

saferalarms™ We put fire safety at the source.

saferalarms™ Safer Christmas Tree Alarm System

User Manual

Thank you for choosing the saferalarms™ Safer Christmas Tree fire safety product. This User Manual will provide you with an introduction to the use and operation of the Safer Alarms, Inc. fire safety products. Before using a Safer Alarms, Inc. product, please read this manual carefully. Also, please refer to and review this manual when necessary.

General Information

This product is a well-designed portable temperature alarm which applies to household, office and other places where early fire detection is needed. Strategic placement allows the Safer Alarms, Inc. portable temperature alarm system to monitor the environment at the source, close to the fire hazard, providing an effective fire prevention tool. **It is designed for Indoor Use Only.**

A saferalarms™ portable Safer Christmas Tree alarm system consists of one Ornament fire sensor/transmitter and one remote alarm/receiver.

Product

saferalarms™ Safer Christmas Tree Alarm System

< - Christmas Tree Ornament Sensor/Transmitter Device



< - Remote Alarm/Receiver Device

Function Overview

1. Ornament Fire Sensor/Transmitter

Temperature Sensor Transmitter. Function: Temperature monitoring and detection. The Transmitter is located at the source of potential fire hazards. Our patent pending technology recognizes when temperature hits “danger zone” (150 degrees or higher) and the Transmitter sends an alert signal to the Receiver. The saferalarms™ Christmas Tree Ornament Sensor/Transmitter may be placed (hidden) on your Christmas Tree towards the top middle of the tree.

2. Remote Alarm/Receiver

Remote Alarm/Receiver Function: Receives Transmitter alert signal and management. When an alert signal is received from the Ornament Transmitter the Remote Alarm produces a steady alarm sound.

3. Lower power consumption

The saferalarms™ portable Safer Christmas Tree Alarm System is designed to operate with low power consumption. Theoretical power usage may be lower than 10uA/day.

4. Low battery warning

The Fire Sensor/Transmitter and the Remote Alarm/Receiver will each issue a Red LED warning when the battery power reaches low power status on each respective device.

5. Replaceable batteries

When the device indicates low power status, the user should replace the product batteries in order to prevent interruption or diminished product performance. The Safer Christmas Tree Alarm System will not operate if the batteries run out.

User Servicing Instructions

Installing and Replacing Batteries

The Ornament Fire Sensor Unit: Place thumb on the battery compartment cover casing of the Ornament unit. Lightly press and push up. This will release the cover casing and expose the battery compartment. Properly insert 2 AA batteries (not included) into compartment and replace cover casing until it clicks into place.

The Remote Alarm Unit: Holding the unit sideways, using two thumbs, lightly press and push the left side of the front cover casing. This will release the cover casing and expose the battery compartment. Properly insert 3 AA batteries (not included) into the compartment and replace the cover casing until it clicks into place.

Operation

The proprietary saferalarms™ microprocessor system operates after the batteries are properly inserted into the device. The LED lights located on the Buttons on both the Fire Sensor/Transmitter and the Remote Alarm/Receiver devices should twinkle/pulse BLUE light for three (3) seconds and then display a GREEN light which should blink at 20 second (on the Sensor/Transmitter) and 60 second (on the Alarm/Receiver) intervals following proper battery insertion. At this initial stage, we recommend that the user successfully perform the steps detailed in the Simulation Test For Alarm and Range Scope below before using the Safer Home Alarm System.

1. Christmas Tree Ornament Sensor/Transmitter. Definition of Test-Reset Button and LED Indicator light.



<- Test-Reset Button and LED indicator light

Placement/Location:

After installing batteries in both the ornament and the remote alarm/receiver unit place the Safer Christmas Tree ornament sensor towards the top middle of the Christmas Tree.

The Ornament Test-Reset Button:

Located at the bottom of the ornament near the vent.

Press the test-reset Button to activate the Ornament Sensor/Transmitter which will cause the LED light to twinkle/pulse BLUE until it locates and matches with a Remote Alarm/Receiver device. Once it matches with a Remote Alarm/Receiver device the LED light will then display GREEN and blink at 20 second intervals.

The Ornament Sensor/Transmitter LED Indicator Light:

Located on the Button of the unit within the test-reset button.

