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Product Name :
Fuel Cells Systems Trainer

Product Code :
LBNY-0005-18400020



Description :

Fuel Cells Systems Trainer has been designed for the study of fuel cell systems. It is safe and easy to be operated. It teaches their engineering principles and it allows performing a set of experiments for educational purposes.

Training Objectives:

Fuel Cells Systems Trainer is very flexible, modular and suitable for the understanding of basic principles as well as more complex technology concepts.

It allows performing the following experiments:

Familiarize yourself with the trainer

Calculation of the energy efficiency of the (Proton Exchange Membrane) PEM Fuel Cell

Performance of the (Proton Exchange Membrane) PEM Fuel Cell with fixed loads, with DC/DC Converter

Performance of the (Proton Exchange Membrane) PEM Fuel Cell with fixed loads, without DC/DC converter

Recording of the current/voltage characteristic curve of the (Proton Exchange Membrane) PEM Fuel Cell with variable load.

Technical Specification :

Fuel Cells Systems Trainer includes the following modules:

Load, with one halogen lamp, 12 V, 50 W, and one LED lamp, 12 V, 3 x 1 W

Variable logarithmic rheostat, 1.5 Ohm 17 Ohm, 100 W, $I_{max} = 8$ A Battery

DC/DC converter, output 12 V, 8 A

225 NI aluminum storage canister

Instruments module, containing 4 multifunction meters and 4 LCD displays.



Laboratory Instrument India