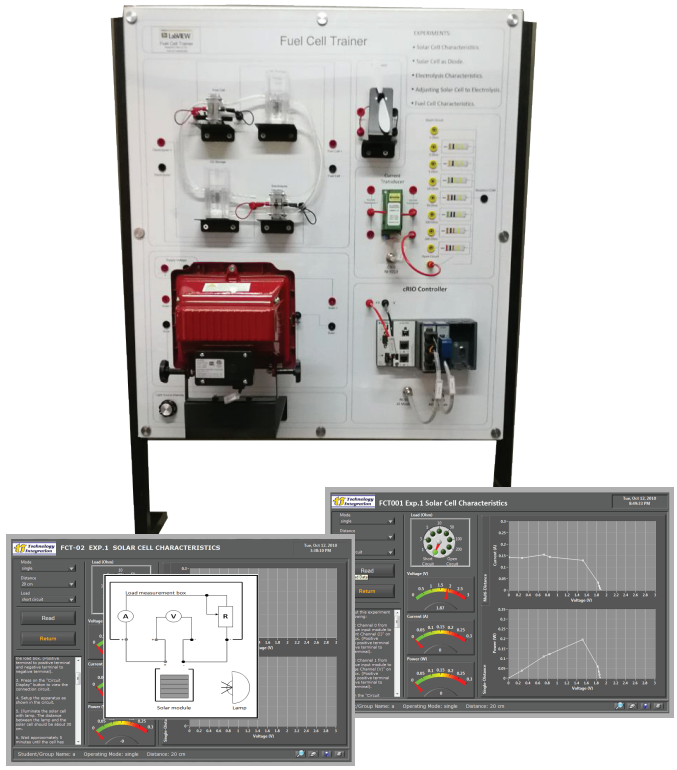
Fuel Cell Trainer

SAAB RDS
TECHNOLOGY ENABLER

Curriculum Coverage

- Solar Cell Characteristics
- Solar Cell as Diode
- Electrolysis Characteristics
- Adjusting Solar Cell to Electolysis
- Fuel Cell Characteristics



Features

- Computer based Fuel Cell Trainer
- Includes all required sensors to measure the light intensity, temperature, voltage and current
- For use with National Instruments Data Acquisition & Control hardware

Description

Fuel cells are one of the key technologies of the 21st Century. Today manufacturers worldwide are actively engaged in developing fuel cells for use in mobile devices, automobiles and stationary power plants.

The Fuel Cell Trainer setup is designed as a quick and easy way to introduce the concepts of energy conversion and fuel cells. This unique package allows instructors to quickly demonstrate the concepts of using solar or kinetic energy as a power source for an electrolyser, which will in turn, produce hydrogen that will be used to feed a fuel cell, from which a load will be powered. A great tool for exposing students to the technologies of tomorrow and introducing “green energy” alternatives.

Components

- 500mW Solar Module
- 500mW PEM Fuel Cell
- 1.16W PEM Electrolyser
- 10mW Fan
- Banana Plug Cables

NI[1] Compatible Platforms

- Compact RIO
- Others[2]

1. NI: National Instruments
2. Please check with us about compatibility of other NI Platforms

Required NI Modules

- cRIO: NI-9219, NI-9263

Software

- User friendly with easy to use interface
- Developed using NI LabVIEW package
- Built-in safety features & limitations, and designed for students’ use

Ordering Information
Fuel Cell Trainer

FCT001 - A - B

NI* Platform	Power
1... cRIO	1... 220 VAC

*Purchase NI Hardware Separately

Authorized Distributor

For complete product specifications, pricing, and information:
e-mail: info@saabrds.com / website: www.saabrds.com