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Product Name :

Current Indicator LED

Product Code :

SLE/CH/117



Science Lab
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Description :

The **Current Indicator LED** (Product Code: SLE/CH/117) is a light-emitting diode indicator used to show, at a glance, whether an electric current is flowing in a circuit. In a chemistry classroom it is most often connected in series with a solution or a simple cell, so students can see immediately whether a liquid conducts or whether a cell is producing current. It is a simple companion to any electrochemical cell kit school laboratories use, and it is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Key Details

Parameter	Detail
Type	LED current indicator
Purpose	Gives a visual signal when current flows through the circuit
Suitable for	Classroom circuits, conductivity-of-solutions tests and simple electrochemistry demonstrations
Electrical ratings	Available on request — please confirm before ordering

Typical Use

A common practical places the indicator in series with a low-voltage supply and a pair of electrodes dipped into different liquids. Tap water, salt solution, sugar solution and dilute acid can be tested in turn: where the LED lights, the liquid contains mobile ions and conducts; where it stays dark, it does not. Comparing how brightly the indicator glows gives a quick, qualitative sense of stronger and weaker electrolytes before students move on to measured readings with a meter. The same indicator can confirm that a home-made cell, such as two different metals in an electrolyte, is actually delivering current.

Like all LEDs, the indicator conducts in one direction only, so if it fails to light in a working circuit, reverse the connections before assuming there is no current. Use low-voltage supplies, keep connections dry and away from the liquid being tested, and rinse the electrodes between samples to avoid carry-over. It is a handy first step before setting up the electrolysis apparatus India schools use for decomposing solutions, because it shows students that current is flowing before products begin to form.

Manufacturer

The Current Indicator LED is manufactured by **Jain Scientific Equipments Private Limited**, which operates under the brand **ScienceLab** from Ambala, Haryana, India. The company supplies laboratory equipment to schools, colleges and technical institutes. Find out more on our company profile.

Related Chemistry Lab Equipment

Equipment used in the same conductivity and electrochemistry practicals: