INSTALLATION AND
OPERATION MANUAL

HEAT-TIMER®
C O R P O R A T I O N

LONG RANGE WIRELESS SPACE SENSORS

⚠ **CAUTION**

This equipment complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. If this equipment does cause harmful interference to radio or television reception, which can be etermined, by turning this equipment OFF and ON, the user may correct the interference by: (1) Reorienting or relocating the receiving antenna, (2) Increasing separation between the equipment and wireless components, (3) Connecting the equipment to a different outlet circuit from that of the wireless components, or (4)Consulting an experienced radio/TV technician for assistance.

The antenna supplied by Heat-Timer Corporation must be used (gain <= 6dB). It is recommended not to operate the device (transceiver) with persons closer than 20cm to the antenna. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
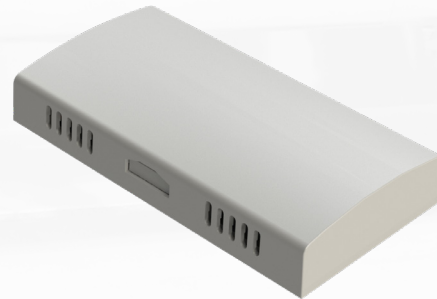

⊘ **NOTE**

Prior to installation, ensure the Long Range Space Sensor is being installed in a wireless network system that includes other Long Range devices, i.e. Long Range Repeaters, Long Range Wireless Temperature Modules...
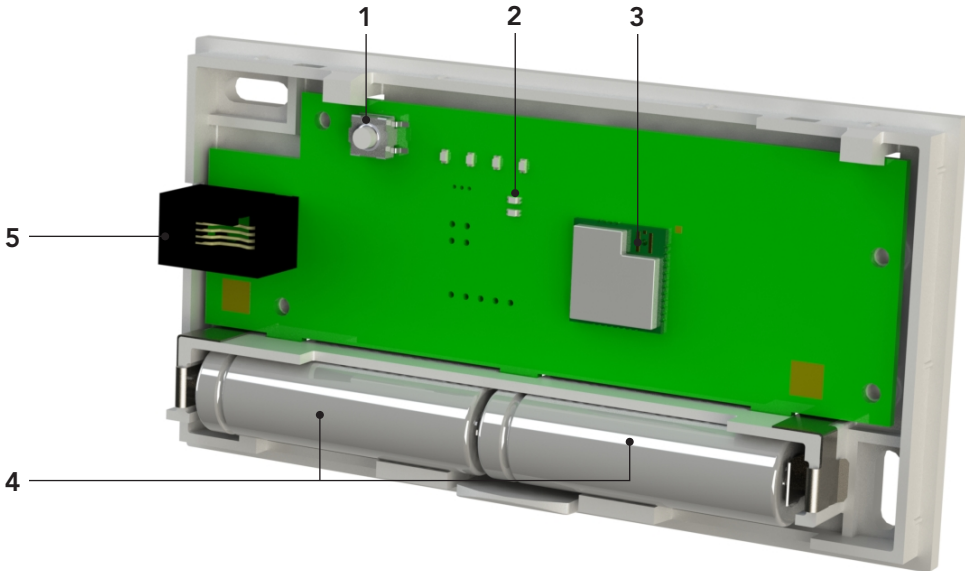
Any wireless sensor network installed prior to 2023 may contain old style Space Sensors which are not compatible with the newer Long Range Space Sensors and therefore are not interchangeable. The difference in Space Sensors is distinguished by the sensor cover as shown below.

**Space Sensor—Old Style
with grooved cover**

**Long Range Space Sensor—New Style
with flat cover**

ITEM	DESCRIPTION
1	Transmit Button.
	Use to send the Wireless Space Sensors data to a destination device.
2	Status Indicators (LEDs).
	• Green "main" LED blinks when data reception by a destination device has been acknowledged.
	• Red "RF" LED will blink with the Green LED when the Wireless Space Sensors is not programmed.
	If both LEDs are blinking, no System ID has been configured.

ITEM	DESCRIPTION
3	RF Module.
	Transmit/receive radio signals to/from other devices.
4	Batteries.
	Provide power for the Wireless Space Sensors (2) AA 1.5V lithium batteries.
5	RS485 Connector.

