



OPERATING INSTRUCTIONS –CATALOG NO. 1500 TRAINING BOARDS

Description

The Training Board is designed to create different problematic installation scenarios a meterman may encounter at an installation. The Training Board is comprised of three independent meter sockets (Forms 1S, 2S and 12S) mounted on the front panel (trainee side). The back of the Training Board has three control panels, one for each socket, with switches that will create the different scenarios which the trainee must troubleshoot.

A mains power disconnect switch is located on the lower right side.

Services Required: Electrical: 208/120VAC, 4-wire, 5A, 60Hz.

Functions and Controls

1. **Service Selector:**

This switch configures either a 120/240V 3-wire service to the socket or a 120/208V 3-wire service. Standard setting for 2S meter is 120/240 and standard setting for 12S socket is 120/208 3-wire.

2. **Invert Wiring Switch:**

In the NORMAL position this switch connects the service power to the LINE side jaws of the meter socket. In the INVERT position the service power is applied to the LOAD side jaws of the meter socket.

3. **Back-Feed 2 & Back-Feed 4 Switches:**

These switches will connect the service voltage present at the LINE side jaws to the LOAD side jaws to simulate a back-feed to the meter socket. Back-Feed 2 connects the A-phase line to the A-phase load jaw. Back-Feed 4 connects the B-phase line to the B-phase load jaw. The 1S training station has only one Back-Feed switch for A-phase connection.

4. **Ground Fault 2 & Ground Fault 4 Switches:**

These switches when placed in the FAULT position will connect the meter socket LOAD jaws to ground to simulate a ground fault. Ground Fault 2 connects the A-phase load jaw (socket terminal 2) to ground, and Ground Fault 4 connects the B-phase load jaw (socket terminal 4) to ground. The 1S training station has only one Ground Fault switch for grounding A-phase load jaw (socket terminal 2).

Caution

When performing Ground Fault Testing the circuit breakers should be placed into the OFF position.



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5. Load 2 & Load 4 Switches:

These switches will add a nominal 0.5A load to the meter socket. When Load 2 is placed in the LOAD position the 0.5 amp current is applied to the A-phase stator. When Load 4 is placed in the LOAD position the 0.5 amp current is applied to the B-phase stator. The 1S training station has only one Load switch, for A-phase.

Caution

When board is not in use LOAD3 and LOAD 4 switches should be placed in the NORMAL position.

6. Miss Wire Switch (only on 1S socket):

This switch will simulate the missing neutral wire at jaw 3 (socket terminal 3) of the socket. Without this connection the meter itself will not power up. Placing this switch in the MISSING position will open the connection to jaw 3.