

# QUICK START GUIDE FOR YOUR OMNI LT SYSTEM



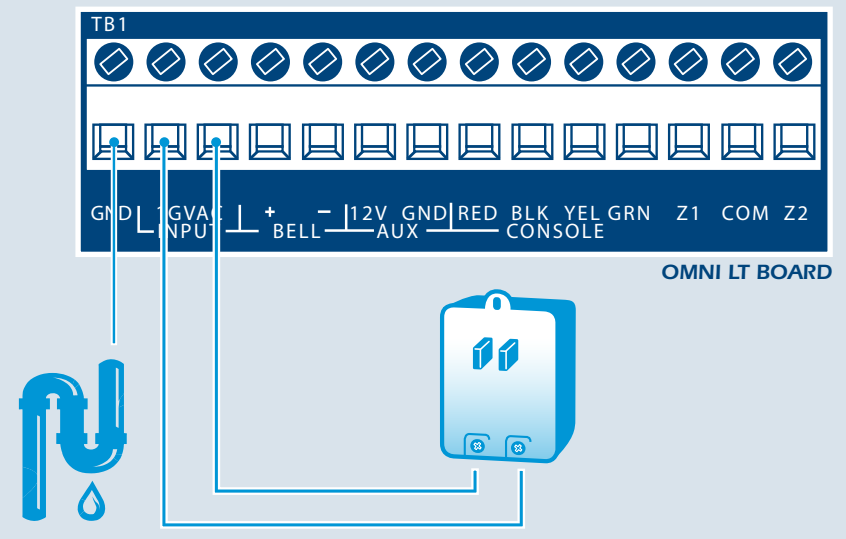
## 1. GROUND CONNECTION

Ground the Controller's "Earth Ground" terminal to a cold water pipe or to a 4-foot ground rod to preserve its built in transient protection.

## 2. TRANSFORMER CONNECTION

Connect a 16.5 volt 40 VA transformer to the 16VAC Input (2nd & 3rd input) in the left corner of the first terminal strip.

Grounding method must be in accordance with the National Electric Code, ANSI/NFPA 70.

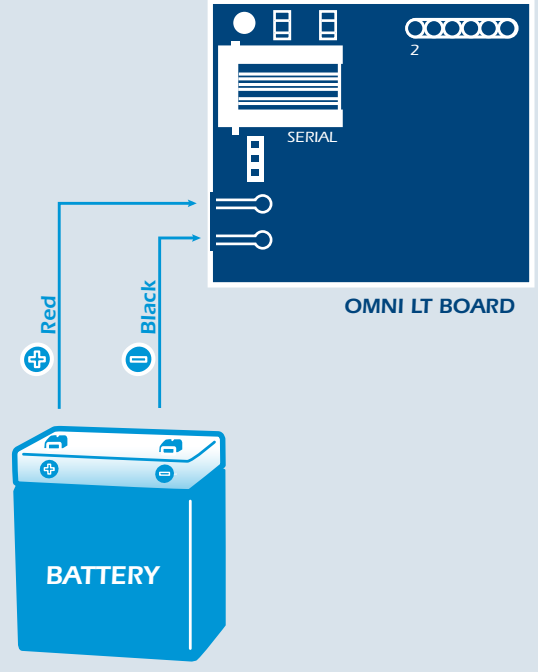


- NOTES:**
- a) Be sure you connect wires to inputs 2 & 3. Do not connect transformer to the first input (Ground).
  - b) Do not plug in transformer until all devices are wired to Controller
  - c) Make sure transformer is not plugged into a switched outlet.

