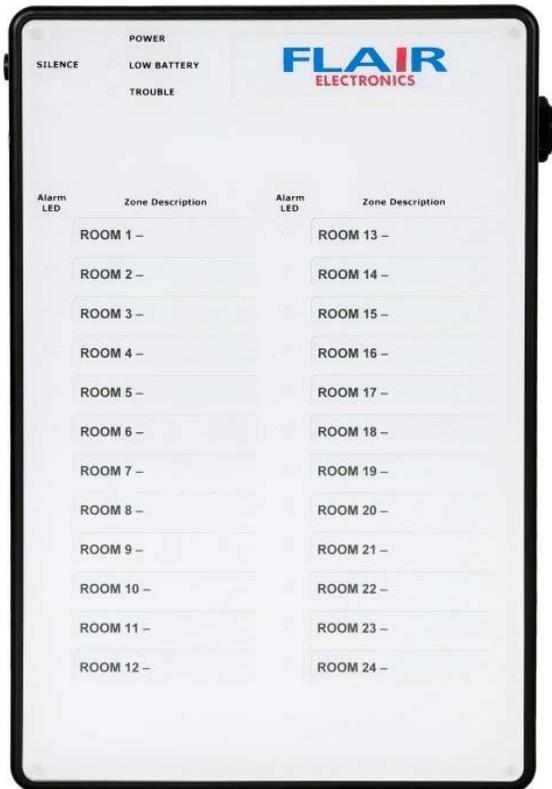# Instruction Manual
Wireless Annunciator

Model ENS24-F and ENS32-F

1-20

Rev B

Table of Contents

Introduction

Flair Wireless Annunciators come with a standard zone identification graphic or can be made with custom graphic displays also.

This Manual describes the basic installation and operation of the Flair Wireless Annunciator, Models ENS24-F and ENS32-F.

Built to last the test of time by Flair.

Features

- 24 and 32 Room or Zone Count
- State of the Art Microcontroller
- Highly Visible, Easy to Customize Display
- Individual Zone Status LEDs
- Single Touch Common Silence and Test
- Easy to register multiple transmitters
- One Common Open Collector Output and one common SPDT Relay

General Specifications

- Surface Wall Mount with Black Plastic Enclosure
- Built-In Inovonics Serial Receiver

- Works with most Inovonics Transmitters
- Piezo Sounder with Adjustable Baffle, Full Open 89 Decibels at 24 inches
- Common Zone SPDT Relay
- ENS24 and ENS32 Options:

  -A = 12 VDC Power Supply with Plug-In Transformer

  -AB = 12 VDC Power Supply, Plug-In Transformer and 5 Ah Back Up Battery

  -F = Non-Latching Red Alarm LEDs. LEDs follow the status of the transmitter and will automatically clear when the transmitter clears.

System Overview
General

The Flair ENS24/ENS32 Wireless Annunciator utilizes an Inovonics Receiver, Model EN4200, Security Only. A Flair Control Board interfaces with this receiver to monitor Inovonics Security Transmitters and annunciate status via LEDs and sounder.

The Flair ENS24/ENS32 Annunciator will also work with Inovonics Repeaters.

Once a Transmitter broadcasts an alarm the corresponding LED on the Annunciator will flash red and the Piezo will sound.

