Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Mains Joule & Watt Meter

Product Code :

SLE/PHY/240



Science Lab
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Description :

Mains Joule & Watt Meter (Product Code: SLE/PHY/240) is a compact electronic instrument used to measure the power drawn by, and the energy delivered to, a mains-powered appliance in school and college physics laboratories. Designed for both class demonstration and student use,it reads power on 200 W and 2 kW full-scale ranges and has a built-in timing function. This electronic lab instrument is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as part of its range of school physics lab equipment in India.

Specifications

Parameter	Detail
Measures	Power and energy delivered to a mains appliance
Power ranges	200 W and 2 kW full-scale reading
Energy ranges	0 to 999,999 J or 0 to 999,999 kJ
Resolution	0.5 J / 0.5 W on the 200 W range; 0.005 kJ / 0.005 kW on the kW range
Maximum current	10 A, protected by a 10 A fast-blow fuse
Isolation	Current transformers and a sampling voltage transformer isolate theunit from the mains
Input impedance	1 M?
Mains supply	230 V ±5%, 50 Hz
Internal fuse	315 mA (L)
External fuse	10 A fast blow, in the IEC socket
Analogue output	1 V full-scale instantaneous power indication on a pair of 4 mm meter output sockets, for a datalogger or oscilloscope
Energy display	Six 7-segment LEDs
Timing	Built-in timing function
Accuracy	3%, typically better than 1%
Linearity	2%, typically better than 1%
Dimensions	208 x 155 x 115 mm (W x H x D); height including handle 187 mm
Build	Light and compact
Product code	SLE/PHY/240
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Mains Joule & Watt Meter Used For?

The appliance under test is plugged into the meter, so students can read how many watts it draws
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