The sensor has 3 primary operation modes:

1. **Test Mode**

To enter test mode, power up the sensor while holding down the button/magnet-wand switch and releasing it after the LED turns off (after approx. 7 seconds).

In this mode, the LED will flash in a repeated pattern based on the reading from the temperature probe:
- 2 short flashes if the probe is reading room temperature (between 60 and 80 degrees F)
- 4 short flashes if the probe is reading below 60 degrees F
- 1 long flash if the probe is reading above 80 degrees F

If the switch is held down in this mode, the fan relay and LED will be forced on. Releasing the switch will turn the relay off, and the LED will resume flashing the appropriate pattern.

NOTE: If the switch is held down for approx. 12 seconds on power-up, the sensor will recognize this as an error state and enter failure mode – the fan relay will be forced on until the next power cycle, and the LED will be forced off to indicate a failure.

2. **Program Mode**

To enter program mode, power up the sensor while holding down the button/magnet-wand switch and releasing it before the LED turns off.

In program mode, toggle the switch until the desired temperature set point is selected. The LED will flash in a pattern to indicate which setting is selected:
- 1st setting (120 F): 2 short flashes
- 2nd setting (130 F): 3 short flashes
- 3rd setting (140 F): 4 short flashes
- 4th setting (150 F): 1 long flash
- 5th setting (160 F): 1 long and 1 short flash

If desired, hold the switch for approx. 3 seconds to return the temp switch to the default setting (120 F).

NOTE: In this mode, the temperature probe and fan relay are deactivated, meaning the fan will not turn on at all. Be sure to power cycle the sensor after programming it.

3. **Run Mode**

To enter run mode**,** power up the sensor without holding down the button/magnet-wand switch.

In run mode, the fan relay will switch on when the temperature reaches the set point and switch off when the temperature falls to 5 degrees less than the set point.

About every 5 seconds, the LED will flash a "heartbeat" pattern to indicate that the sensor is operating. The LED will blink once if the fan relay is off, and twice if the relay is on.

Every third heartbeat, the LED will instead flash a pattern indicating the current temperature level in degrees F:

- 110 to 120 degrees F – 1 short flash
- 120 to 130 degrees F – 2 short flashes
- 130 to 140 degrees F – 3 short flashes
- 140 to 150 degrees F – 4 short flashes
- 150 to 160 degrees F – 1 long flash
- 160 to 170 degrees F – 1 long and 1 short flash
- 170 to 180 degrees F – 1 long and 2 short flashes
- 180 to 190 degrees F – 1 long and 3 short flashes

NOTE: If the temperature is below 110 degrees F, the LED will always flash the regular heartbeat pattern. If the temperature is above 190 degrees F, the LED will remain constantly on instead of flashing any heartbeat or temperature pattern.

If desired, the button/magnet-wand switch may be held down to manually force the fan relay on. The LED will continue flashing the appropriate heartbeat/temperature pattern. Releasing the switch will turn the relay off, assuming the temperature has not risen to the set point while the switch was held down.