Pressing the Silence Button on the upper right side of the Annunciator will silence the Piezo and steady the red LED.
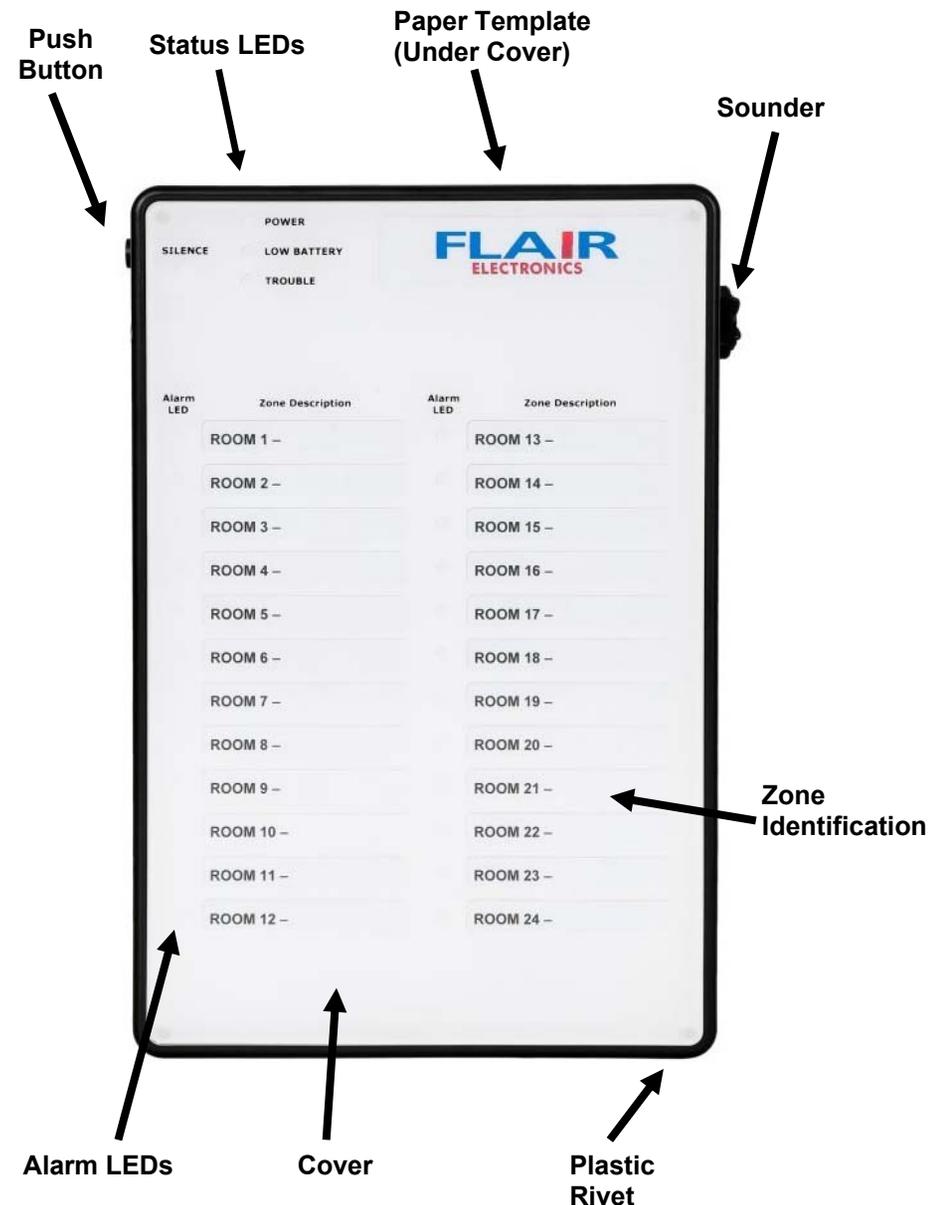
For Non-Latching configuration (-F) the red LED will automatically clear when the transmitter is restored.

LEDs at the top of the Annunciator will indicate status of annunciator power, transmitter battery charge or receiver/transmitter trouble.
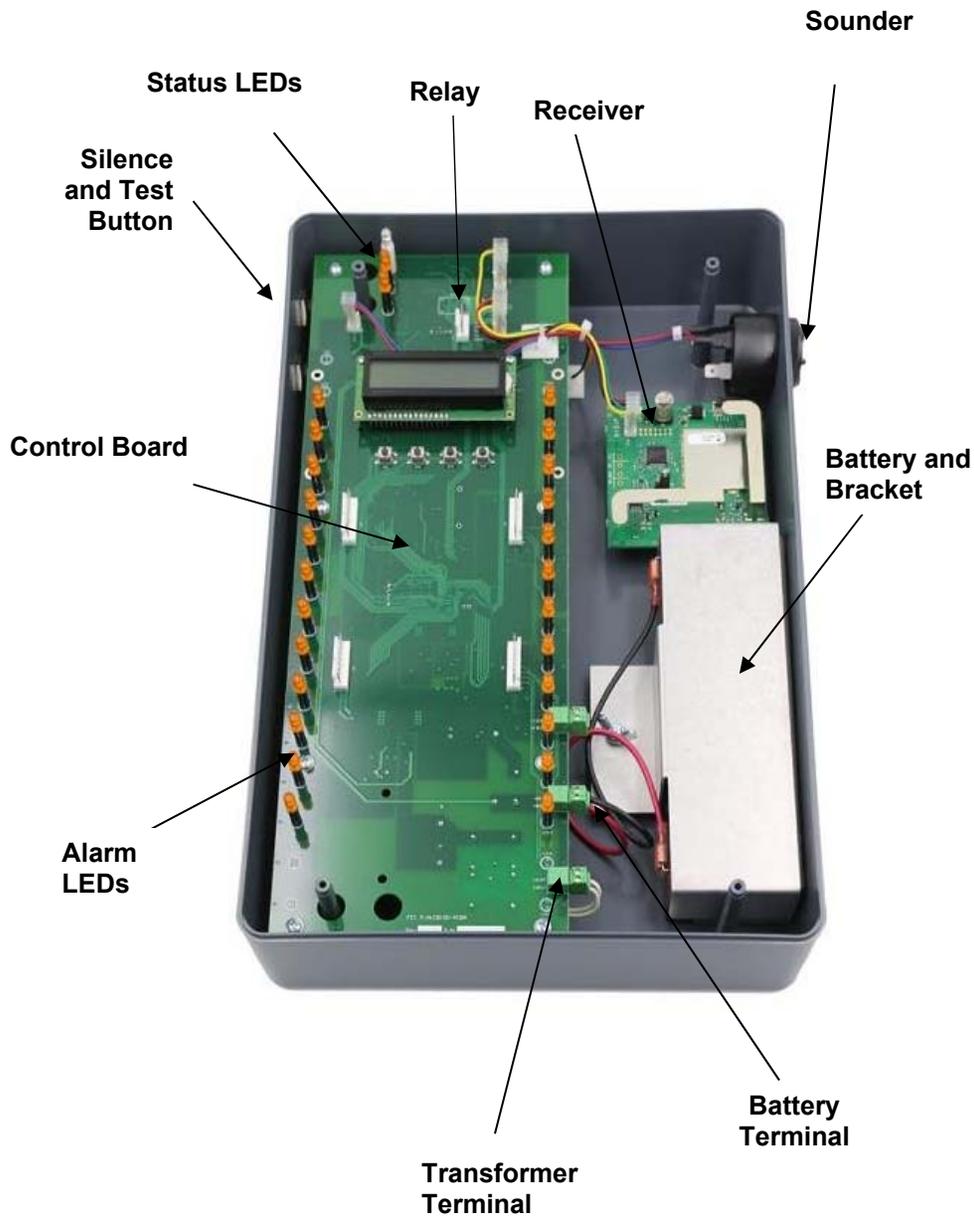
Registration of Transmitters is performed with an internal LCD Screen and four Buttons. Registration of Transmitters and operation of the Annunciator is very easy and intuitive. A new security system can be set up in minutes.

IMPORTANT: Test all the transmitters and repeaters that are part of the security system on a regular basis.
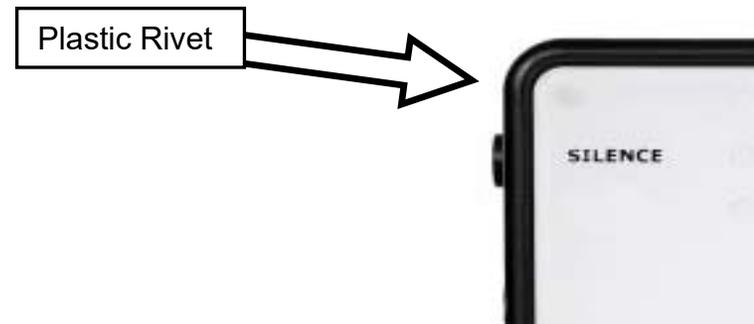
Annunciator – Outside
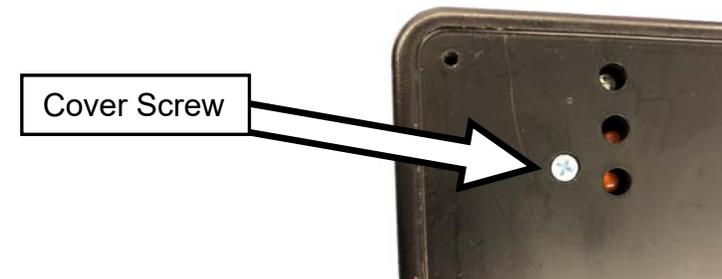
Annunciator - Inside

