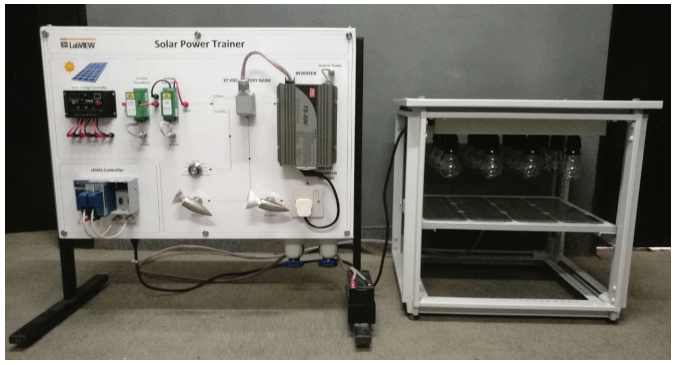
Solar Power Trainer

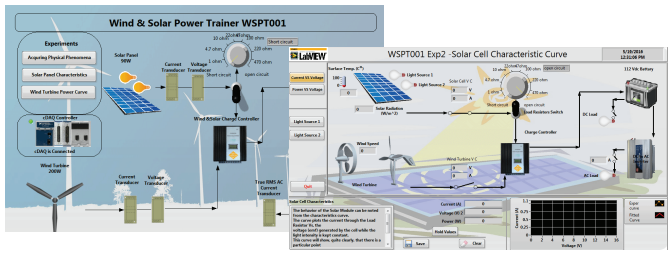
Curriculum Coverage

- Acquiring Physical Phenomena:
  -To introduce the principles of computer-based signal acquisition of physical phenomena.
  -To acquire signals from different types of sensors, including solar radiation, temperature sensors, current and voltage transducers

- Solar Panel Characteristics:
  -To investigate the behavior of a Solar Panel when exposed to variable light intensities.
  -To obtain the Current VS Voltage curve of the solar panel.
  -To obtain the Current VS Voltage curve of the solar panel under different temperatures (Day and Night).
  To obtain the Power VS Voltage curve of the solar panel.

- Determining the efficiency of a solar panel





Features

- Computer based Solar Power Trainer
- Includes all required sensors
- For use with NI's Data Acquisition & Control hardware

Components

- PV Panel
- Inverter
- Temperature Sensor
- Solar Radiation Sensor
- Loads
- CTs & VTs

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-9208, NI-9476, 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
Solar Power Trainer

SPT001 - A - B

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

*Purchase NI Hardware Separately

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