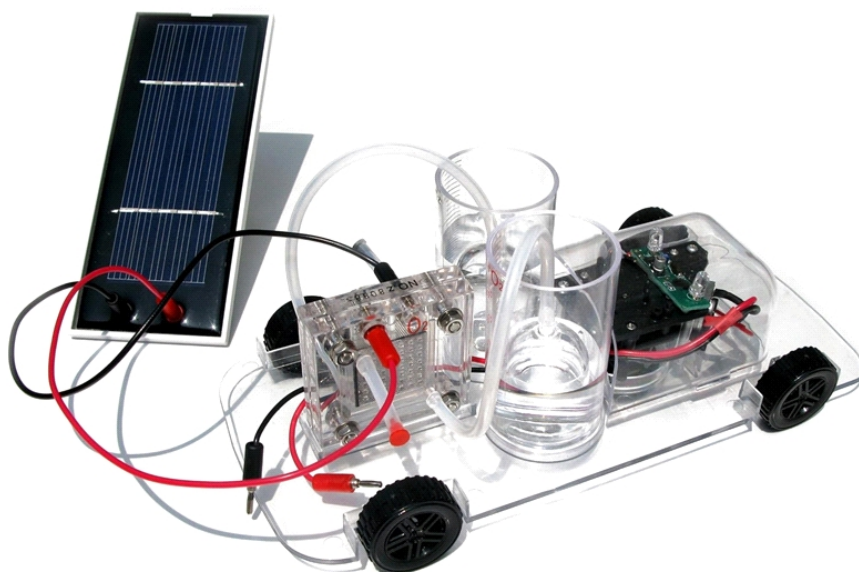




Fuel Cell based Car Demonstrator

Nvis 6007C



Renewable energy education and technology has become a necessity at all levels. In the last few decades, many countries around the world have already started working on renewable energy education and skills. Hydrogen offers the promise of a sustainable energy source for the future of transportation, and the potential to greatly reduce CO₂ emissions.

Nvis 6007C Fuel Cell based Car Demonstrator enables students to discover the principles behind the real-scale fuel cell vehicles currently being rolled out across the world. It uses a reversible Polymer Electrolyte Membrane (PEM) fuel cell that combines electrolysis and power conversion into one single device. A reversible PEM fuel cell first electrolyzes water to separate oxygen and hydrogen molecules. This hydrogen is then converted into electrical energy to power the car. It has inbuilt sensor that makes it capable to sense an obstacles and change its direction automatically.

Features

- Standalone operation.
- Demonstrates fundamental behind electrolysis and the decomposition of water into oxygen and hydrogen.
- Understanding Conservation of energy and energy transfer.
- Electrolysis Mode - Generating Hydrogen and Oxygen from Water.
- Fuel Cell Mode - Generating Electricity from Hydrogen and Oxygen.
- Car with built-in sensor to capable of avoiding obstacles on its own.
- Includes solar panel for powering electrolysis.
- Rich learning Material.

Setup included

- Car Chassis with LED light & motor.
- 0.75 Watt Solar cell.
- Reversible (PEM Type) Fuel cell.
- 30mL Hydrogen tank.
- 30mL Oxygen tank.
- 2 x 2mm Connecting leads.
- Inner Gas containers.
- Battery pack with connecting leads (requires 2 X AA batteries).
- Plastic plug pins for fuel cell.
- Transparent silicon tubing.

Designed & Manufactured in India by

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