better than 1%

Dimensions: 208 x 155 x 115mm (W x H x D).

Height including handle is 187mm.