Sounder

Status LEDs

Relay

Receiver

Silence and Test Button

Control Board

Battery and Bracket

Alarm LEDs

Battery Terminal

Transformer Terminal

1. Removing Front Graphic Cover and Case Lid

Remove the Front Graphic Cover by grabbing the edge with your fingers and gently lifting up. The rivet will pop out of the hole Run your fingers around the cover gently pulling up the three remaining rivets until the cover is free from the front of the Annunciator. Keep the rivets in safe place for re-installation. Remove the cover and zone identification template.
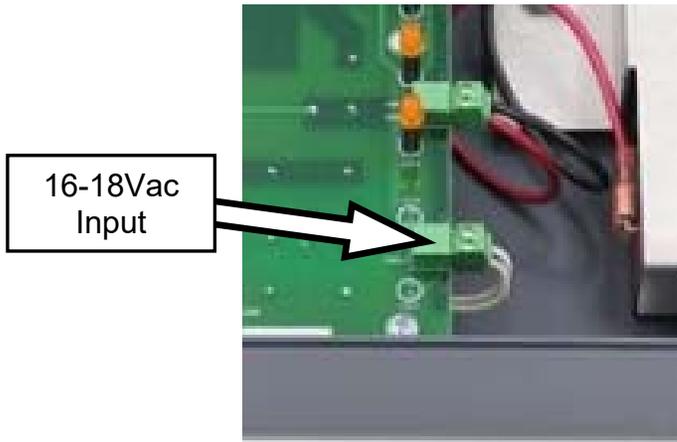
Plastic Rivet

SILENCE

Remove the four corner screws under the cover. These screws secure the front lid of the Annunciator to the back panel. Keep screws in a safe place for re-installation.

Cover Screw

2. Prepare for Benchtop Setup and Testing

*** It is recommended that you initially setup the annunciators and enroll all transmitters on a benchtop prior to installing in the field.

Cut a length of wire to connect 110 VAC Plug-In transformer to Annunciator power supply. Use minimum #22 AWG wire.
Connect transformer to power supply "AC", 16 – 18 VAC.

16-18Vac Input

Prepare all transmitters to enroll into Annunciator
1. Install batteries in all transmitters
2. Leave transmitter covers off to allow access to transmitter reset button
3. Arrange transmitters in order of zone number, one transmitter per zone
4. Label transmitters with marker or tape with zone number.

With Annunciator powered and transmitters prepared, you may begin to enroll transmitters.

3. Enrolling Transmitters

Enrolling of the transmitters is done using the LCD display and 4 buttons below it to navigate the programming menu.

Press "ENTER" to enter programming mode.

Passwords are a 5-digit number, the Default password is "00000".

Pressing "Enter" will automatically enter "0" in each digit as you press it. Press the "Enter" button 5 times to enter the default password of "00000".
You may edit each digit to another number if the password has been changed by using the Up or Down button.

Once the password has been entered, you will see the first programming menu option "ENROLL TX?"
You may select other programming options by pressing the "UP" or "DOWN" buttons.
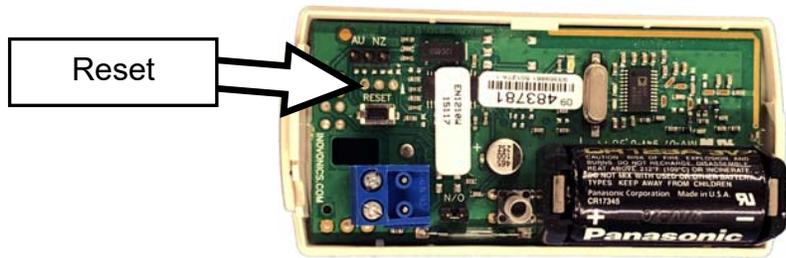

To begin enrolling transmitters, with "ENROLL TX?" being displayed on the LCD, press "ENTER"

You will be prompted to "RESET DEVICE".

The cover of the transmitter must be removed in order to access the reset switch. Press the reset on the transmitter

Reset

Enter the zone number that you wish to assign the transmitter from 1 to 32. Use "Up" or "Down" to change transmitter number.

