



Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Trainer For Experiences On Hydrogen Fuel Cells

**Product Code :**  
LBNY-0005-18400018



#### **Description :**

Complete with connecting cables, experiment manual and software for data acquisition and display. Trainer for the theoretical practical study of the hydrogen based fuel cells energy.

#### **Training Objectives:**

- Determining characteristic curve of solar panel
- Voltage controlled automatic measurements
- Determining characteristic curve of electrolyser
- Study of a fuel cell stack up to ten cells
- Determining fuel cell efficiency
- Determining decomposition voltage of water
- Producing and storing hydrogen
- Learning about Faraday's laws
- Determining characteristic curves of fuel cell
- Monitoring single cell stack voltages at your PC
- Power controlled automatic measurements
- Long term measurements at your own PC
- Fixing the output at different operating points of the fuel cell stack

#### **Technical Specification :**

The trainer includes: PEM fuel cell stack 10 (ten cells), fuel cell monitor software, hydrogen storage tank, electrolyser, power supply, fan, electric load (lamp), solar module and 2 modules with lamps for the solar panel.

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**Specifications:**

Electrolyser: 15 W

Fuel cell

Solar module: 4 V / 3,3 A

Gas storage: 80 cm<sup>3</sup>

Power (10 cells): 2 W

Power per cell: 200 mW

Power supply: 6 Vdc / 3 A

Lamp: 4.4 W

Monitoring software.



**Laboratory Instrument India**