

**OPERATING INSTRUCTIONS for
Model 0-50kV Phasing Voltmeter**

I. Selector Switch Position

C	Capacitance Tap Sensing
CP	Capacitance Tap Phasing
L	Line Sensing
LP	Line Phasing
BT	Battery Test

II. Proof Testing (ALWAYS TEST PRIOR TO USE)

- A. With meter probe, make contact with raised washer on tester (located on the bottom left side of tester).
- B. Depress washer until red indicator glows.
 1. If indicator does not come on or no meter deflection is obtained, do not attempt to use the meter!
- C. Look for meter deflection on “C” mode to move approximately one-half scale or more.
- D. Look for meter deflection on “L” mode to move approximately one-quarter scale.
 1. If little or no deflection is observed, check selector switch on opposite side of the meter to verify unit is in “C” or “L” function.
 - a. If not, turn switch to proper function and repeat test
 - b. **If there still is no deflection do not attempt to use unit.**
- E. To verify proper operation on phasing modes, turn selector switch (located opposite side of meter face) to appropriate position – “CP” or “LP”.
- F. Install phasing cable between meter probe and phasing probe.
 1. Make contact with stationary washer of tester using phasing probe tip and raised washer of tester using meter probe tip.
 2. Depress raised washer with meter probe until red indicator glows.
 - a. Observe the same precautions as above for red indicator.
 3. Look for meter deflection “CP” to be greater than full scale and a deflection on “LP” to be between 4 and 6kV.
 4. Depress raised washer with meter probe until red indicator glows.
 - a. Look for zero deflection on the meter.
 - b. If meter deflection is greater than 2kV on either range – do not attempt to use the meter.
- G. ***Always use proper safety equipment and follow your company’s procedures when making live measurements!***

NOTE: POSITIVE DEFLECTION ON THE METER DURING PROOF TESTER OPERATION DOES NOT PROVE ACCURACY OF CALIBRATION. THE VOLTMETER SHOULD BE SCHEDULED FOR ANNUAL CALIBRATION CHECKS AND INSPECTIONS FOR SAFETY AND RELIABILITY.

Live Line Testing Procedure

Note: Follow your company’s safety and testing procedure.

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IV. Battery Check

- A. Meter should indicate better than ½ scale deflection when in BT position.
- B. If the indication is less than ½ deflection, batteries should be changed.

Storage: Store in a cool dry place. Never store unit in damp or wet place, as condensation will decrease personal safety.

Operation Check: Always verify unit is functioning with proof-tester before and after each use.
(Follow operating instructions for tester.)

General Maintenance/Troubleshooting Guide

PROBLEM	POSSIBLE SOLUTION
Red indication light on tester dim or not on.	Replace 6-volt lantern battery
Meter deflection is low or does not move when red light on tester lights.	<ul style="list-style-type: none"> a. Check 6-volt lantern battery for low volts when loaded. b. Check battery tester on back of meter. c. Check switch position.
Meter deflection is low or does not move on "BT" switch position.	Replace 6-volt lithium battery on PC board inside large meter head.