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Product Name :

Joulemeter, Student Digital

Product Code :

SLE/PHY/129



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Description :

Joulemeter, Student Digital (Product Code: SLE/PHY/129) is a digital energy meter used to measure the electrical energy delivered to a load in school and college heat and electricity practicals. Designed specifically for student use, it reads from 1 joule to 999,999 joules with 3% accuracy (1% typical) and has a built-in timer that starts and stops with the measurement. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Energy range	1 J to 999,999 J
Accuracy	3%, with 1% typical
Input voltage	0V to 15V AC, or 0V to 21V DC (maximum)
Maximum load current	10A AC/DC
Circuitry	Microprocessor, combined with precision voltage multiplier
Start button	Starts the timer and joulemeter together and powers up the load
Stop button	Stops the timer and joulemeter and disconnects input powerfrom the load
Display	2 x 16 character LCD
Power	9V DC mains adaptor, included
Dimensions	90 x 90 x 33 mm
Product code	SLE/PHY/129
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Student Digital Joulemeter Used For?

The Student Joulemeter sits between a low-voltage supply and the load, so students read the energy transferred directly instead of combining separate voltmeter, ammeter and stopwatch readings. It is most often used with an immersion heater in a metal block or calorimeter to find specific heat capacity, and for comparing the energy used by lamps, small motors and heaters.

Because one press of the start button powers the load and starts both the timer and the energy count, and the stop button cuts the power again, every group's readings begin and end at the same moment. Keep the input within 15V AC or 21V DC and the load current below 10A. That combination makes it a practical digital measuring instrument for calorimeter lab work.

Supplier

Jain Scientific Equipments Private Limited, trading as ScienceLab, supplies the Joulemeter, Student Digital from Ambala, Haryana to schools, colleges and institutions in India and

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