SPECIFICATIONS

Dimensions (W x H x D)_____5" x 2 5/8" x 7/8" (127mm x 66.68mm x 22.23mm)

Mounting Locations_____Wall Mount

Temperature Range_____40°F to 150°F (4.5°C to 66°C)

Power Input_____AA Lithium (1.5V) Batteries (2)

Transmission/Reception_____Internal Antenna

Frequency_____RF 900MHz FHSS

Signal Strength_____25mW to 100mW

Programming Interface_____RS485 (future use)

User Interface_____Status Indicators (2 LEDs, Green and Red) Mode Transmit Button (1)

The Long Range Wireless Space Sensors installation process consists of the following basic steps:

1 Programming the Wireless Space Sensors.

- For Genesis Installations, *see page 5*
- For Platinum Installations, *see page 8*

2 Selecting appropriate locations and mounting the device(s).

3 Configuring the Space Sensor into ICMS.

REQUIRED MATERIALS (NOT SUPPLIED)

The following materials/tools are required for installation, but are not supplied:

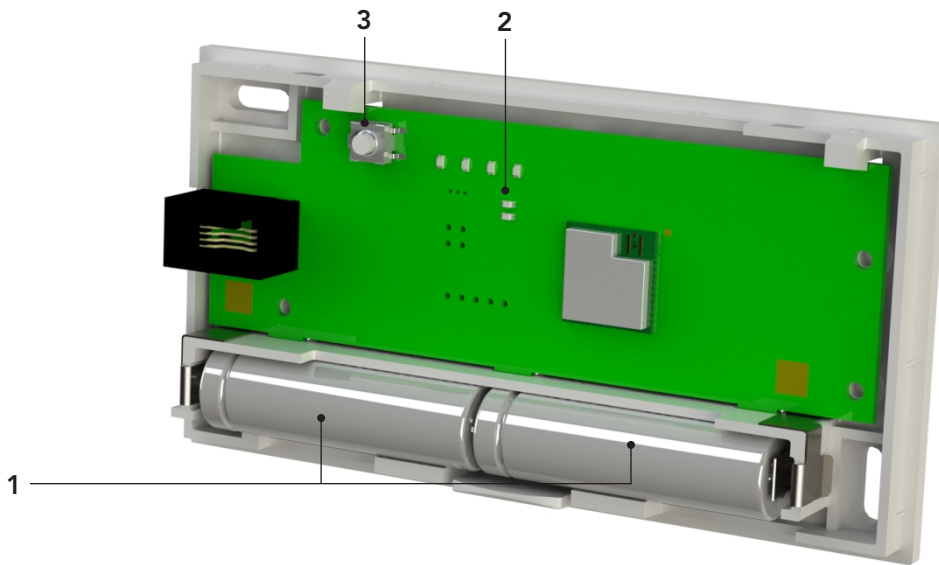- General tool kit (screwdrivers, power drill, etc.)

GENESIS

> **⊘ NOTE**
>
> The Space Sensors provided with Genesis Heat-Timer™ package are pre-programmed by the factory for that particular Genesis Heat-Timer™ control. There is no need for programming the Space Sensors prior to installation.

1 Insert two AA 1.5V lithium batteries **(1)** (Heat Timer P/N 020012–00).

> **⊘ NOTE**
>
> Ensure to install the batteries in the proper direction.

2 Observe the Wireless Space sensor status indicators **(2)**. The Green LED should blink when data reception by Genesis Heat-Timer™ is received.

If both (RED, GREEN) LEDs are blinking every second after installing the batteries, the System ID is not set for the Genesis Heat-Timer™ control. *Reference ADD ADDITIONAL WIRELESS SENSOR section on page 6.*

> **⊘ NOTE**
>
> If the LEDs are not blinking, verify the batteries are good and are installed correctly. If the batteries are good and the LEDs are not blinking, ensure the space sensors are configured with the Genesis Heat-Timer™ control.

3 If the Wireless Space Sensor is receiving data from the Genesis Heat-Timer™ the Wireless Space Sensor is then ready to be mounted.

ADD ADDITIONAL WIRELESS SENSORS

Description: The Genesis Heat-Timer™ control comes from the factory with 3 wireless sensors preprogrammed for a specific Genesis Heat-Timer™ control. An additional 2 wireless sensors may be added to the Genesis Heat-Timer™ control.

