

Solar/Wind Energy Training Systems

46120

FESTO

LabVolt Series

Datasheet



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Table of Contents

General Description	3
Courseware	3
Topic Coverage	3
Features & Benefits	3

General Description

The Solar/Wind Energy Training Systems form complete hybrid-energy training systems. These training systems demonstrate how wind turbines and solar cells are being used in the consumer and industrial markets to supplement the world's power needs. They constitute a modular program that covers the history, fundamentals, installation, operation, maintenance, and servicing of solar energy and wind energy systems.

The program explores sunlight and wind as energy sources that can be used to help reduce dependence on non-renewable fuel sources. It helps students gain a complete perspective of the field by studying the economics, efficiency, and low-environmental impact of producing energy from non-polluting, renewable sources.

All Solar/Wind Energy Training Systems are made from real-world components that are used in industry. These are the same components that students see in their homes, schools, and workplaces. All training systems are engineered for both ease of use and durability, and are manufactured to the highest quality standards.

Courseware

The courseware for each of the topics consists of a student manual and an instructor guide, as well as textbooks titled Photovoltaic Systems, by James P. Dunlop, and Wind Power, by Paul Gipe. Each student manual consists of a series of job sheets. The job sheets include a description of the objectives, a list of required equipment, a list of safety procedures, and a list of steps required to attain the objectives. To obtain detailed information about covered topics, students should refer to the textbooks or ask their instructor to guide their learning process.

All student manuals, instructor guides, and textbooks are fully illustrated and color printed. All student manuals, instructor guides, and electrical drawing sets are available as .PDF files on a CD-ROM (P/N 86514-A0). A Facilitator PowerPoint Presentation and a Facilitator Guide containing instructional strategies and activities are also available as options.

Topic Coverage

- Energy Fundamentals
- Trainer Familiarization and Safety
- Solar Module
- Wind Turbine
- Solar/Wind Systems
- Going Green

Features & Benefits

- Includes everything required to operate as a stand-alone, hands-on training system
- Made with high-quality components currently used in residential, commercial, and industrial applications
- Easy and safe to use, durable, and manufactured to the highest quality standards
- Perforated work surfaces to allow custom configurations
- Comprehensive curriculum consisting of fully illustrated student manuals and instructor guides
- CSA/UL certified version available
- Identified wires allow students to save time
- Networked data acquisition available as an option

Description

Manual number

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

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