



THE EASTERN SPECIALTY COMPANY

TRAINING SYSTEMS



FUNCTIONALITY

TESCO's Training Systems are built to your specifications to simulate various field conditions and aid in the training of field personnel in a full range of conditions and faults.

Fully customizable, TESCO's Training Systems can accommodate different meter forms and multiple meter sockets. These systems can be used to train new employees or refresh troubleshooting for senior meter technicians.

ABOUT

A typical Training System will include a number of meter enclosures, CT cabinets, and other hardware as specified by the customer that represents various meter forms and installations found in the field within the utility's coverage area.

Each system is energized with the appropriate single-phase or three-phase service potential and current. The main panels are controlled from a central console with a touch screen. The Training System can simulate standard, self-contained, or transformer rated services. Primary services can be simulated with certain potential restrictions.

Training System Simulation Examples:

- **Normal:** Connects the service power to the LINE side jaws of the meter socket

- **Inverted/Cogeneration:** Potentials on loadside and current 180° phase shift
- **Back-Feed:** Typical of residential system with backup generation
- **Ground Fault**
- **Low Impedance Faults**
- **Miswired Switch:** Can simulate a variety of different, incorrectly wired socket conditions
- **Missing Phases**
- **Open/Missing Neutral**
- **Line Side Faults**
- **Open Circuits**
- **Load Side Faults**
- **Swapped Potentials** (on Polyphase services)
- **Swapped Currents** (on polyphase services)

Available Services:

- 120/240 3-wire residential
- 120/208 3-wire network
- 120 2-wire
- 277/480 4-wire WYE
- 120/208 4-wire WYE
- 120/240 4-wire delta with wild leg
- 240 corner ground
- 240 open delta
- 230/400 4-wire WYE
- 347/600 4-wire WYE

Note: All socket positions are properly fused or protected so meter/power supply damage will not occur and operator safety is ensured.

All services are limited to 60 Hz.



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SPECIFICATIONS and FEATURES

- Power requirements for Training Systems are 120/208V 4-wire with Ground, 20A
- Customized meter forms for your utility's need
- All faults and services can be set via a centralized instructor's console.
- Fault conditions built per utility's specifications
- Concealed fault wiring to reduce student distraction during training
- Variable potential adjustments, $\pm 10\%$ (analog version) or full scale (digital version)
- Variable amperages, 0-100A balanced or unbalanced
- Reversed currents (180° phase shift)
- Power Factor options, unity and 50% (analog version) or 0-359 degrees (digital version)
- Meterman tool test options such as high/low impedance testers, phase rotations
- Test Switch/CT/PT wiring method training
- Main Console can independently energize each station on each panel with the appropriate potential and current, as specified by the utility.
- Main Console may include a large, flat screen monitor to aid in training and demonstration.
- Quad receptacle box mounted to the front of the socket panel to power other equipment separately from the internal power supply.
- Caster wheels included on all modules.
- Panels may include a front shelf with optional drawers and storage cabinets below the socket stations.
- Additional custom features may be included as desired (i.e. local power receptacles, USB charger ports, writing tops, drawers, storage compartments, etc.)