1   Remove the cover of the additional wireless space sensor.

2   On the Genesis Heat-Timer™ control enter the ADVANCE HEAT SETTINGS menu by pressing and holding the MENU button for 5 seconds.

3   Once in the ADVANCE HEAT SETTINGS menu scroll down to MAINTENANCE menu and then select WIRELESS SENSORS.

4   Once in the WIRELESS SENSORS menu select ADD WIRELESS SENSORS.

5   Select START on the Genesis Heat-Timer™ control to begin the sensor detection.

6   Insert the batteries into the wireless space sensor.

7   The Genesis Heat-Timer™ control will find and detect the wireless sensor if the sensor was pre-programmed from the factory.

8   If the Genesis Heat-Timer™ control does not detect the wireless sensor, check the sensor LEDS. If the Green and Red LED's are blinking every second, the sensor is not programmed.

9   To reattempt the programming of the wireless sensors, Cancel the Genesis Heat-Timer™ controller from attempting to detect the sensor by press STOP on the right most display button.

10   Remove the batteries from the wireless space sensor.

11   Select START on the Genesis Heat-Timer™ control to begin the sensor detection.

12   Re-Install the batteries and check the sensor LEDS. If the Green and Red LED's continue blinking every second, press the TRANSMIT button on the wireless sensor.

13   Once a sensor is properly programmed and detected by the Genesis Heat-Timer™ control, the Green and Red LED's will blink only when data is transmitted.

14   Once the sensor is programmed and detected by the Genesis Heat-Timer™ control proceed to *Mounting the Wireless Space Sensor on page 11*.
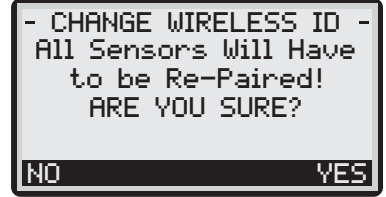
⊘ **NOTE**

If the sensor Green and Red LEDS continue to blink after pressing the TRANSMIT button, contact Technical Support at Heat-Timer.

```
— WIRELESS SENSORS —
Add Wireless Sensors
Change Wireless ID



BACK    ▼    ▲  SELECT
```

```
— PAIR NEW SENSORS —
   Press Start and
  Power-Up Wireless
      Sensors

BACK            START
```

CHANGE WIRELESS ID

Description: The Genesis Heat-Timer™ control will allow the installer to enter a custom wireless system ID. If the installer opts to enter a customer wireless ID, the wireless sensors must all be reprogrammed with that specific Genesis Heat-Timer™ control as described under the ADD WIRELESS SENSOR menu.

```
- CHANGE WIRELESS ID -
 All Sensors Will Have
    to be Re-Paired!
    ARE YOU SURE?

NO                   YES
```

> ⊘ **NOTE**
>
> *Reference CONFIGURING THE WIRELESS SPACE SENSOR on page 5*
> **for additional information regarding the pairing of the Genesis Heat-Timer™ control with pre-programmed wireless space sensors provided with the control.**
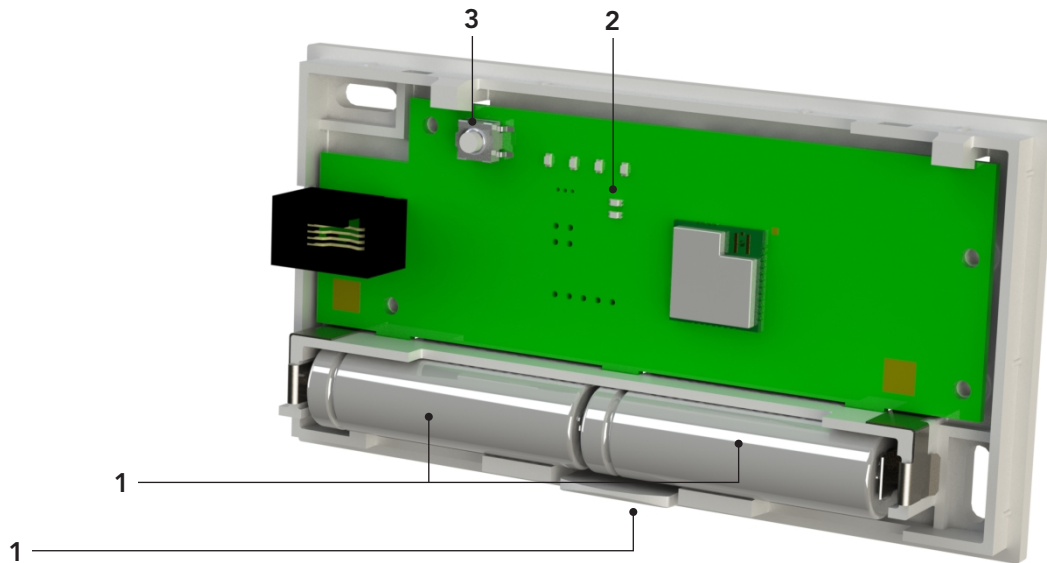
PLATINUM