## 3. BATTERY HOOK-UP

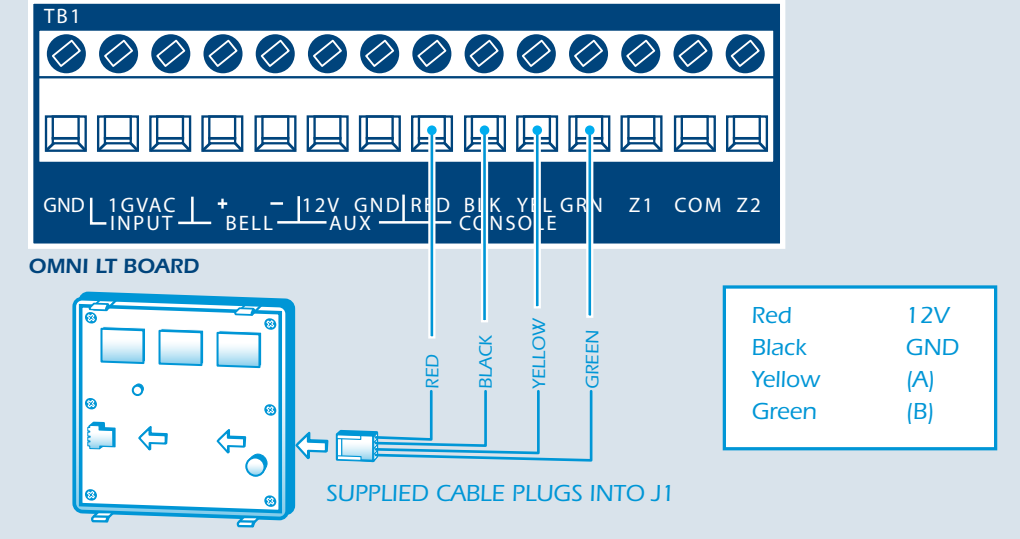
Connect the BLACK battery wire to the minus (-) battery terminal and connect the RED battery wire to the plus (+) battery terminal of a 12 volt battery.

**\* DO NOT** reverse the connections



## 4. CONSOLE

Use 4-conductor 22 gage wire, 1000 feet maximum length. Consoles can be homerun or daisy chained. This length shall be divided by the total number of consoles at the end of the run.

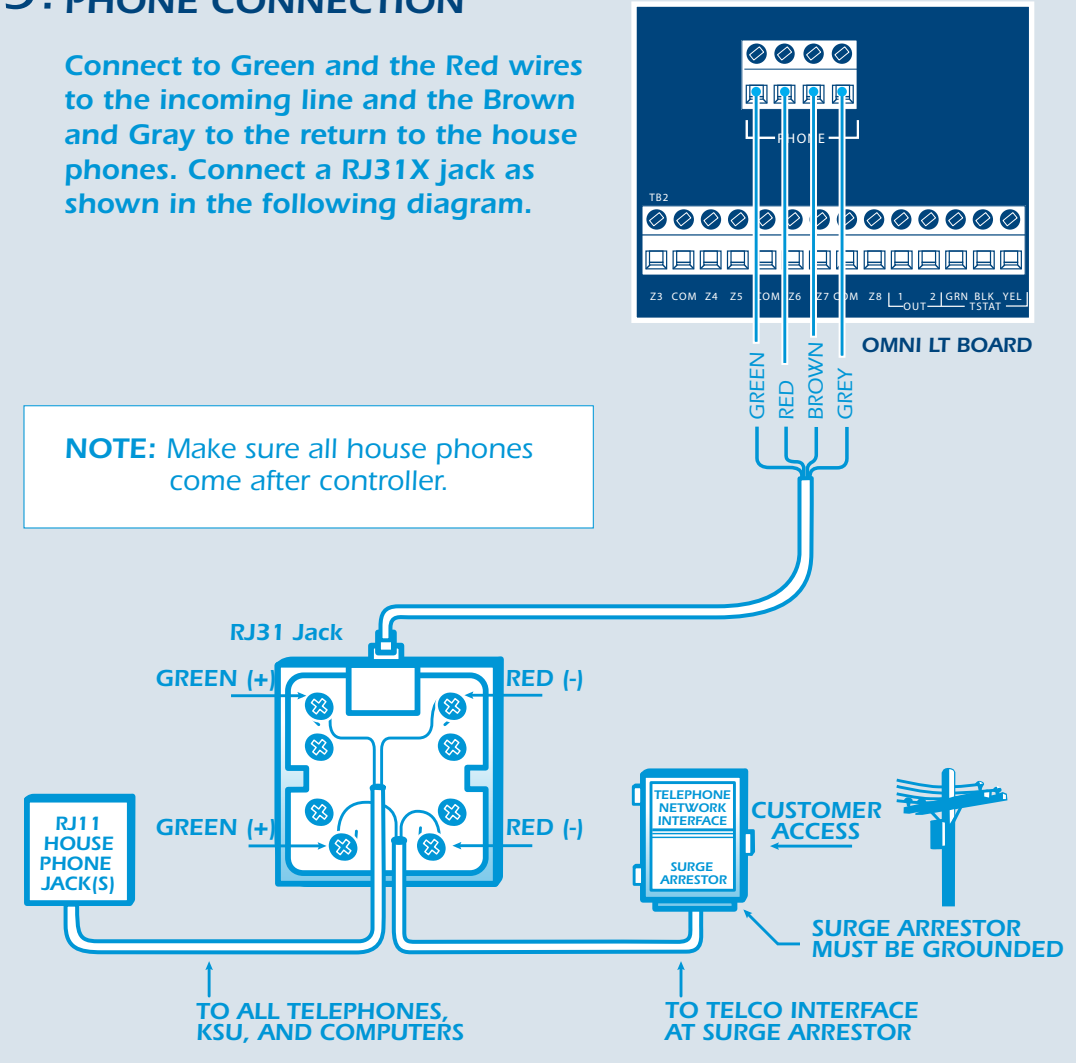


Maximum current draw from Auxiliary and Console terminal is 500mA. Be sure to add total current draw from all power devices. See current draw listings below for consoles:  
Omni Console- 33A00-1 = 40mA – 100mA (active)

## 5. PHONE CONNECTION

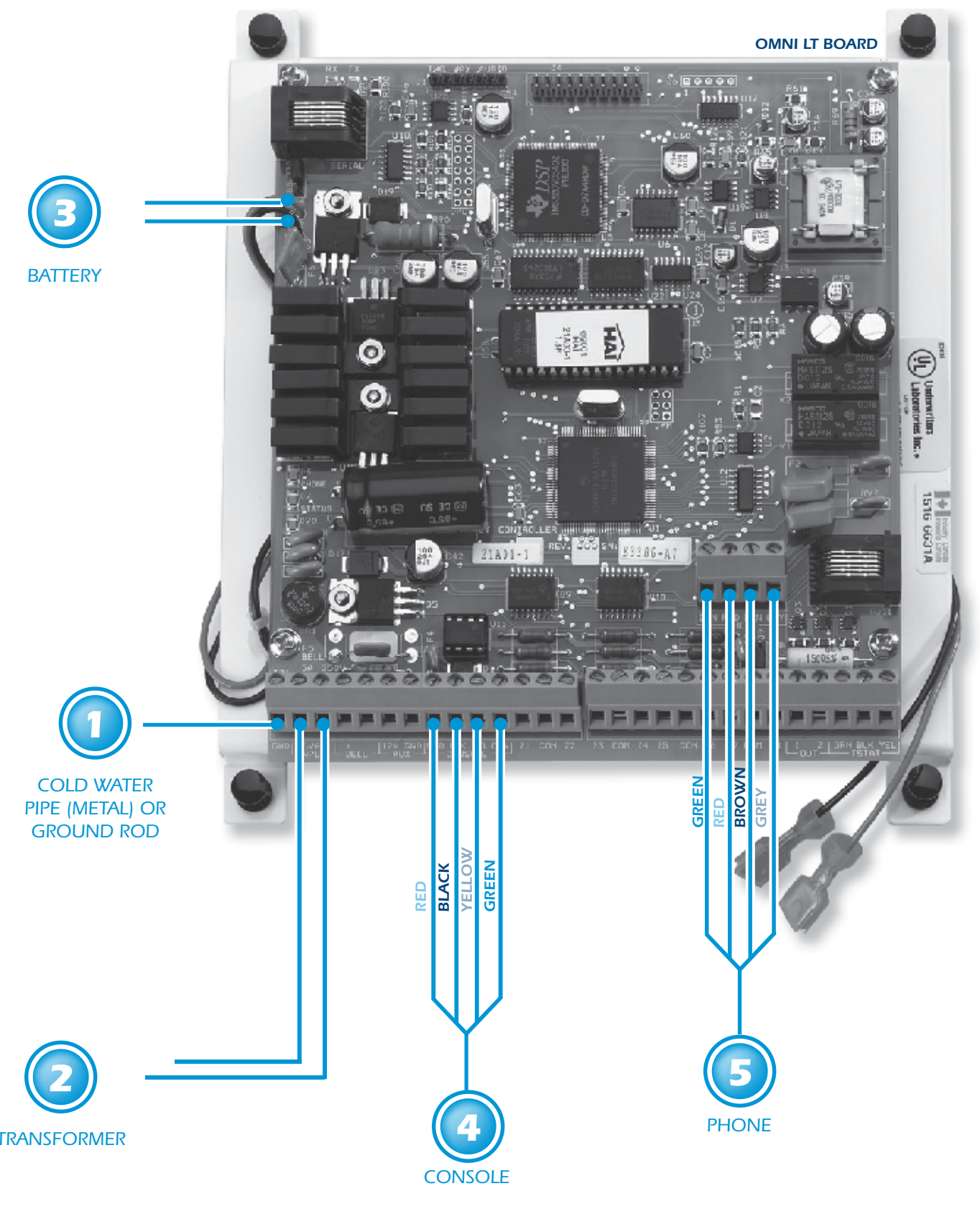
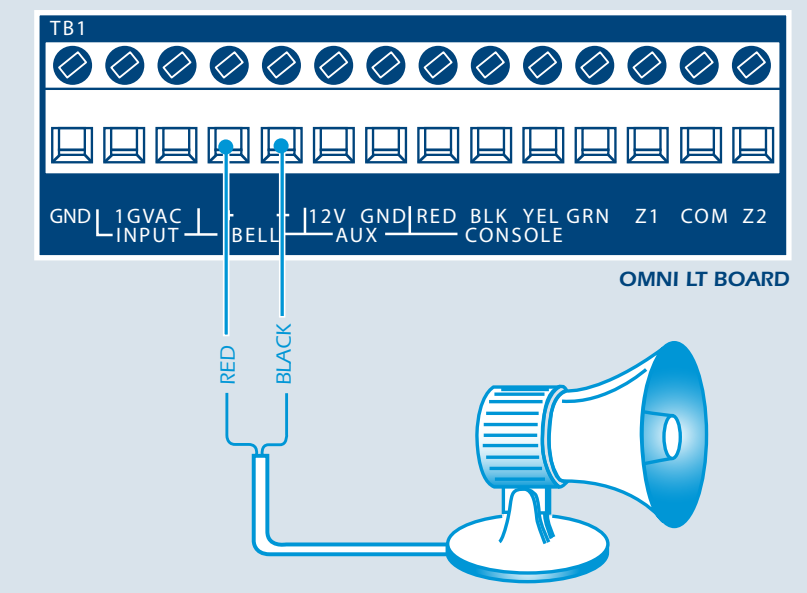
Connect to Green and the Red wires to the incoming line and the Brown and Gray to the return to the house phones. Connect a RJ31X jack as shown in the following diagram.

**NOTE:** Make sure all house phones come after controller.



## 6. SOUNDERS CONNECTION

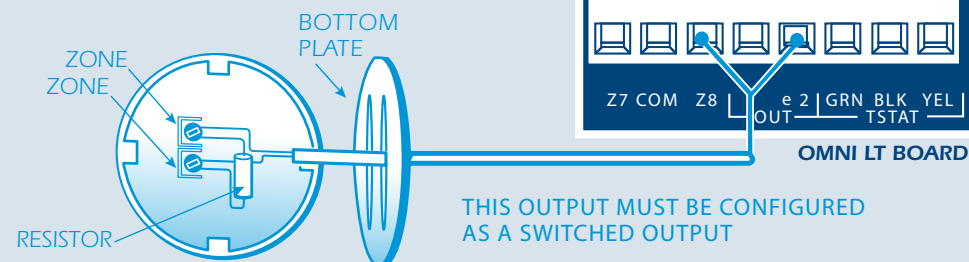
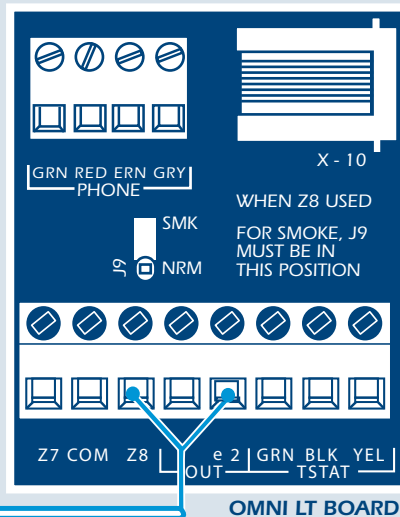
- Sounders can draw up to 1 amp MAXIMUM from the Bell output
- Use a relay connected to an auxiliary power supply if a higher current draw is required
- If there is a slight hum coming from the siren, or if a siren is not being used, strap bell outputs out with a 1 K ohm 1/2 watt resistor





## 7. TWO WIRE SMOKE CONNECTION

- All two wire smoke detectors must be daisy chained (in parallel), with the 1K ohm EOL resistor at the last detector.
- Be sure to move jumper to SMK position.
- All two wire smokes must be wired to zone 8 only.