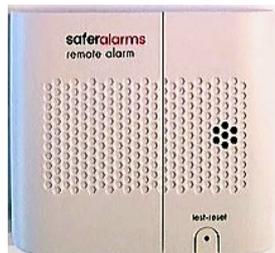
The LED displays three colors depending on function:

Red: Indicating a High Temperature Alarm or Low Power Alert.

Blue Twinkle/Pulse: Indicating Ornament Sensor/Transmitter is searching and matching with Remote Alarm/Receiver.

Green blink at interval: Indicating devices are matched and system is operating.

2. Remote Alarm/Receiver. Definition of Test-Reset Button and LED Indicator light.



< - Test-Reset Button and LED indicator light

Placement/Location:

The Remote Alarm/Receiver device may be placed anywhere in the home where the consumer knows it will be heard. It is generally recommended that the Remote Alarm/Receiver unit be placed above a doorway, hallway wall next to the ceiling, near sleeping areas or in other traditional detector locations. The Remote Alarm/Receiver unit can be mounted with its bracket (included) or it can be placed next to a bedside, etc. as stand alone.

The Remote Alarm/Receiver Test-Reset Button:

Located at the bottom right on the front of the Remote Alarm/Receiver.

Long press (hold) the Button for 1 to 2 seconds to activate the Remote Alarm/Receiver. The Alarm will sound from the unit. Long press (hold) the button for 1 to 2 seconds and the alarm sound will end. The GREEN LED Light will blink at sixty (60) second intervals. The Receiver has reset.

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The Remote Alarm/Receiver LED Indicator Light:

Button located on the front of the Remote Alarm/Receiver.

The LED Indicator Light displays three colors depending on function:

Red: Indicating a High Temperature Alarm or Low Power Alert.

Blue Twinkle/Pulse: Indicating Sensor/Transmitter is searching and matching with Remote/Alarm Receiver

Green blink at interval: Indicating devices are matched and system is operating.

3. Simulation Test/Reset For Alarm And Range Scope.

STEP ONE: Following the proper insertion of batteries in both devices:

Press the Ornament Fire Sensor/Transmitter's test-reset button. A BLUE LED will twinkle/pulse quickly indicating that it is attempting to match with the Alarm/Receiver device. Once the Ornament Fire Sensor/Transmitter has matched with the Remote Alarm/Receiver, the LED will light GREEN and flash every twenty (20) seconds while in operation.

STEP TWO:

Press the Remote Alarm/Receiver button. A BLUE LED will twinkle/pulse quickly indicating that it is attempting to match with the Alarm/Receiver device. Once the Ornament Fire Sensor/Transmitter has matched with the Remote Alarm/Receiver, the LED will light GREEN and flash every sixty (60) seconds while in operation.

STEP THREE:

Press (hold) the Ornament Fire Sensor/Transmitter test-reset button for 1 to 2 seconds to activate the Remote Alarm/Receiver Alarm. The Alarm will sound from the unit. The LED light will twinkle/pulse RED. Press (hold) the test-reset button for 1 to 2 seconds on the Remote Alarm/Receiver unit and the alarm sound will end. The GREEN LED Light will blink at sixty (60) second intervals. The Receiver has reset.

MAXIMUM RANGE DISTANCE FOR COMMUNICATION BETWEEN THE DEVICES:

The Ornament Sensor/Transmitter and the Remote Alarm/Receiver can communicate at a maximum range of 90 feet. It is recommended that the user place the Transmitter and Receiver units at a distance less than the maximum range distance and to conduct a Simulation Test of the Transmitter and Receiver communication (Steps ONE-THREE above) from time to time, and every time either the Ornament Sensor/Transmitter or the Remote Alarm/Receiver devices are moved to a new location in order to avoid a lapse in communication between the devices.

NOTE ONE:

If after proper insertion of the batteries, the LED lights or the sound ALARM do not perform in the manner described in this USER MANUAL we suggest the following:

1. Reinsert the batteries in each device and follow all of the steps described and perform a Simulation Test;
2. Replace the batteries in each device and follow all of the steps described and perform a Simulation Test;

3. Make sure that the Fire Sensor/Transmitter and the Remote Alarm/Receiver are within a distance safely under the maximum 90 feet communication range – reduce the distance and repeat steps 1 and 2;
4. Make sure that you are conducting the Simulation Test properly.