PROGRAMMING THE SYSTEM ID

For the Long Range Space Sensors to function in a wireless sensor system, each space sensor must communicate with a nearby Long Range Repeater RLR or with the MSI Hub. Each wireless sensor network should have an unique System ID that enables all wireless sensor network components (Space Sensors, Repeaters and Wireless Temperature Modules) with that System ID to communicate with each other.

1   Open the Wireless Space

Sensor by gently pressing on the base locking tab **(1)** and removing the cover, and then insert two AA lithium 1.5V batteries **(2)** (Heat-Timer P/N 020012–00).

> ⊘ **NOTE**
>
> **Be sure to install the batteries in the proper direction.**

2   Observe the Wireless Space

Sensor status indicators **(3)**. If the LEDs are blinking every second after installing the batteries, the System ID is not set (by default, the factory setting is that the System ID is not set).

> ⊘ **NOTE**
>
> **If the LEDs are not blinking, verify the batteries are good and are installed correctly. If the batteries are good and the LEDs are not blinking, the System ID has already been set. If the System ID is known, continue with** *"Mounting the Wireless Space Sensor" on page 11*. **If the System ID is not known, the System ID must be cleared using the following steps:**
>
> **a**   **Remove the batteries from the Wireless Space Sensor.**
>
> **b**   **Press and hold the Mode button (4) while re-installing the batteries. Continue holding the Mode button until the Wireless Space Sensor status indicators (3) start blinking once per second.**
>
> **c**   **Continue with Step 3.**

3 Remove the batteries from the Wireless Space Sensor, and then program the Wireless Space Sensor System ID using one of the following two methods:

PROGRAM THE SYSTEM ID WIRELESSLY USING A REPEATER—LONG RANGE (RLR) OR MSI HUB

a Ensure the Repeater RLR or MSI Hub has been powered-on and has already been programmed with the System ID. Observe the MSI Hub status LEDs **(1)**. If the status LEDs are not blinking, or are blinking only once every 15 seconds, a System ID has been programmed. If the LEDs are blinking rapidly (once per second), a System ID has not been programmed, reference the MSI Hub Installation manual for additional instructions.
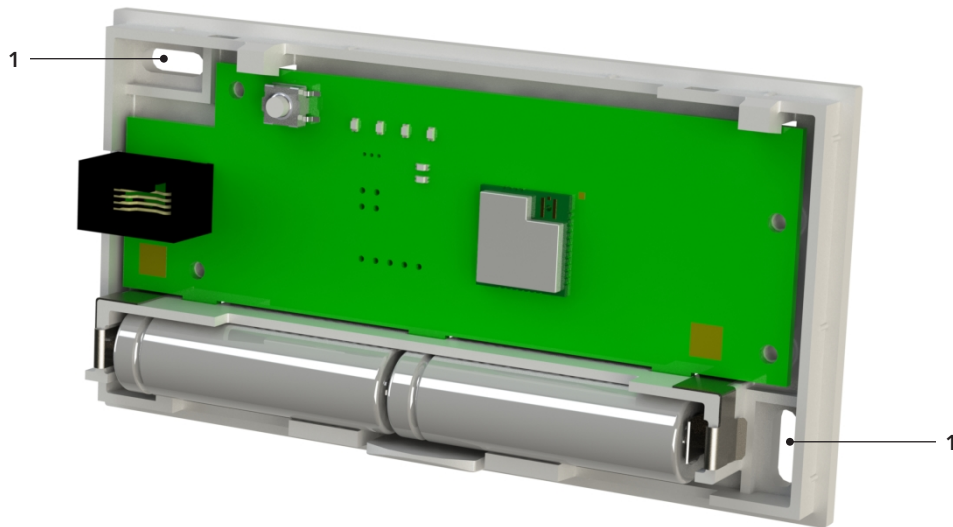
MSI HUB

b Press and hold the System ID Set/Reset button on the MSI Hub **(2)** for 5 seconds or until the red LED starts blinking.