(See installation manual for complete details)

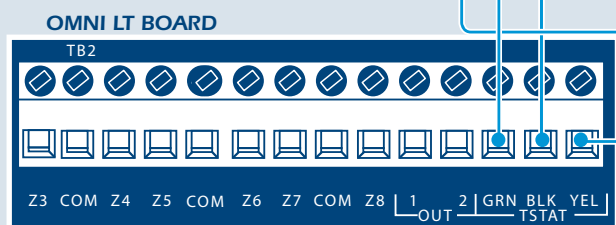
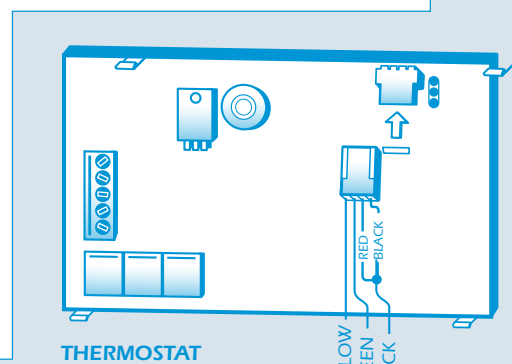
## 8. FOUR WIRE SMOKE CONNECTION

If multiple 4 wire smoke detectors are connected to the same zone, they must be daisy chained (in parallel), with the 1K ohm EOL resistor at the last detector. 4 wire smoke detectors may be connected to any zone. A Power Supervision Relay is required for each 4 wire zone.

(See installation manual for complete details)

## 9. RC SERIES THERMOSTAT CONNECTION

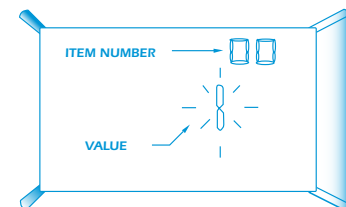
- Run a 3 or 4 conductor wire from the controller to the Omnistat.
- All OmniStats are connect to the controllers TSTAT input.
- Make sure black and red wire are securely connected to each other. If they are not, you will have communication problems.
- Give each Omnistat a unique address.
- Under Setup/Installer/ Temps in the controller programming, enable thermostats being used.
- Disable Internal thermostat programming in thermostat (Item 03 - Display Options).



## 10. THERMOSTAT SETUP

To enter the Installer Setup, set Mode to "OFF". After 10 seconds, press the Prog key three times (day will flash), then press the Fan key. When in Installer Setup mode:

- Press the Prog (>) key to advance to the next item.
- Press the Hold (<) key to return to the previous item.
- Use the arrow keys to change the value of each item.
- Do not set the values to anything other than the specified range for each item.
- To exit Setup mode, press the Fan key.



### ADDRESS

- You are installing more than one thermostat, each must be set to a consecutive address, starting at 1. The default address setting is 1.
- Address 1 or 2 may be selected.

### SYSTEM OPTIONS

The thermostat can be configured with the following system options:

- |                      |                    |
|----------------------|--------------------|
| 0. Auto changeover   | (no fan with heat) |
| 1. Auto changeover   | (fan on with heat) |
| 4. Manual changeover | (no fan with heat) |
| 5. Manual changeover | (fan on with heat) |
| 12. Heat only        | (no fan with heat) |
| 13. Heat only        | (fan on with heat) |