Press "Enter".

When the transmitter has been successfully assigned to a zone the display will show "REG ZONE: ##".

Press "Enter".
You may continue enrolling transmitters

Press "Up" or "Down" to scroll thru the menu for other options or press "BACK" to exit programming mode. Screen will go blank.

If the transmitter is already registered to another zone you will see the message "DEVID: ## REG ERASE? [Y]"

Press "BACK" to register another transmitter. Press "ENTER" to erase transmitter registration and register this transmitter to another zone.

4. Other Menu Options:

There are several other programming functions available after entering the programming menu. More details may be found in the installation manual.

1. Deleting transmitters
2. Enrolling/Deleting Reset Transmitters – Not Recommended
3. Enrolling/Deleting Repeaters – Not Recommended
4. Change Password

5. System Operation

5.1. General Wireless Transmitter

Wireless transmitter will send any status changes immediately to the EN4200 Receiver. In addition, the transmitter will periodically transmit a status update to confirm operation.

5.2. Zone Alarm (Red LED)

OFF: The transmitter is secure, or the zone has no transmitter registered to it.

FLASH: When the registered transmitter is in an "Alarm" or "Tamper" condition

ON: The Alarm condition has been acknowledged by the Acknowledge push button.

PULSING:

1. The associated transmitter for that zone has a low battery, the Low Battery LED will also be on.

2. The associated transmitter for that zone is not working, a repeater is not working, or the transmitter is not in the area. The Trouble LED will also be on.

5.3. External Audible Sounder

Turn baffle on outside of sounder to adjust loudness.

ON STEADY: The audible sounder will turn on steady when any zone in an "Alarm" or "Tamper" condition.

CHIRP: The audible sounder will begin to chirp when any zone is in a "Trouble" or "Low Battery" condition. It will turn off when the condition is cleared. There will generally be an associated Zone LED that will pulse when the audible sounder chirps.

5.4. Silence and System Test Push Button

The -F, Non-Latching configuration, has one push button on the upper left side. This button is used to silence or perform a system test on the Annunciator and the Control Board.

Silence ➡

Silence: If pressed when any zone is in alarm, Red LED flashing and Audible sounder on, the audible sounder will turn off and the zone Alarm Red LED will change from flashing to steady

Lamp/Audible Sounder Test

During normal operations with no "Alarm" messages, the Silence push button may be pressed for 5 seconds and will cause:

1. The Audible sounder to chirp 2 times
2. All the LEDs to flash for 3 seconds
3. The Relay to turn on for 3 seconds
4. The Audible sounder to chirp 3 times

Note: If transmitter is still sending a "Low Battery", "Missing", "Alarm" or "Tamper" message then that Alarm LED and the audible sounder will continue to stay on or flash. For -F, Non-Latching configuration, the relay output will turn off after transmitter clears and a "Secure" status message has been received.

5.5. Power LED

ON Green: During normal AC operation

ON Red: During DC operation, Loss of AC Power

OFF: Loss of all power, AC and Battery

FLASHING Red: When there is a backup battery and the voltage drops below 10.7 Volts.

FLASHING Green Yellow: When AC operation is restored but battery is not charged above 10.7 Volts. Continuous Green Yellow flashing may mean that battery is no longer good.

5.6. Common Transmitter Low Battery LED

OFF: During normal transmitter operation

ON: When the annunciator receives a "Low Battery" message from any enrolled transmitters or device. It will automatically turn off when the low battery condition is corrected by replacing the battery of the transmitter or device.

5.7. Common Trouble LED

OFF: During normal operation

ON: When the annunciator fails to receive a check in message from any enrolled transmitter or device.

5.8. Internal Audible Sounder

OFF: During normal operation

ON: The internal audible sounder will turn on steady when AC power has been interrupted or the backup battery drops below 10.7 Volts. The audible sounder will remain on until the acknowledge button has been pressed and held for 1 second.

5.9. SPDT Relay Output

OFF: All zones are in a secure condition

ON: When any zone is in an alarm condition

6. Transmitter / Zone and Repeater Table

Transmitter Number	Zone Identification
1	
2	
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Flair Electronics

212 Mercury Circle
Pomona, CA 91768

Phone (909) 568-0063
Fax (909) 568-0151

www.flairsecurity.com