BTM-Series Quick Start Guide

Notes Before Starting:

1. The sensors may be connected either way round, they are not polarity conscious.
2. The relays are 'fail-safe', i.e., they are continuously energised, and de-energise at a fault condition, including loss of unit power.
3. The microprocessor inside the unit updates change in conditions every four seconds.

About LEDs:

Open circuit LED on control box illuminates fully on:
1. If power is switched on with an open circuit condition
2. If power is switched on with more than four over-temperatures
3. With the unit operating, if 3 over temperature occur within 1/second of the first over-temperature

With one over-temperature on one sensor the following will be indicated:
1. The 1+ LED on the control box with flash on/off in a period of 1/second
2. The LED on the sensor with the over-temperature will flash from low to high intensity at a rate of 1/second

With over-temperatures on 4 or more sensors the following be indicated:
1. The 1+ LED and the 4+ LED will flash alternatively at a rate of 1/second
2. The LED's on the sensors with the over-temperatures will flash from low to high intensity at a rate of 1/second

Operation of the Relays Indicates the Following:

1. Relays 1+ off, Relay 4+ off
    a. Four or more over temperatures exist **OR**
    b. No power to the control box

2. Relay 1+ off, Relay 4+ on
    a. Over temperature on one sensor

3. Relay 1+ on, Relay 4+ off
    a. Open circuit connection

General Information:

In the unlikely event of the sensors being connected after power up the following will occur after illumination of the open circuit LED

1. No over-temperature, the open circuit LED will go out
2. 4+ over-temperatures, the open circuit LED will stay on and the sensors that are over-temperature will show low intensity for 4 seconds then flash high intensity for 1 second. This will be repeated every 5 seconds
3. 1+ over-temperature, the open circuit LED will go out and the 1+ LED will flash from low to high intensity at a rate of 1/second