c Place the Wireless Space Sensor near the MSI Hub or near a Repeater—RLR.

d Insert the batteries into the Wireless Space Sensor and observe the sensor's red and green status LEDs. When the LEDs stop blinking, the space sensor is programmed and ready to be mounted.

e After the System ID has been programmed on all the Wireless Space Sensors, press the System ID Set/Reset button on the MSI Hub to return the MSI Hub device to normal operation.

f Continue with *"Mounting the Wireless Space Sensor" on page 11*.

MOUNTING THE WIRELESS SPACE SENSORS

> ⊘ **NOTE**
>
> If additional Long Range Wireless Sensors are added to the wireless network system the System ID must be programmed on all of the Wireless Space Sensors prior to mounting. Ensure the steps provided in *"ADD ADDITIONAL Wireless Sensors" on page 6* for Genesis and *Program The SYSTEM ID on page 8* for Platinum have been completed before continuing. The Wireless Space Sensor cover should already be removed and the batteries installed.

1   Select an appropriate location to mount the Wireless Space Sensor. The location must meet the following minimum requirements:

   • The location should be on a wall that will represent the current living space temperature (for example: in the living room, 5 feet (1.5 meters) high on an interior wall).

   • The mounting surface should be flat and strong enough to hold the weight of the device.

   • DO NOT mount the device in a location where it will be exposed to heating, cooling, or humidity sources (such as near radiators, heating/cooling vents, windows, doors, or in a kitchen or bathroom.

2   Mark the mounting location through the two mounting holes **(1)** in the Wireless Space Sensor base, and then secure the Wireless Space Sensor in place using the supplied screws and wall anchors.

3   Snap the cover back onto the Wireless Space Sensor.

CONFIGURATION—WIRELESS SENSORS INTO ICMS

PERFORMING THE ICMS CONFIGURATION

After the Wireless Space Sensors has been programmed/sync to the Genesis or Platinum control and installed, it can be further configured in ICMS. This will allow the installer to provide label names to each individual wireless sensor for easier identification.

1 Note the location of the Wireless Space Sensor (for example, Apt. 5A) and the sensor ID.

> ⊘ **NOTE**
>
> **Each Space Sensor is provide with a sensor ID card and is labeled with the sensor ID on the base of the space sensor.**

2 Access **www.HTControls.com** and log in.

3 Under the menu item SETUP SENSORS AND ALARMS, select the appropriate building and control.

4 Once the Sensor Device ID is identified add the information corresponding to that sensor (name, type, and location).

5 After the ICMS configuration is complete, click onto SAVE CHANGES.

6 When completed log out of ICMS.

Installation Address: _____

_____

LOCATIONS:

1   Sensor _____   ID # _____

2   Sensor _____   ID # _____

3   Sensor _____   ID # _____

4   Sensor _____   ID # _____

5   Sensor _____   ID # _____

6   Sensor _____   ID # _____

7   Sensor _____   ID # _____

8   Sensor _____   ID # _____

9   Sensor _____   ID # _____

10 Sensor _____   ID # _____

11 Sensor _____   ID # _____

12 Sensor _____   ID # _____

13 Sensor _____   ID # _____

14 Sensor _____   ID # _____

15 Sensor _____   ID # _____

16 Sensor _____   ID # _____

17 Sensor _____   ID # _____

18 Sensor _____   ID # _____

19 Sensor _____   ID # _____

20 Sensor _____   ID # _____

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HEAT-TIMER® CORPORATION

20 NEW DUTCH LANE, FAIRFIELD, NJ 07004

PHONE: **973-575-4004**

FAX: **973-575-4052**

HEAT-TIMER.COM