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Product Name :

Analogue Ammeter

Product Code :

SCL1285/027



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Description :

Analogue Ammeter (Product Code: SCL1285/027) is a stationary moving-pointer meter fordirect current with three measuring ranges: 0–50 mA, 0–500 mA and 0–5 A. Each scale divisionequals 1/50 of the selected range's maximum, the pointer rests at a left-hand zero, and a zero-adjustment lets the teacher correct the rest position before a reading. Schools and colleges use it as the current meter in DC circuit practicals, and it forms one half of the ammeter and voltmeter pair that every school physics lab in India needs. The meter is built by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, for bench use in teaching labs.

Specifications

Parameter	Detail
Current type	DC
Measuring ranges	0–50 mA / 500 mA / 5 A
Scale division	1/50 of the maximum limit of the range in use
Zero position	Left zero indicator, with zero-position adjustment
Construction	Stationary (bench) instrument
Dimensions	100 x 100 x 140 mm

Typical Use

The ammeter is connected in series with the component under test, observing polarity, and the range is chosen to suit the expected current: the 50 mA scale for small currents through resistors and LEDs, the 500 mA scale for lamps and small motors, and the 5 A scale for heavier loads such as electromagnets. Together with a voltmeter, a rheostat and a DC supply, it makes up the core of an Ohm's law experiment kit in India's secondary and senior-secondary labs, where students plot current against voltage and calculate resistance.

Good practice is to start on the highest range when the current is unknown and step down until the pointer sits in the upper part of the scale, where the reading is most precise. Check that the pointer rests exactly on zero before switching on, using the zero adjustment if needed, and never connect the meter directly across a supply without a load in the circuit.

Manufacturer

Jain Scientific Equipments Private Limited produces this meter under its ScienceLab trade name at Ambala in Haryana, alongside a catalogue of electrical and physics teaching apparatus for institutions. For more on the company, see the company profile.

Related Lab Equipment

A DC current meter is only one part of the circuit; these items complete a typical practical: