







ELECTRICAL ENGINEERING

Electronic Power Program

- > SAVE SPACE MEET YOUR BUDGET
- > EXPAND YOUR EXPERIMENTAL FACILITIES

WITH ANY OF HAMPDEN'S SELECTION OF ROTATING MACHINES.



HAMPDEN'S ROTATING MACHINES TRAINING EQUIPMENT CAN BE EXPANDED TO INCLUDE COMPUTER DATA LOGGING AND COMPUTER CONTROL FROM ANY PC OR MACINTOSH SYSTEM. A SINGLE DATA CONNECTION BRINGS STATE-OF-THE-ART TRAINING "ON-LINE" IN YOUR LABORATORY, GIVING YOU THE MAXIMUM TRAINING IN MOTORS AND MACHINES THEORY AND CONTROL.

HAMPDEN HAS A LARGE SELECTION OF ROTATING MACHINES ALONG WITH OTHER ELECTRICAL **ENGINEERING UNITS TO SUIT YOUR EVERY NEED!**

See back cover for other Electronic Power Program models

Digital Systems

ELECTRICITY & ELECTRONICS TRAINING FROM THE LEADER IN EDUCATIONAL TRAINING EQUIPMENT

Hampden Solderless Hardware Kits

♦ All components are Pre-Mounted for Fast Experiment Connection



- No Soldering Snap-Leads to all components
- Secure Set-ups on Velcro work surface
- Steel Storage Trays & Lockable Case



Hands-On Training

- Assessment System Electronics Workbench
- Instrumentation
- PowerPoint Plus
- Math Tutorials
- Circuit Viewer

ELECTRICAL TECHNOLOGY

Power Electronics

THE HAMPDEN MODEL HMD-100-CM CONSOLE IS A MUST FOR YOUR ELECTRICAL LAB.

Complete with

- **♦** AC-DC Power Supplies
- ◆ DC Instrumentation.
- **♦** Interconnecting Cords
- ◆ AC Instrumentation
- ◆ Single-phase Wattmeter Panel
- ◆ Locked Storage Compartment

A wide selection of MOTORS and GENERATORS can be added to this unit. This versatile Motor Console interacts with a variety of:

- AC Drives
- Stepper/Servo Drives

Hampden MODEL H-VFD-100C Variable Frequency Drive Trainer

This unit consists of 2 sections,

(1) basic adjustable frequency

drive with reversing capabilities,

and (2) isolated feedback or

voltage following capabilities.

controls the speed of

to 1/3 horsepower.

three-phase motors rated

- Loads AC Controls
- DC Drives
- Measuring Devices Transducers
- DC Controls







Quadrant DC Speed Controller is a fullwave regenerative drive capable of operating DC, PM or Shunt Motors in a bidirectional mode.

Fifteen test points on the front permit analysis of circuit operation while five fault switches provide troubleshooting experience

Power Systems

SIMULATING A POWER SYSTEM FROM GENERATION TO UTILIZATION.

The program features:

- **▶**Controls
- **▶**Instrumentation
- **▶**Transformers **▶**Circuit Breakers
- **▶**Various Loads >Relays

Using the Hampden Power System Program, a student engineer or technician can readily conduct power system modeling in order to:

- Monitor and Control Power Generation
- Transmit and Distribute Power
- Load the System
- Investigate Protective Relaying



MODEL H-TLS-100 Transmission Line Simulator represents a high-voltage three-phase transmission line. Four different line lengths are simulated via

the selector knob.

Hampden offers a complete series of accessory equipment oriented toward the teaching of transmission line applications See back cover for other Transmission Line models available

ELECTRICAL ENGINEERING



Hampden MODEL H-REM-ACDC-MC

Motor Controller provides students with the basic understanding and principles of AC and DC Motor Control.

Students gain practical experience in both application and electrical interfacing of components and their reaction to each other.

Hampden MODEL H-EWC-300AX

Rotating Machine Mobile Console brings all the facilities required for a complete motors study program into one mobile console. Built around the Hampden series of 3HP machines, the console adds:

- AC Metering
- DC Metering
- > VFD Controls
- > SCR Controls
- Resistive Loading
- Reactive Loading
- Capacitive Loading
- Inductive Loading
- Transformers





Hampden MODEL H-TTC-PIL-1 Transformer Learning Center provides, in one convenient mobile console, all of the following:

Instrumentation

- ❖ 5-Range AC Ammeters (2)
- Single Phase Wattmeter (1)

Loading

- Resistive Loads (3)
- Capacitive Loads (3)
- 4-Range AC Voltmeters (2)
- 6-Range Wattmeter (1)

Inductive Loads (3)

Hampden MODEL H-TTD-1 Transformer Trainer Demonstrator consists of:

- Component Panel
- Instruments
- Inductance Loads
- Variable AC Power Supply
- Transformers
- Resistance Loads
- Capacitance Loads
- Mobile Stand





Hampden is committed to providing industry-leading technology.

For the latest from Hampden, visit our home page at http://www.hampden.com or e-mail us at sales@hampden.com

