

## Circuit Tester Operating Instructions

### PREPARATION

1. Open the battery compartment cover and insert the batteries.
2. Replace the battery compartment cover and switch the unit "ON".
3. The alarm should sound and the red and green lights should be lit when there are no connections to a mat or cable. If these things don't occur, inspect the battery connection or replace the batteries.
4. During normal use, the green light indicates that the Circuit Tester is monitoring the mat or cable for damage. Should the green light go out, replace the batteries before continuing work.



### OPERATION

Make sure the mats and/or cables to be monitored are **not** connected to a power source. The Circuit Tester is designed to monitor the mats or cables individually. However, by making a temporary "series" connection of multiple mats or cables, it can monitor up to three products at one time.

#### 1. FOR A SINGLE MAT OR CABLE:

Insert each lead wire from the mat or cable into the L1 and L2 terminals (no polarity) with the ground wire inserted into the G/E terminal. Tighten the terminal screws onto the wires.

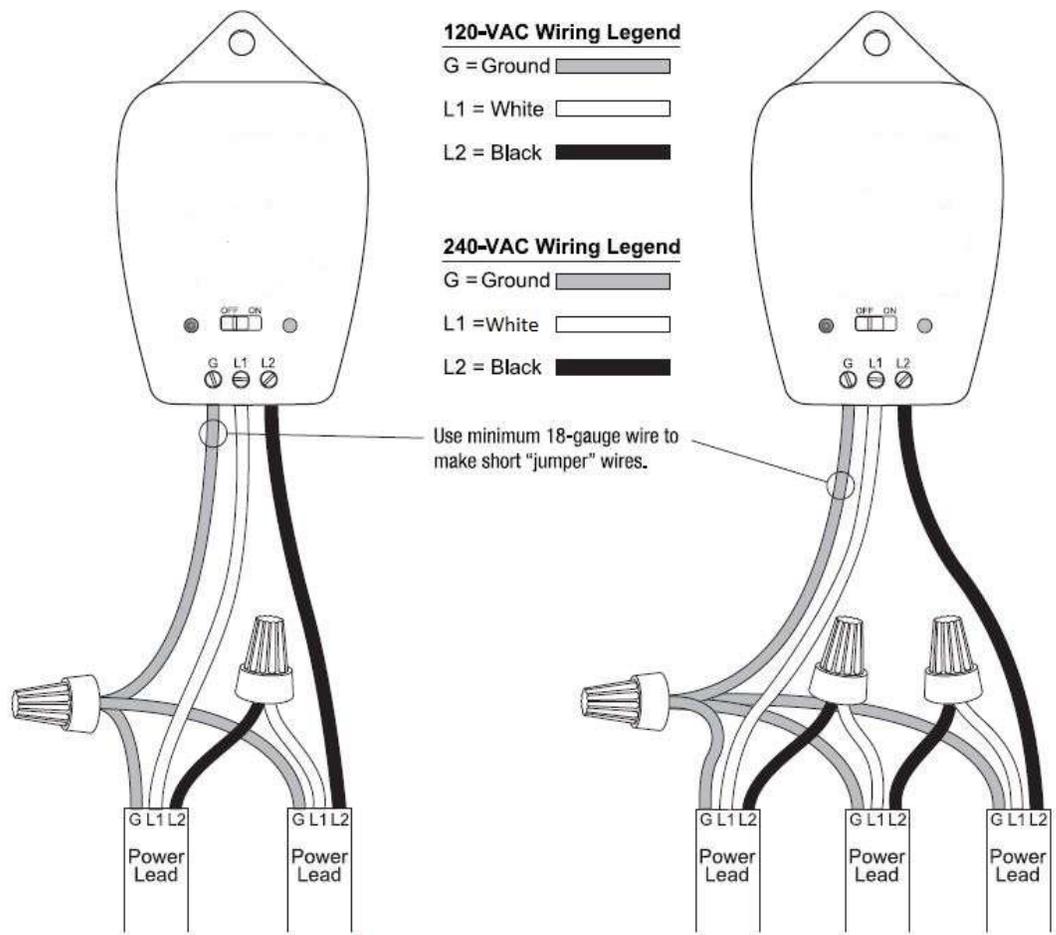
#### FOR UP TO THREE MATS OR CABLES:

Connect one non-ground lead wire from one mat or cable into the L1 terminal. Connect one non-ground lead wire from a DIFFERENT mat or cable into the L2 terminal. Now connect the remaining lead wires so that the mats or cables are in "series" with one another. If this is not done properly, the Circuit Tester may not correctly monitor the mats. Lastly, connect all ground wires from the mats or cables together to the G/E terminal using a jumper wire (use a minimum 18-gauge wire).

2. Set the switch to the "ON" position.
3. A green light indicates the Circuit Tester is operating.
4. Hang or place the Circuit Tester where it can be seen and heard during the floor warming system installation.
5. A red light and alarm indicate lead wires have come loose from terminals or damage has occurred to the floor warming system.
6. Check the wires have not come loose. If they are not loose, check for damage to the red wire. Confirm the ohms of the heating system using a digital multimeter.

Call Warming Systems at 800-663-7831 if damage or problems occur. Refer to the floor warming system installation manual for detailed installation instructions.

The Circuit Tester Installation Monitor is NOT intended to replace the use of a digital multimeter for testing the floor warming system.



**Schematic showing how to connect two heating mats or cables to the "Circuit Tester" for monitoring during installation.**

**Schematic showing how to connect three heating mats or cables to the "Circuit Tester" for monitoring during installation.**