### DISPLAY OPTIONS

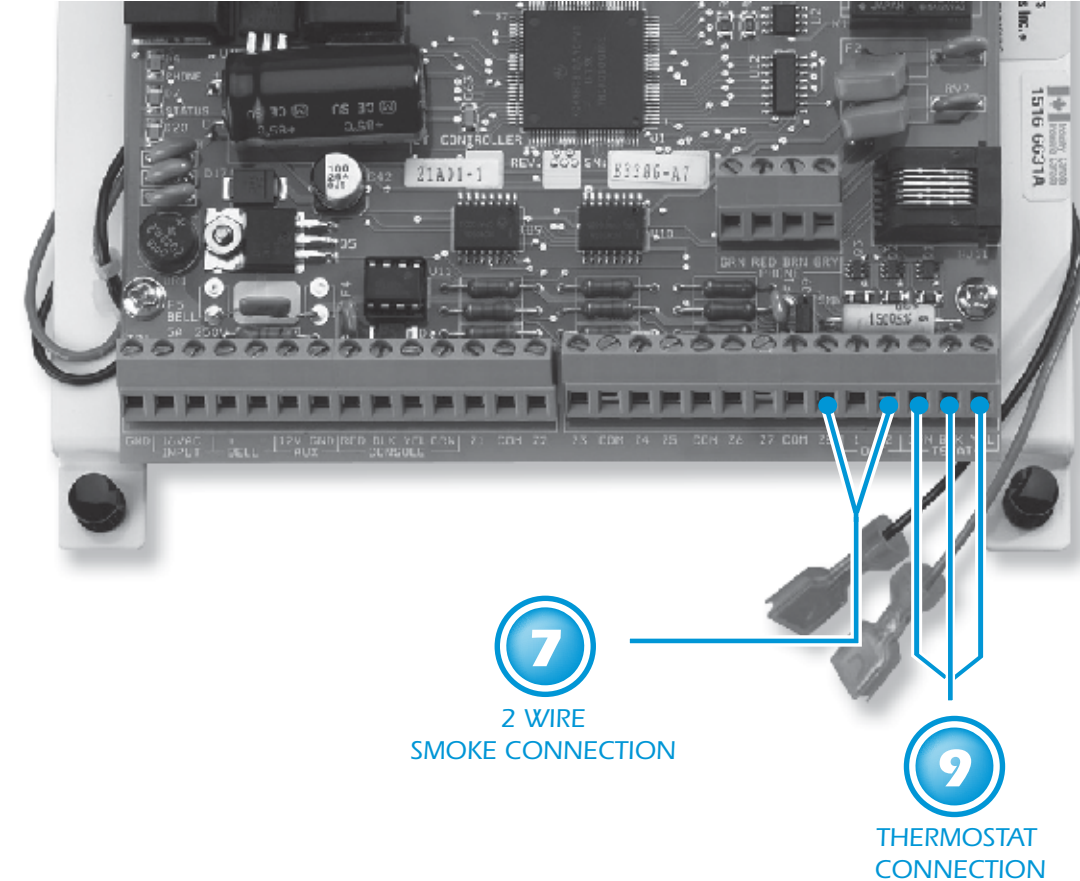
The thermostat can be configured to display the following attributes:

- |               |       |              |
|---------------|-------|--------------|
| 0. Celsius    | am/pm | programmable |
| 1. Fahrenheit | am/pm | programmable |
| 2. Celsius    | 24hr. | programmable |
| 3. Fahrenheit | 24hr. | programmable |
| 4. Celsius    | am/pm | non-prog.    |
| 5. Fahrenheit | am/pm | non-prog.    |
| 6. Celsius    | 24hr. | non-prog.    |
| 7. Fahrenheit | 24hr. | non-prog.    |

\*When connected to an HAI controller, the thermostat should be configured as "non-programmable".

## 11. SYSTEM POWER UP PROCEDURE

- Carefully review connections to the zones, grounds, sounders, and consoles.
- Plug in the power transformer (transformer must be 16.5VAC)
  - The AC ON LED should illuminate
  - The STATUS LED should begin blinking at a rate of 1 blink per second. This indicates that the OmniLT processor and software are working.
  - The PHONE LINE LED should be OFF (if all telephones are on hook and the RJ31 jack is properly connected).



Continued...

- Unplug the transformer. The system should continue to run on the battery (as evidenced by the flashing STATUS LED)
- Plug the transformer back in and secure it to the outlet

## 12. CONSOLE ADDRESS

If you are installing more than one console, the consoles or touchscreens will all beep until each device is set to a different address. The default address setting is (1) - this is adequate if only one console is being used. The choices at the bottom are 1-16; however, the OmniLT only supports 4 consoles. When making your choice, choose an address between 1-4, then press the # (pound) key.

### ADDRESSING THE TOUCHSCREEN

OmniTouch touchscreens are connected to the same communications bus as HAI consoles. Each console and touchscreen must have a unique address. The default address setting of the touchscreen is "1".

When power is first connected to the touchscreen, if the touchscreen isn't addressed properly (other consoles or touchscreens already occupy the touchscreens address). Assign it a new address as follows:

- To assign an address to the OmniTouch touchscreen, press and hold the HAI logo for three seconds. The "Touchscreen Address" page is displayed.
- This page allows the installer to adjust the brightness and contrast of the touchscreen and assign the touchscreen address.