If either device is still not performing as described after the user has followed items 1-4 above, DO NOT USE THE SAFER CHRISTMAS TREE ALARM SYSTEM. Please contact Safer Alarms, Inc. in the manner described within your product package and we will replace the Safer Christmas Tree Alarm System or return your purchase price in accordance with our stated policies and warranties.

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4. Normal Working Mode.

After the batteries are inserted correctly, the devices placed within a distance below the maximum communication range, the Simulation Test successfully completed so that the devices have matched and each device indicates a GREEN LED light blinking at the proper interval on each device, the Safer Christmas Tree Alarm System is active.

When the ORNAMENT FIRE SENSOR/TRANSMITTER detects the peripheral temperature to reach greater than 149 degrees Fahrenheit (65 degrees Celsius) it will trigger an alert signal to the REMOTE ALARM/RECEIVER. The alarm on the REMOTE ALARM/RECEIVER will sound and the RED LED on both the ORNAMENT SENSOR/TRANSMITTER and the REMOTE ALARM/RECEIVER will twinkle/pulse quickly.

The ALARM will continue until the user stops the signal by Pressing (hold) the RESET BUTTON on the ALARM/RECEIVER for 1 to 2 seconds. (See STEP TWO of the Simulation Test). The ALARM sound will stop and the LED will return to GREEN. If the ALARM is not reset by the user, the alarm will sound until the batteries run out.

5. False Alarm.

If in the case that the system sounds an alarm, the user should take appropriate safety action. If the REMOTE ALARM/RECEIVER sounds an alarm the likely reason is that the ORNAMENT SENSOR/TRANSMITTER has detected the temperature in the periphery of the UNIT to be at or greater than 149 degrees Fahrenheit (65 degrees Celsius). This is an indication of a fire event taking place or about to take place at or near the Christmas Tree.

If upon inspection, the user makes a personal determination that no fire event is taking place, a false alarm may have occurred. To stop the alarm reset the REMTOTE ALARM/RECEIVER: **Press (hold)** the ORNAMENT FIRE SENSOR/TRANSMITTER button for 1 to 2 seconds until the Red LED light and alarm sound stop and the alert signal terminates. The GREEN LED Light will blink at sixty (60) second intervals. The Receiver has reset.

In the case of any False Alarm, the user should repeat the steps listed in **NOTE ONE** above, to ascertain that the Safer Christmas Tree Alarm devices are in proper working order.

NOTE TWO:

The user should be certain that a fire event is not happening, including hidden, obscured or latent fire events (ie. inside a ceiling or wall, etc.) before manually terminating the REMOTE ALARM/RECEIVER alarm or terminating and resetting the ORNAMENT SENSOR/TRANSMITTER signal.

6. Low Power Indication.

Ornament Fire Sensor/Transmitter: when the battery voltage in the Transmitter is lower than 2.2V, the Red LED will flash twice quickly (2x) every 40 seconds. This indicates that the battery is in low power status. This flash cycle will repeat until the batteries run out.

Remote Alarm/Receiver: when the battery voltage in the Receiver is lower than 3.3V, the Red LED will flash twice (2x) every 40 seconds and beep twice (2x) quickly at the same time. This indicates that the battery is in low power status. This flash and beep cycle will repeat until the batteries run out.

When the devices indicate Low Power Stays, the user should replace the batteries with new batteries to avoid an interruption in the product performance. The Safer Christmas Tree Alarm System will not operate if the batteries run out.

NOTE THREE:

While the product is in Normal Working Mode, if you are concerned that the Ornament Sensor/Transmitter and Remote Alarm/Receiver are not matched or communicating, it is suggested the user should repeat a Simulation Test again to ascertain that the Safer Christmas Tree Alarm System devices are in proper working order.

Low Power

If low power occurs and the product has powered off automatically, replace the battery immediately. The Safer Christmas Tree Alarm System will not operate if the batteries run out.

