



**CS-602**  
**AUDIO DETECTOR**  
patent pending



A Universal Electronics Company

## Installation Manual & Users Guide

### SPECIFICATIONS

Frequency: 345MHz

Battery: One 3Vdc lithium CR123A

Battery life: up to 4 years

Detection distance: 6 in max

Operating Temperature: 32°-120°F(0°-49°C)

Operating Humidity: 5-95% RH non-condensing

Compatible with 345MHz ClearSky Hub

Supervisory signal interval: 70 min(approx.)

Maximum current draw: 23mA during transmission

### OPERATION

The Fire Fighter™ sensor is designed to listen to any smoke, carbon or combo detector. Once confirmed as an alarm, it will transmit a signal to the alarm control panel which if connected to a central monitoring station, will dispatch the fire department.

**WARNING:** This audio detector is intended only for use with smoke, carbon and combo detectors but it does not detect the presence of smoke, heat, or fire directly.

### ENROLLING

To enroll the sensor remove the top cover by depressing the friction tab in order to reveal the battery. Pull and discard the battery plastic tab to turn on the device.

Download and install ClearSky App on your android or IOS phone.

Open your ClearSky APP and follow the directions on the app to learn in the sensor.

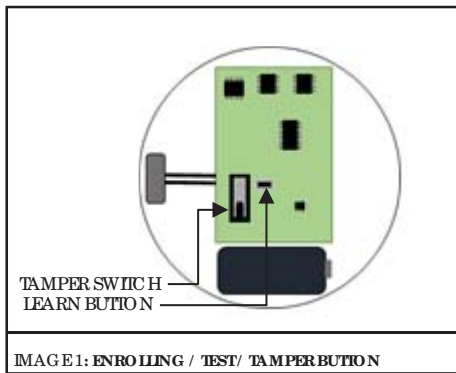
App will require you to press the learn button when linking (Image 1).

There are 2 modes of detection on the Fire Fighter™. Mode 1 is smoke only and Mode 2 is smoke and carbon monoxide alert detection. To switch between modes, remove the battery, press and hold the tamper switch and learn button until a red LED turns on. Let go of tamper and learn button. 1 red blink indicates smoke alert detection. 2 red blinks indicates smoke + CO alert detection.

### MOUNTING

Included with this device is a mounting bracket, hardware and double sided tape. To ensure proper operation ensure the side of the device with the small holes is directly facing the sounder holes on the smoke detector. Secure the mounting bracket to the wall or ceiling using the two mounting screws and double sided tape provided, then secure the audio detector to the mounting bracket using the small screw provided. **The Fire Fighter™ must be mounting within 6 inches of the detector for optimal operation.**

**WARNING:** Non-interconnected smoke detectors require an audio detector by each smoke detector sounder. This equipment should be installed in accordance with Chapter 2 of the National Fire Alarm Code, ANSI/NFPA 72, (National Fire Protection Association, Batterymarch Park, Quincy, MA 02269). Printed information describing proper installation, operation, testing, maintenance, evacuation planning, and repair service is to be provided with this equipment. Warning: Owner's instruction notice: 'Not to be removed by anyone except occupant'.



## TESTING

To test the RF transmission from the mounted position you can either generate a tamper by removing the cover or press the learn button located next to the tamper switch. Press and release ONCE to send a Smoke signal or press and HOLD for 2 seconds to send a Carbon signal. To test the audio detection, press and hold the smoke detector test button. Press and hold the smoke detector button for at least 30 seconds to ensure that Fire Fighter™ has had sufficient time to identify the smoke alarm pattern and lock into alarm. Ensure the Fire Fighter™ cover is on and that you wear hearing protection.

NOTE: This system must be checked by a qualified technician at least once every three (3) years. Please test the unit once per week to ensure proper functionality.

