

In reference to Step 2 of testing procedure. This step is necessary to assure the meter is set safely.

Ground Indication: One or more fault lights turn on. If a ground exists on one or more phase wires, the respective fuse will blow, allowing the fault lights to turn on. DO NOT SET METER.

Short Circuit Indication: Both fault lights turn on. If a phase to phase, short circuit exists, both fuses will blow and allow its fault lamp to turn on. DO NOT SET METER.

Backfeed Indication: One or more fault lights turn on. If an out of phase backfeed exists and is not detected in Step 1 one or more fuses will blow, allowing the respective fault lamps to turn on. DO NOT SET METER.

Phase & Neutral Wires Reversed Indication: Only the 120V safe light (right lamp) turns on. If a wiring connection error is made resulting in the phase and neutral wires being interchanged, a nominal 120 volts will exist across the load terminals of the tester and allow only the 120 volt lamp to turn on. DO NOT SET METER.

Single Phase Socket Tester Installation/User Manual



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Testing Instructions

Step 1:

Place Single Phase Tester so the bottom (load) blades of the tester touch the bottom (load) of the meter socket.

1. If the safe lights DO NOT TURN ON, proceed to Step 2.
2. If safe lights turn on it indicates backfeed, internal jumpers in the socket, or reverse of line and load wires. DO NOT proceed to Step 2 and DO NOT set the meter.

Step 2:

Insert the Single Phase Tester into the meter socket.

NOTE: The customer's main switch should be open for this test. If this cannot be done, it is possible to blow the fuses in the tester and cause the fault lights to turn on provided an energized load of 30 amps or more is present. The meter installer should be aware of this possibility and should proceed according to utility policy.

1. If only one safe light or any fault lights turn on, DO NOT set the meter. After the problem is corrected, replace the blown fuses and repeat the testing procedure.
2. If both safe lights turn on and no fault lights turn on, it is safe to set the meter.

Analyzing the Results

In reference to Step 1 of testing procedure. This step is only necessary to assure correct metering.

Backfeed Indication: One or both safe lights turn on. If a 120V backfeed condition exists across the load terminals of the socket, the right hand safe light will turn on. For a 240V backfeed condition, both safe lights turn on. The Single Phase Tester will not detect a backfeed condition where both load terminals are fed by the same phase. DO NOT SET METER.

Internal Jumper Indication: One or more safe lights will turn on. This test will detect any devices that jumper or connect the line and load terminals in the socket. DO NOT SET METER.

Reversal of Line & Load Wires Indication: Both safe lights will turn on. If the socket box is wired incorrectly resulting in load wires connected to the bottom terminals of the socket, both safe lights will turn on. DO NOT SET METER.

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