
OPERATING INSTRUCTIONS FOR ALL MODEL VOLTAGE SENSORS

I. SELECTOR SWITCH POSITIONS

BT - Battery Test

C - "Capacitance Test"

The unit is equipped with two levels of direct contact. The number on the switch represents the maximum level of voltage applied in kilovolts

II. USES

- A. STB's Voltage Sensor satisfies two common applications called for in voltage detection.
 - 1. Voltage indication on the usual exposed bus-work and terminals.
 - 2. Provides a positive voltage indication on insulated cables that have a capacitance test point.
- B. This instrument offers three degrees of sensitivity.
 - 1. "Capacitance Test"
 - 2. Two levels of "Direct Contact"
- C. The meter is completely shielded so it reads only the metallic contacted points.
- D. Most units are offered with back lighting. Please call for specifics.
- E. Specific voltage ranges are available as well.

III. PROOF TESTING (*ALWAYS TEST PRIOR TO USE*)

- A. Check internal battery first.
- B. Use BT (Battery Test) position on unit to make sure meter needle deflects. Look for $\frac{3}{4}$ deflection. (See Maintenance)
- C. With meter probe make contact with raised washer on tester (located on the bottom left side of tester).
- D. Depress washer until red indicator glows. (If no light or deflection, see maintenance)
 - 1. **If no meter deflection is obtained, do not attempt to use the meter!**
- E. ***Always use proper safety equipment and follow your company's procedures when making live measurements!***

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

IV. READINGS

- A. The meter is completely shielded so it reads only the metallic contact points.
- B. There are no stray field indications once direct contact is made.
 - 1. Because of the instruments circuitry, false readings caused by cable charging potentials are canceled.

V. TESTING

- A. A testing device which allows the STB Voltage Sensor to be tested for correct operations before and after use is provided in the sturdy carrying case which is included with your purchase of the unit. **Be sure to test the unit before and after each use for your safety!**

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VI. MAINTENANCE

- A. Selector switch should indicate better than $\frac{3}{4}$ scale deflection when in **BT** position.
- B. If the indication is less than $\frac{3}{4}$ deflection, the battery should be changed.

GENERAL TROUBLESHOOTING

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 use.

(Follow Operating Instructions for Tester)

GENERAL MAINTENANCE/TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE SOLUTION
Red indicator 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 the PC board inside the large meter head (soldering iron required)

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