

# HTCM Alarm & Monitor User's Manual

## DESCRIPTION

HTCM is designed to monitor your electric floor heating mats or cable during the installation process and to sound an alarm when a short or open circuit is detected.

## PRIOR TO USE

1. Make sure the heating mats/cable you want to monitor are NOT connected to a power source.
2. Unpack the unit and turn it "ON". A loud alarm should sound, accompanied by red "ALARM" and white "POWER" lights – this indicates that the monitor is working properly and is ready for use.
3. When monitor is "ON", the white "POWER" light should be on at all times. If this light goes out, replace the 9V battery.
4. Connect the system leads at the beginning of the project to detect faults.

## OPERATION

➤ For a SINGLE HEATING MAT OR CABLES:

1. Connect the braided ground line of the cold lead to the green alligator clip.
2. Connect the white and black wires of the cold lead to the red and black alligator clips.
3. Secure the HTCM nearby, make sure it can be seen and heard.
4. Turn the HTCM monitor "ON" and allow it to remain "ON" during all active phases of installation.
5. If an alarm sounds and/or red alarm light turns on (indicating the heating cable is damaged or wires became disconnected or loose from the terminals), stop installation, turn the monitor "OFF" and make necessary repairs. When repairs are finished, turn the monitor back "ON" and resume the installation.
6. To conserve battery life, turn the HTCM monitor "OFF" in between the installation steps.
7. When finished flooring is installed, turn the monitor "OFF" and disconnect the cold lead wires from the terminals.

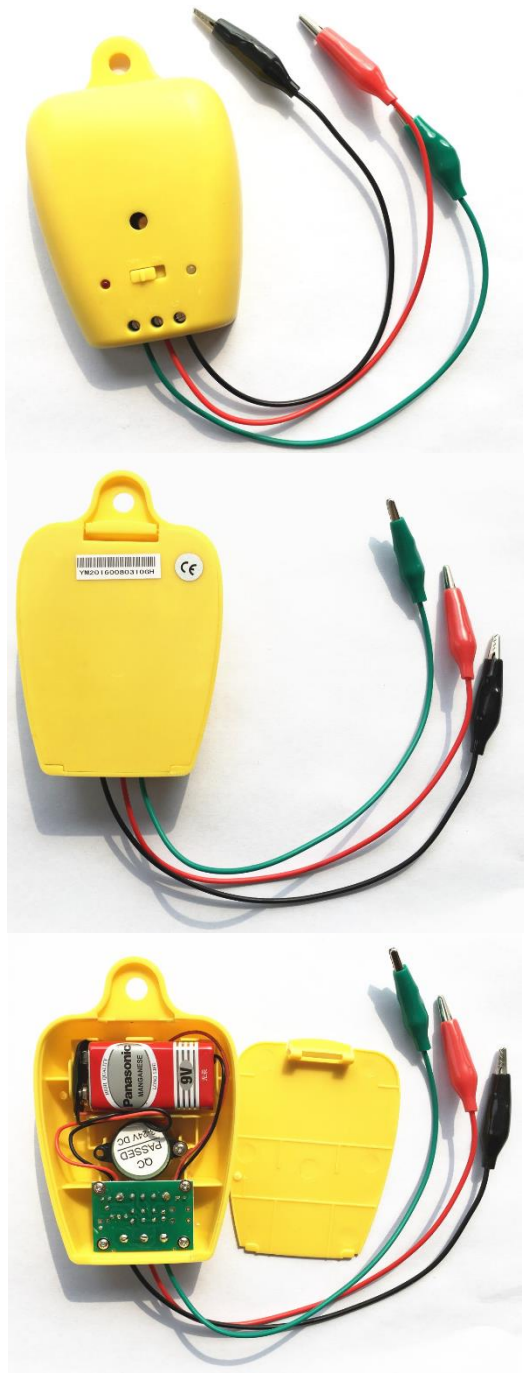
➤ For up to (3) HEATING MATS OR CABLES:

1. Connect the white and black power leads (not the ground braided wire) of the heating mats or cables in series: black wire of mat #1 to white wire of mat#2, then black wire of mat#2 to white wire of mat#3.
2. Connect remaining white lead of mat#1 and black lead from mat#3 to the red and black alligator clips.
3. Connect all the ground braided wires together and to the green alligator clip.
4. Apply electricians tape over any exposed wires.
5. Follow steps 3 through 7 for the Single mat/cable instructions above.

## Visual and/or audible alarm may indicate:

1. Damage to the heating wire or cold lead.
2. Wire is loose in terminal connections.
3. Wires became disconnected (when mats/cable connected in series).
4. Alligator clips are damaged (if they are used).

**Note:** This product does not replace continuity and resistance testing with Ohm meter described in mat and cable installation manuals. HTCM may not detect minor cuts in the heating wire which may cause GFCI to trip, if such cuts do not result in a short or open circuit.



"X" indicates alarm

Leads	Short circuit	Open circuit
L1, L2	N/A	X
G, L1	X	N/A
G, L2	X	N/A
G & L1+L2	X	N/A