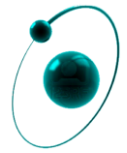
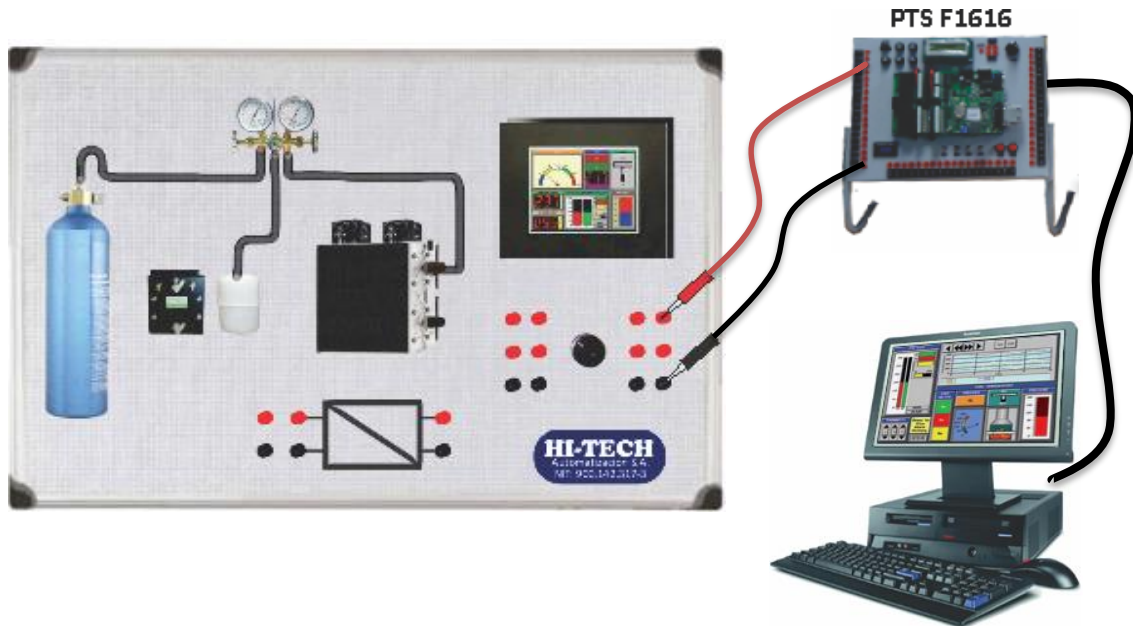


# Hydrogen Cell Trainer



## LT - AE - FC



A new training system:

- All the technology behind the fuel cell
- Electricity from hydrogen and oxygen.
- Voltage regulation applied on real loads.
- Parasitic load monitoring.
- Fuel efficiency testing and simulations.
- Study of vehicles with Fuel cells..
- Study of prospective Environmental advantages and applications.

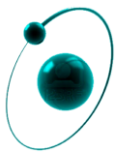
### Overview:

The need to eliminate all the harmful contaminants as a result from the combustion has generated new interests on research for clean energy production processes.

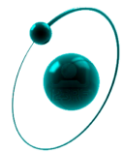
Fuel cells are similar to batteries but they use other chemicals or cleaner combustion process.

This trainer uses the hydrogen cell to help the knowledge on this technology.

- Includes a touch screen to visualize operational parameters.
- Store data process without the need of computer memory.
- All data can be extracted or download to a pen drive.
- Fully compatible with our alternative energy system (Eolic and Solar).
- Electronic signals are available on connectors.
- Excellent tool for education and research.



# Hydrogen Cell Trainer



## Technical Specifications

- **Power Supply:** 110 VAC, 3 A.
- **Dimensions:** 1,50m x 1,50m x 0,7m.
- **Weight:** 30 kg.

