firefighter™ / WST-600 AUDIO DETECTOR
US Patent # 9,087,447

Installation Manual & Users Guide

SPECIFICATIONS

Frequency: 433.92MHz

3Vdc lithium CR123A (1550 mAh)

Battery life: 4 years

Detection distance: 6 in max

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

Operating Humidity: 5-95% RH non condensing

Compatible with 433MHz DSC Security Systems

Supervisory signal interval: 64 min(approx.)

OPERATION

The FireFighter™ 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.

ENROLLING

Follow the instructions provided by your control panel, or wireless receiver manual. The 6 digit serial number is printed on back of each device. To monitor smoke alarms, when prompted by the panel, enter the 6 digit serial number as printed on the device. Use either zone type 88 (Standard 24 hour fire) or type 87 (Delayed 24 hour fire). Remember to set the wireless bit (bit 8) for that zone attribute.

To monitor a CO detector, take the printed serial number and replace the first digit with an 8. For example if the number printed is 436A48, you would use 836A48 as the serial number for the CO portion. Use zone type 81 (24 hour Carbon Monoxide).

MOUNTING (see IMAGE: 2)

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 FireFighter™ must be mounting within 6 inches of the detector for optimal operation.**

***** It is possible that the sensor can hear other smoke detectors in close proximity so it is important to choose and to install the sensor close to a detector that is relatively isolated from other detector. It that is not possible, the sensor will still function it will however take longer to register and transmit to the panel. Smoke detectors to avoid are typically ones mounted in hallways outside of bedrooms that will also have additional smoke detectors.

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 (see IMAGE: 1)

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.

Within the first hour of power up the sensor is in a test mode. This mode is designed to work with the test button of the smoke detector so that only 1 or 2 temporal patterns is required to trigger the sensor. After the 1 hour has elapsed the sensor will require at least 3 rounds of either temporal 3 (smoke) or temporal 4 (CO) before it will send a transmission to the control panel. . Ensure the FireFighter™ cover is on and that you wear hearing protection when doing the audio testing. Then simply press and hold the smoke detector test button.

If 24 Hr, delay fire zone type is used the alarm must be active for 30 second before the panel will transmit to the Central Station.

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.

Legacy Smoke Detectors

All Smoke detector should be replaced after 10 year. If you encounter a smoke detector that does not support Temporal 3 pattern, that smoke should be replaced as per the manufacturer recommendation.

If replacement is not an option the FireFighter can be program to detect non-temporal detectors.

**** In this mode, the sensor must not be located near any other audible device, like the security keypad or sounder. Those can be misconstrued as a valid smoke alarm.** To enter this mode press and hold the tamper button while inserting the battery. Release the tamper switch and note the LED

> ONE flash: Only a Temporal 3 and 4 signal will trigger an alarm (Default)
> TWO flashes: Generic listening mode. (Will trigger after 30 seconds of continuous sound)

You can verify the mode the device is in by simply removing the battery and replacing it. The LED will flash once or twice depending on the mode it is in. Repeat the steps above to change the mode as required.
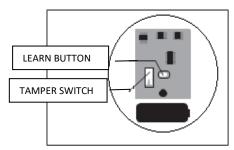
REPLACING THE BATTERY

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

1. Remove the top cover to reveal the battery. This will send a tamper signal to the control panel.
2. Replace with a Panasonic CR123A battery ensuring the + side of the battery faces as indicated on the device.

3.   Re-attach the cover, you should hear a click when the cover engages properly.

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
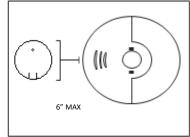

LEARN BUTTON

TAMPER SWITCH

6" MAX

IMAGE 1**: ENROLLING / TEST / TAMPER BUTTON**   IMAGE 2**: INSTALLATION DISTANCE**

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. 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 license-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.

FCC ID: XQC-WST600 IC: 9863B-WST600

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, 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 their 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.
The Firefighter™ detector does not detect the presence of smoke, heat, or fire directly. It relies solely on the presence of an audio alarm signal generated by an existing smoke or fire detector in proximity to the Firefighter™ detector to make such a determination. The Firefighter™ detector must be used with smoke detectors certified according to UL Standards, and in strict accordance with the installation and operation instructions provided with such detectors. It is the owner's responsibility to ensure that smoke or fire detectors used in conjunction with the Firefighter™ detector are maintained and tested on a regular basis in accordance with the manufacturer's instructions. Ecolink Intelligent Technology Inc. expressly disclaims any responsibility for the failure of the Firefighter™ detector to detect the presence of smoke or fire due to the failure of any smoke or fire detector used in conjunction with the Firefighter™ detector to operate properly due to any condition, including improper installation, operation, maintenance or testing of such smoke or fire detector**.**

![Ecolink intelligent technology]

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