

H2 & FUEL CELL TRAINING SYSTEM



FEATURES

- H2 & Fuel Cell Training System offers the entire spectrum of current Fuel Cell technology for the technical education.
- Solar module, Electrolyzer and Fuel Cell permit the assembling and examination of a Solar-Hydrogen cycle.
- H2 & Fuel Cell Training System includes topics like working principles, efficiency and characteristics curves of Electrolyzer and Fuel Cell.
- Beside the PEM-Fuel Cell, it also contains an Ethanol-Fuel Cell in order to compare the different technologies.
- H2 Charger and H2 Storage allow for the easy generation and storage of hydrogen.
- H2 & Fuel Cell Training System includes all ancillary equipment in the robust aluminum suitcase.

EXPERIMENTS

- What does an Electrolyzer do?
- Characteristics of an Electrolyzer
- Hydrogen production with the H2 Charger
- Hydrogen storage with the H2 Storage technology
- Characteristics of a PEM-Fuel cell
- Characteristics of an Ethanol-Fuel cell
- Faraday and energy efficiency of the Electrolyzer
- Faraday and energy efficiency of the PEM-Fuel Cell
- Parallel- and series connection of PEM-Fuel Cells

COMPONENTS

- Base Unit Large
- Potentiometer module
- Motor module without gear
- Solar module 2.5 V, 420 mA
- H2 Charger
- H2 Storage
- Gas storage module
- Aluminium case
- PEM-Fuel Cell module
- Electrolyzer module 2.0
- Ethanol Fuel Cell module
- Propeller
- Silicone tube 2 mm
- Lamp with table clamp
- Safety test lead, 50cm, red
- Safety test lead, 50cm, black
- Safety test lead, 25cm, red
- Safety test lead, 25cm, black
- Safety socket adapter SA 4000 red
- Safety socket adapter SA 4000 black
- Digital Multimeter
- Valve for H2 Storage