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Product Name :

Dual Range Ammeter

Product Code :

SLE/PHY/01A



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Description :

The Dual Range Ammeter is a moving-coil meter for direct current. It reads two ranges, 0–1 A and 0–5 A, on one 60 mm scale, so the same meter serves small student circuits and higher-current work. It has 4 mm sockets and a zero adjustment.

Dual Range Ammeter specifications

Parameter	Detail
Meter type	Moving-coil ammeter, DC only
Current ranges	0–1 A and 0–5 A
Scale	Single 60 mm scale for both ranges
Accuracy	2.5%
Overall size	125 × 80 × 80 mm
Connections	4 mm socket terminals
Zero adjustment	Yes
Product code	SLE/PHY/01A
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Experiments with the Dual Range Ammeter

Ohm's law. Connect the ammeter in series with a resistance wire, a rheostat, a one way key and a stepped power supply, with a voltmeter across the wire. Change the rheostat setting, record pairs of current and voltage, and plot the graph.

Series and parallel lamps. Wire two lamps in MES bulb holders, first in series and then in parallel, using crocodile clips and leads. Move the ammeter into each branch and then into the main line to show that the branch currents add up to the total.

Electrolysis of copper sulphate. Place the ammeter in series with a copper voltameter and hold the current steady with the rheostat. Weigh the cathode before and after a timed run and compare the mass of copper deposited with the charge passed.

Frequently Asked Questions About the Dual Range Ammeter

Why is the ammeter connected in series and never across a component?

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