FAQ

If after proper insertion of the batteries, the LED lights or the sound ALARM do not perform in the manner described in this USER MANUAL we suggest the following:

1. Reinsert the batteries in each device and follow all of the steps described and perform a Simulation Test;
2. Replace the batteries in each device and follow all of the steps described and perform a Simulation Test;
3. Make sure that the Ornament Sensor/Transmitter and the Remote Alarm/Receiver are within a distance safely under the maximum 90 feet communication range – reduce the distance and repeat steps 1 and 2;
4. Make sure that you are conducting the Simulation Test properly.

If either device is still not performing as described after the user has followed items 1-4 above, **DO NOT USE THE SAFER CHRISTMAS TREE ALARM SYSTEM.** Please contact Safer Alarms, Inc. in the manner described within your product package and we will replace the Safer Christmas Tree Alarm System or return your purchase price in accordance with our stated policies and warranties.

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Important Safety Instructions

When using electrical products, basic precautions should always be followed including the following:

- a) READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
- b) The Safer Alarms Christmas Tree Alarm System is designed for Indoor Use Only.
- c) This seasonal use product is not intended for permanent installation or use.
- d) Do not mount or place near gas or electric heaters, fireplaces, candles or other similar sources of heat.
- e) Do not secure the wiring of the product with staples or nails, or place on sharp hooks or nails.
- f) This is an electric product – not a toy! To avoid risk of fire, burns, personal injury and electric shock it should not be played with or placed where small children can reach it.
Exception: An ornament shall instead be marked with the following: This is an electric product – not a toy! It should not be played with or placed where small children can reach it.
- g) Do not use this product for other than its intended use.
- h) Do not hang ornaments or other objects from cord, wire, or light string.
- i) Do not close doors or windows on the product as this may damage the wire insulation.
Exception: An ornament need not include this marking.
- j) Do not cover the product with cloth, paper or any material not part of the product when in use.
- k) Read and follow all instructions that are on the product or provided with the product.
- l) SAVE THESE INSTRUCTIONS

Use and Care Instructions

- a) When the product is placed on a live tree, the tree should be well maintained and fresh. Do not place on live trees in which the needles are brown or break off easily. Keep the tree holder filled with water.
- b) If the product is placed on a tree, the tree should be well secured and stable.
- c) Before using or reusing, inspect product carefully. Discard any products that have cut, damaged or frayed wire insulation or cords, cracks in the lamp holders or enclosures, loose connections, or exposed copper wire.

- d) When storing the product, carefully remove the product from wherever it is placed, including trees, branches, or bushes, to avoid any undue strain or stress on the product conductors, connections, and wires.
- e) When not in use, store neatly in a cool, dry location protected from sunlight.

LIMITED WARRANTY AND PERIOD OF COVERAGE

Safer Alarms, Inc. ("Safer Alarms"), Stamford, CT, warrants that the within product will be free from defects in workmanship and materials for a period of one (1) year from the date of delivery following the original retail purchase (the "Warranty Period"). If the product fails to conform to this Limited Warranty during the Warranty Period, Safer Alarms will, at its sole option, either repair or replace this product or any component of the product found to be defective during the Warranty Period. Replacement will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is the sole and exclusive remedy for breach of this Limited Warranty. Any product that has either been repaired or replaced under this Limited Warranty will be covered by the terms of this Limited Warranty for the longer of (a) ninety (90) days from the date of delivery of the repaired product or replacement product, or (b) the remaining Warranty Period. This Limited Warranty is transferable from the original purchaser to subsequent owners, but proof of the original purchase must be provided. The Warranty Period will not be extended in duration or expanded in coverage for any such transfer.

Technical Specification

Output Power: max for Transmitter 3mW, for receiver, 360mw

Frequency bandwidth: 350MHz-450MHz, ASK

Input Power:

For Receiver, DC 4.5V 3 cells

For Transmitter, DC 3.0V 2 cells

Average power consumption: 50uA including both Transmitter and Receiver.

Maximum Power Consumption: receiver, 80mA, Transmitter, 1mA

Accessories Included

A Christmas Tree Ornament Sensor/Transmitter

A Remote Alarm/Receiver with bracket mount and two screws

**** saferalarms™ Christmas Tree Ornament Sensor and Remote Alarm require "AA" batteries which are not included in this package****