## LED

The Fire Fighter™ is equipped with a multi-color LED. When a valid audio signal is heard the LED will turn red and flash in sequence to the smoke detector sounder. When the Fire Fighter™ has determined the audio signal heard is a valid alarm, the LED will turn solid green to indicate it has transmitted to the panel. The LED will blink yellow following the detected alarm tone. On power up, the LED will blink red to show which mode it is in, once for smoke only, twice for smoke + CO detection mode.

## REPLACING THE BATTERY

When the battery is low a signal will be sent to the control panel. To replace the battery:

- 1) Remove the Fire Fighter™ from installation location by sliding the unit off the wall/ceiling mount in the direction indicated on the Fire Fighter™ Cover.
- 2) Unscrew the two screws on the back of the Fire Fighter™. Remove the top cover by depressing the friction tab in order to reveal the battery. (This will send a tamper signal to the control panel.)
- 3) Replace with a Panasonic CR123A battery ensuring the + side of the battery faces as indicated on the device.
- 4) Re-attach the cover; you should hear a click when the cover engages properly. Then replace the screws removed in step 2.
- 5) Replace the unit on the mounting plate from step 1.

**WARNING:** While the audio detector monitors its own battery, it does not monitor the battery in the smoke detectors. Batteries should be changed as per the original smoke detector manufacturer's instructions. Always test the audio detector and smoke alarms after battery installation to confirm proper operation.

## PACKAGE CONTENTS

### Included Items:

- 1 x Fire Fighter™ Wireless Audio Detector
- 1 x Mounting Plate
- 2 x Mounting Screws
- 2 x Double Sided Tape
- 1 x CR123A battery
- 1 x Installation Manual



## FCC Compliance Statement

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC Rules. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and  
(2) this device must accept any interference received, including interference that may cause undesired operation. 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 instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet on a different circuit from the receiver
- Consult the dealer or an experienced radio/TV contractor for help.

Warning: Changes or modifications not expressly approved by Ecolink Intelligent Technology Inc. could void the user's authority to operate the equipment.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and  
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme la norme d'Industrie Canada exempts de licence RSS. Son fonctionnement est soumis aux deux conditions suivantes:

(1) cet appareil ne peut pas provoquer d'interférences, et  
(2) cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

FCC ID: XQC-CS602 IC:9863B-CS602

## Warranty

Ecolink Intelligent Technology Inc. warrants that for a period of 2 years from the date of purchase that this product is free from defects in material and workmanship. This warranty does not apply to damage caused by shipping or handling, or damage caused by accident, abuse, misuse, misapplication, or ordinary wear, improper maintenance, failure to follow instructions or as a result of any unauthorized modifications. If there is a defect in materials and workmanship under normal use within the warranty period Ecolink Intelligent Technology Inc. shall, at its option, repair or replace the defective equipment upon return of the equipment to the original point of purchase.

The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of Ecolink Intelligent Technology Inc. neither assumes responsibility for, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product. The maximum liability for Ecolink Intelligent Technology Inc. under all circumstances for any warranty issue shall be limited to a replacement of the defective product. It is recommended that the customer check the equipment on a regular basis for proper operation.

THE LIABILITY OF ECOLINK INTELLIGENT TECHNOLOGY INC., OR ANY OF ITS PARENT OR SUBSIDIARY CORPORATIONS ARISING FROM THE SALE OF THIS SMOKE ALARM DETECTOR OR UNDER THE TERMS OF THIS LIMITED WARRANTY SHALL NOT IN ANY CASE EXCEED THE COST OF REPLACEMENT OF A SMOKE ALARM DETECTOR AND, IN NO CASE, SHALL ECOLINK INTELLIGENT TECHNOLOGY INC., OR ANY OF ITS PARENT OR SUBSIDIARY CORPORATIONS BE LIABLE FOR CONSEQUENTIAL LOSSES OR DAMAGES RESULTING FROM THE FAILURE OF THE SMOKE ALARM DETECTOR OR FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE COMPANY'S NEGLIGENCE OR FAULT.



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