

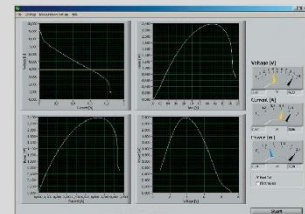


HYDROGEN FUEL CELLS TRAINER



DL HYDROGEN-A

Trainer for the theoretical-practical study of the hydrogen based fuel cells energy.



Complete with connecting cables, experiment manual and **software for data acquisition and display**.

TRAINING OBJECTIVES

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

Average training hours: 5h
Approx. packing dimensions: 1.03 x 0.50 x 0.97 m.
Net weight: 35 kg.

TECHNICAL SPECIFICATIONS

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

Specifications:

- Electrolyser: 15 W
- Fuel cell
- Power per cell: 200 mW
- Power (10 cells): 2 W
- Solar module: 4 V / 3,3 A
- Gas storage: 80 cm³
- Lamp: 4.4 W
- Power supply: 6 Vdc / 3 A
- Monitoring software

The following accessories are also included: water bottle (with distilled water), protective goggles, silicone tubing and textbook.