## Fuel Cell

- **Cell type:** PEM.
- **Number of cell:** 24.
- **Power:** 100 W.
- **Duty:** 14.4 V @ 7,2 A.
- **Reactive:** Hydrogen and air.
- **Max de operational Temperature:** 65°C.
- **Humidification:** Auto humidified.
- **Flow:** 4L/min.
- **Hydrogen Purity:**  $\geq 99,99\%$ .
- **Efficiency:** 40% @ 14v.
- **Over current protection:** 12 A.
- **Low voltage protection:** 12 V.
- **Over temperature protection:** 65°C.

## Hydrogen

- Small canister.

## Touch screen

- **Screen:** 5" touch, full color.
- **Memory:** Extractable with usb port
- **Measurements:** Current, voltage, pressure, flow, temperature y parasite load.
- **Signals:** Available on connectors.

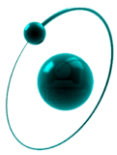
Optional: PTS F1616.

Optional: Computer with SCADA software.

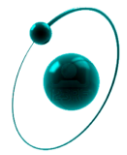
## Includes:

- Fuel Cell 100 W PEM 14v 7.2A.
- Fans.
- Manifold.
- Hydrogen Tank (500vi) MH10 Metal Hydride.
- Converter AC/DC 12V 8A.
- Local Lamp 12V 50W y 3 x 1W.
- Variable rheostat 100W (1.5 $\Omega$  a 17 $\Omega$ ).
- Battery 12V20A.

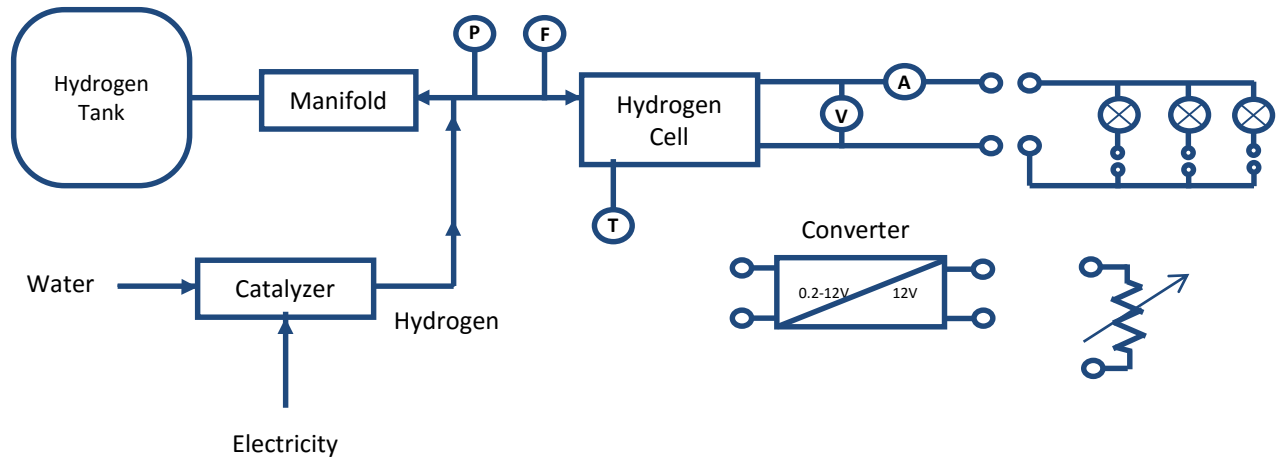




# Hydrogen Cell Trainer



- Screen 5" Full color:
  - 2 Digital Voltmeter DIN rail, voltage output.
  - 1 Digital Ammeter DIN rail, voltage output.
  - 3 Displays, DIN rail, temperature, pressure y flow.
- Pressure transducer.
- Temperature transducer.
- Hydrogen flow transducer.
- Operator manuals



## Other Products

- Climate change Fitotrón.
- Algae Biofuel Pilot Plant.
- Bioethanol Plant.
- Inverter Pendulum.
- Speed, position and generation plant.
- PLC trainer (Generic, AB, Siemens, etc.).
- Solar heating system.
- Hydrogen cells trainer.
- Solar and Eolic energy trainer.
- Water supply plant.
- Motor-generator plant.
- Drives.
- SCADA.
- Drives.



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