

**WIRELESS DETECTION INC.**

**APARTMENT  
ALERT SYSTEM**

**SYSTEM MANAGER  
USER GUIDE**

**MODEL SM002**

**Preliminary Manual**

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# Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Head all warnings.
- 4) Follow all instructions.
- 5) Clean with only dry cloth.
- 6) Do not install near any heat sources such as radiators, heat-registers, stoves or other apparatus that produce heat.
- 7) Improper installation of this device, may affect the operation of the apparatus.
- 8) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as liquid has been spilled or objects have fallen into the apparatus, does not operate normally, or has been dropped.
- 9) There is no user serviceable part inside.

## FCC NOTE: (For U.S.A. and Canada)

- 1) Changes or modifications not expressly approved by Wireless Detection Inc. could void the user's authority to operate the equipment.
- 2) This product has been tested and complies with the specifications 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 to the instructions, may cause harmful interference to radio or television reception, which is found 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:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment or devices.

Connect the equipment to an outlet other than the receiver's.

Consult a dealer or an experienced radio/TV technician for assistance.

- 3) The antenna used for this device must be installed to provide a separation distance of at least 20cm (8 inches) from all persons, and must not be co-located or operating in conjunction with any other antenna or transmitter other than those contained within this device.

**NOTICE:** This equipment complies with the FCC RF Exposure Limits. A minimum of 20 centimeters (8 inches) separation between the device and the user and all other persons should be maintained.

# Operation

The System Manager (SM002) provides a link between the System Repeater (SR002) and the computer via an RS232 communication link. When the System Manager receives a transmission, the data is analyzed for validity, and then sent to the computer. After the data has been determined to be valid, the System Manager re-transmits the data with an acknowledge bit inserted, informing the Fire Warning System (FWS002) that a valid transmission has been achieved.

When a alarm condition is detected, which is either the detection of smoke and or an over temperature condition exist, then the ALARM LED will start flashing and the ALARM SOUNDER will start chirping.

To extinguish the ALARM LED and the ALARM SOUNDER, press the reset button. If the alarm condition is still present, then the ALARM LED and the ALARM SOUNDER will reactivate after 15 seconds. If the reset button is not pressed, then the alarm will reset after 30 seconds.

# Features

900 MHZ Spread Spectrum Transceiver Design.

62 channels of operation, gets the signal through.

96 bit protocol and checksum error detection eliminates false alarms due to radio interference.

Complete Wireless operation.

CW test mode; for analyzing the placement of repeaters.

# Installation Instructions

## Where to place the System Manager

The System Manager should be placed at a location that is capable of having good reception from the System Repeater and having access to the computer station.

## Where not to place the System Manager

Do not place the System Manager behind any brick walls, trees, or shrubbery.

Do not place the System Manager inside any type of vault.

## Putting the System Manager in CW mode for test

**During the installation process, it may be necessary to transmit the carrier signal for determining the proper placement of the System Repeaters; this test also provides a useful means for determining if any of the System Repeaters needs to be linked.**

- 1) Open the System Manager, with the security key.
- 2) Press and hold the alarm reset switch until the sounder starts chirping. The unit is now in CW mode.
- 3) To exit CW mode, press and hold the alarm reset switch until the sounder stops chirping. The unit is now ready for normal operation.

***WARNING: After performing the CW test, the System Manager must be placed back in normal operation, that is; the sounder is not chirping. Failure to do so; will cause catastrophic system failure.***

- 4) Close the System Manager and lock

## Installation

***WARNING: The System Manager requires the use of a 120VAC power converter; the 120VAC source must be constant. Failure to do so may cause catastrophic system failure.***

- 1) Connect the power module to a 120VAC power source.
- 2) Connect the 12VDC power module connector to the System Manager.
- 3) Connect the Serial cable between the computer and System Manager.

***WARNING: The System Manager must be installed to provide a separation distance of at least 20cm, (8 inches) from all persons. Changes or modifications not expressly approved by Wireless Detection Inc. could void the user's authority to operate the equipment. There are no user serviceable parts, for making adjustments to the power gain, antenna or operation of the transceiver.***

**This is where the user instructions for mounting the System Manager to an exterior location is placed.**

# SPECIFICATIONS

## General

Power requirements	12VDC Power Module
Power consumption when transmitting	2.1W
Power consumption in standby	> 360mW
Sounder Specifications	70dB at 1ft (30.48 cm).
Weight	? lbs
Dimensions	?(W) x ?(H) x ?(D)
Operating temperature	32°F to 158°F (0°C to 70°C)
Color	white cover

## Transmitter specifications

Transmitter type	900MHZ. ISM FSSH
Operating band	902 to 928 MHZ
Channels	62
Modulation	FSK
Channel Bandwidth	118.2KHZ.
Transmitting power	3/4W

# **WARRANTY**

This manual is complete except for detailed descriptions on how to physically mount the unit, any company logo's to be included, warrant notices and liability disclaimers.

This manual is subject to change without notice.