

Smart Grid Trainers

Educational Training Equipment for the 21st Century

Bulletin 190-1C

190 Series Smart Grid Trainers

Purpose

The **Hampden 190 Series** of Smart Grid Trainers have been developed to educate students with the technology being used in the field of electrical power generation and distribution. Each individual module will demonstrate a key section of the power grid. When the individual modules are combined a modern smart grid is created.

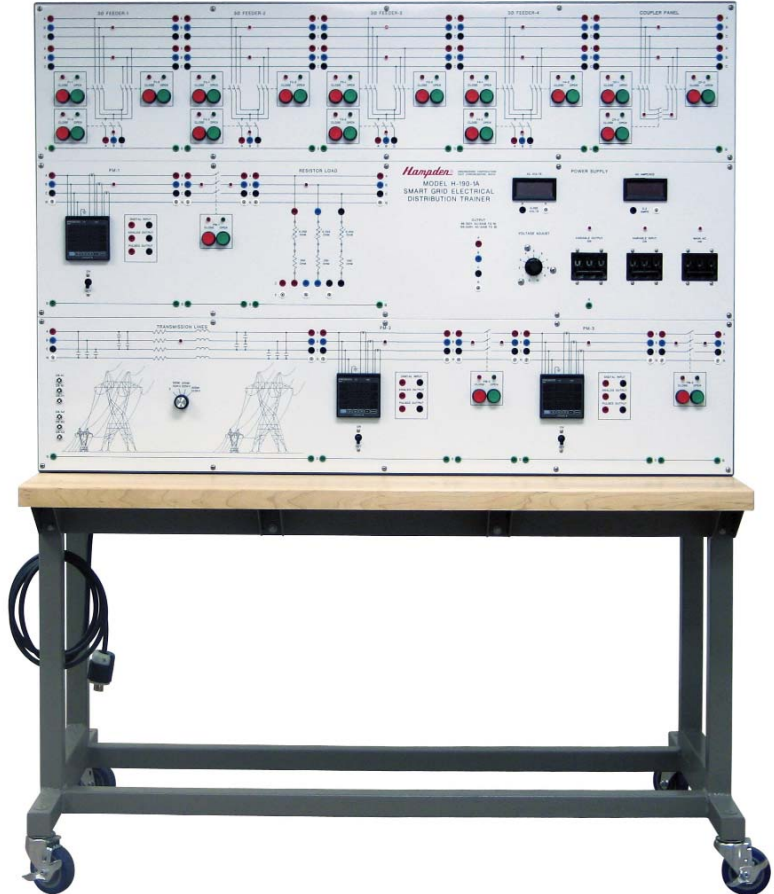
The Hampden **Model H-190-1A** Smart Grid Electrical Distribution Trainer is focused on the area of power distribution. Covering electric power distribution, transmission lines and line protection.

Features

- Three Phase Feeder Sections (4)
- Three Phase Coupler Section
- Transmission Line Section with (3) Line Distances
- Resistance Load Section with Wye-Delta Configurations
- AC Power Supply Section
- Three Phase Power Meter (3)
- H-LTCS Laptop Computer
- Manuals
- Software (SCADA)
- Interconnection Cables
- Color Coding

Topics Covered

- Basic Three Pole Circuits
- Busbar Switch Over
- Algorithm Preparation
- Busbar Coupling
- Voltage Increases
- Voltage Drops
- Power Loss
- Local & Remote Operation
- Phase Shift
- Overcurrent Protection
- Circuit Breaker Behavior



Hampden Model H-190-1A
Smart Grid Electrical Distribution Trainer
Dimensions: 75"H x 60"W x 32"D
Shipping Weight: 891 lbs.

All Hampden units are available for operation at any voltage or frequency

Hampden
ENGINEERING CORPORATION