



HELAGO-CZ, s.r.o.
Commercial Register maintained by the Regional Court in Hradec
Králové
Section C, File 17879
Kladská 1082
500 03 Hradec Králové 3
Company ID: 25 96 39 61, VAT: CZ 25963961
Phone: 495 220 229, 495 220 394
Fax: 495 220 154
GSM gate: 602 123 096
E-mail: info@helago-cz.cz
Web: <http://www.helago-cz.cz>

leXsolar-H2 Basic (Set of 12 psc)

Order code: **5501.1230**



Cena bez DPH

4.120,00 Eur

Price with VAT

4.985,20 Eur

Parameters

Subject

Fuel cells and "H" technology

Quantitative unit

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- What is a fuel cell and what does it do?
- What is an electrolyzer and, using this device, how can water be broken down to its component elements?
- What can be powered with a fuel cell?

These **questions** and many others **can be answered doing the experiments with the leXsolar-H2 Basic**. All experiments are designed in a qualitative way for young students from Elementary and Junior High School. The product is equipped with a reversible PEM-fuel cell combining electrolyzer mode and PEM fuel cell mode in one handy and robust unit.

Note: For using this product you additionally need the leXsolar-Minikit Basic in primary school and the leXsolar-Kit Basic in Junior High School, each of which contains all necessary accessories.

Experiments



- Converting muscle power to electrical energy
- What is an electrolyzer?
- How water can be split?
- What is a fuel cell?
- Powering the motor with a fuel cell
- Powering the buzzer with a fuel cell
- IV-characteristics of an electrolyzer
- IV-characteristics of a fuel cell
- Faraday and energy efficiency of an electrolyzer
- Faraday and energy efficiency of a fuel cell

List of components:

- 1 x 1100-26 Light bulb module
- 1 x 1800-15 Distilled water (100 ml)
- 1 x 1230-01 Carton 1230
- 1 x L2-06-067 Reversible Fuel cell
- 1 x L3-01-179 Insert H2 Basic 1230
- 1 x L3-03-208 Layout diagram H2 Basic 1230
- 1 x L3-03-258 Info sheet initial startup

Extras needed:

- 1 x 2030 leXsolar-Minikit Basic
- or

1 x 2031 leXsolar-Kit Basic