



Product Description:

Solar Hydrogen Car and Gas Station Demo set provides the perfect illustration of the future technology of hydrogen powered vehicles! With the future looking greener and cleaner this demonstration model will easily illustrate all of the best characteristics of hydrogen to students, colleagues, and friends alike!

Diminishing resources, more severe environmental impacts and the ever increasing demand for energy force us to reconsider the structure of our energy supply system. Automobile industries and energy companies are increasingly investing in hydrogen and solar technology everyday due to renewable energies offering longer sustainable solutions than our current oil-based alternative. This fascinating technology combines a sound energy supply with minimal impact on our natural resources. The solar module provides power to the electrolyser. The electrolyser will then produce hydrogen gas which can be stored in the hydrogen gas station. The hydrogen gas can be fed into the PEM fuel cell stack, which will supply electricity to drive the fuel cell car forward. Hydrogen is produced and stored in the Hydrogen Gas Station. The Fuel Cell Concept Car is fueled with hydrogen, and realistically demonstrates the technology of future fuel cell vehicles. The equipment can be used to demonstrate the operation of PEM (Proton Exchange Membrane) fuel cells and PEM Electrolyzers.

Feature:

Car and Gas Station Demo:

- Demo Car
- Fuel Cell Stack (two cells)
- Electrolyzer
- Hydrogen Storage Tank
- 1-Panel Solar Module
- Demo Gas Station
- Instructional Textbook

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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DEMO Vehicle Car:

The PEM Fuel Cell generates electrical energy from hydrogen and oxygen. It is based on PEM technology, which is the most widespread technology used in the development of fuel cell applications, e.g. for motor vehicles or stationary power supply systems.

- Operating Pressure: 0 - 20 mbar
- Dimensions (H x W x D): 2.8" x 4.1" x 9.6" (70 x 105 x 245 mm)
- Weight: 11.3 oz (320 g)

DEMO Gas Station:

- The Hydrogen Gas Station uses solar power to run an electrolyser and produce hydrogen gas. This gas then feeds the air-breathing double fuel cell on board the car, producing electricity!
- Electrolyser: 1.5 W
- Hydrogen Gas Storage: 10 cm³
- Hydrogen Production: 5 cm³ / min
- Solar Module: 2000 mV DC / 600 mA
- Active Area per Cell: 17 x 17 mm

Instructional Textbook:

- The textbook contains information about the technology and instructions for a variety of experiments

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