

# HUBBELL CHANCE

## SENTINEL

### OPERATING INSTRUCTIONS

1. The Chance Sentinel will monitor the leakage current on an Epoxiglas® ladder or an insulated aerial device, which complies with ANSI A92.2 and terminates in a male BNC connector.
2. The Chance Sentinel must be mounted to an earth-grounded structure in a location that provides operator safety and convenient operation. Securely tighten mounting bolts.
3. Connect appropriate power source. On portable units install one or two 9V batteries (two will allow for longer use). On truck mounted units connect power lead to external connector (pin A = +, pin B = -).
4. Connect input coax cable to BNC connector.
5. Connect external alarm if applicable. The external alarm jack is wired for a standard 1/4", two conductor phone plug. The alarm activation closes the normally open contacts which are rated at 3 Amps, 20VDC. External alarms must have their own power source. If alarm draws more than 3 Amps, it must be activated by an external relay. For more information contact M.W. Bevins Co.
6. Hold power switch in the test position. The display contrast is remembered from the last setting. This setting can be adjusted for approximately the first 5 seconds by toggling the threshold adjust switch. The unit will then go into the cable test mode. When the free end is contacted to test point on front panel a small current will be passed through the cable. The unit is designed to internally compare measured result to internal reference and display pass or fail accordingly. Alarm will sound if cable test passed.

### **!WARNING !**

**IF CABLE IN TEST DOES NOT INDICATE PASSED UPON CONTACT WITH TEST POINT,  
STOP USING THE MONITOR UNTIL REPAIRED.**

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7. Test internal circuitry by holding the power switch in the test position and toggling threshold switch up. The microprocessor will output an AC signal to the input of the unit, which will verify the function of the monitor. If the reference amperage displayed is within the set tolerances the unit will display "passed".
8. Test power supply voltages by holding power switch in test position and toggling the threshold adjust switch down. Voltage will be displayed. If voltage is satisfactory, unit will display "battery good".

### **!WARNING !**

**IF ALARM(S) DO NOT SOUND, THE UNIT MAY NOT INDICATE AN UNACCEPTABLY HIGH  
LEAKAGE CURRENT WHICH CAN RESULT IN DAMAGE TO EQUIPMENT, PERSONAL INJURY  
OR DEATH.**

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**IF UNIT FAILS TO TEST PROPERLY, INSTALL FRESH BATTERIES AND REPEAT STEPS 6 AND 7. IF UNIT  
STILL FAILS TO FUNCTION PROPERLY, STOP USING THE MONITOR UNTIL APPROPRIATE REPAIRS  
HAVE BEEN MADE.**

9. Turn unit off.
10. Make appropriate connections to insulating device to be monitored.

**Ladder connection** — Install a hose clamp around each rail of the ladder near the de-energized end. Connect the hose clamps together with the jumper(s) supplied.

**Aerial Device** — Connect the Chance Sentinel to the aerial device with a suitable coaxial jumper cable (**not supplied**). This cable should have a male BNC connector on each end (one for the Chance Sentinel and one for the aerial device).

11. Turn unit on. Wait approximately 10 seconds for unit to go into the run mode. Adjust threshold to maximum acceptable leakage current for the application.

**THE UNIT IS NOW READY TO CONTINUOUSLY MONITOR THE LEAKAGE CURRENT.**

**! WARNING !**

**IF THE ALARM SOUNDS DURING WORK PROCEDURES INDICATING A LEAKAGE CURRENT HIGHER THAN THE SET VALUE, IMMEDIATELY REMOVE THE INSULATING DEVICE FROM THE ENERGIZED LINE.**

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**FAILURE TO COMPLY CAN RESULT IN DAMAGE TO EQUIPMENT, PERSONAL INJURY OR DEATH. WITH NO PERSONNEL ON THE INSULATIVE DEVICE, REPEAT STEPS 9 AND 10. IF ALARM CONTINUES TO SOUND, REMOVE THE INSULATING DEVICE FROM SERVICE UNTIL THE DEFECTS ARE CORRECTED.**

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12. If alarm sounds intermittently and display indicates low battery, the battery voltage is too low for use.
13. Store units with the batteries removed and cover securely fastened.

**FOR AUTHORIZED REPAIRS RETURN TO:**

**M.W. Bevins Company  
9903 East 54th Street  
Tulsa, OK 74146  
(918) 627-1273  
WWW.MWBEVINS.CO.COM**