Instruction Manual
Wireless Annunciator

Model 580-24 and 580-32

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Introduction

Flair Wireless Annunciators are the most compact and sophisticated of their kind. They are available in several mounting styles: Desk Top or Surface Wall Mount. Built using a State of the Art Micro-Controller and the Inovonics Serial Receiver, these wireless annunciators will work with most Inovonics transmitters and most Inovonics private labeled transmitters.

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 580-24 and 580-32.

Built to last the test of time by Flair.

"State of the Art, Micro-Controller"

Features

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

General Specifications

- Mounting Configuration
    - 580-24 and 580-32: Surface Wall Mount, Black Plastic Enclosure, No Power Supply

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

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

- Power Requirements
    - 12Vdc 200ma – 10Vdc min, 16Vdc max

- 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

System Overview

General

The Flair 580-24 Wireless Annunciator utilizes an Inovonics Serial Receiver, Model EN4200, Security Only. A Flair Control Board interfaces with this receiver to monitor Inovonics transmitters and annunciate status via LEDs and sounder. The following Inovonics transmitters are currently set up to work with the 580-24 Annunciator.
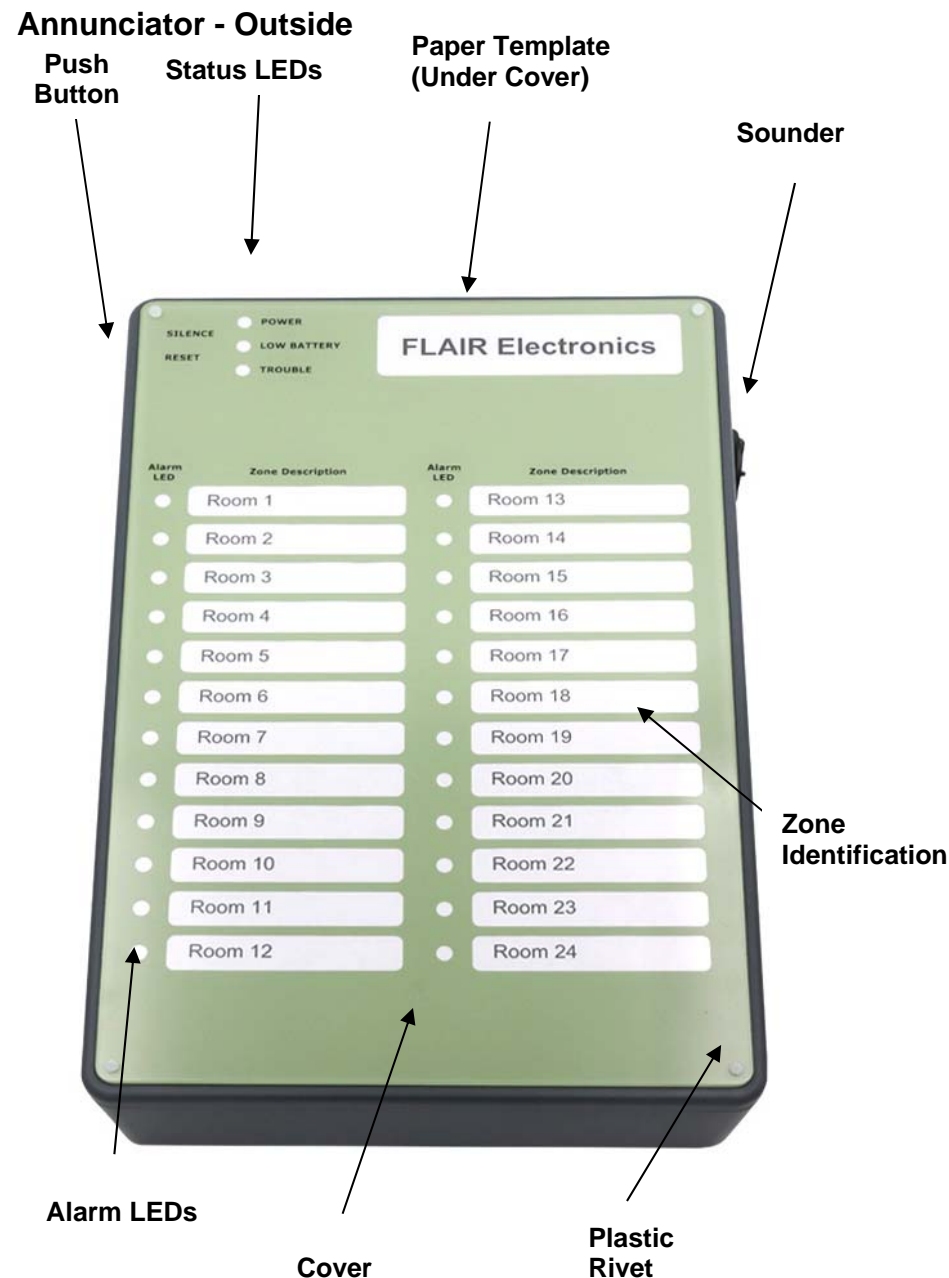
EN1210 – Single Input Universal
EN1210W – Door/Window with Reed Switch
EN1210EOL – Single Input Universal, EOL Protection
EN1212 – Dual Input Universal
EN1215 – Universal with Wall Tamper
EN1215W – Universal with Wall Tamper and Reed Switch
EN1215EOL – Universal with Wall Tamper, EOL Protected
EN1215WEOL - Universal with Wall Tamper and Reed Switch, EOL
Protected
EN1216 – Dual Input with Wall Tamper
EN1223D – Double Button Pendant
EN1223S – Single Button Pendant
EN1233D – Double Button Pendant
EN1233S – Single Button Pendant
EN1235D – Double Button Pendant
EN1235DF – Double Button Fixed Hold Up
EN1235S – Single Button Pendant
EN1235SF – Single Button Fixed Hold Up
EN 1242 – Smoke Detector
EN1247 – Glass Break
EN1249 – Bill Trap
EN1252 – Single Button Long Range Universal
EN1260 – Motion Sensor
EN1261 – Motion Sensor
EN1261HT – Motion Sensor
EN1262 – Motion Sensor
EN1265 – Motion Sensor

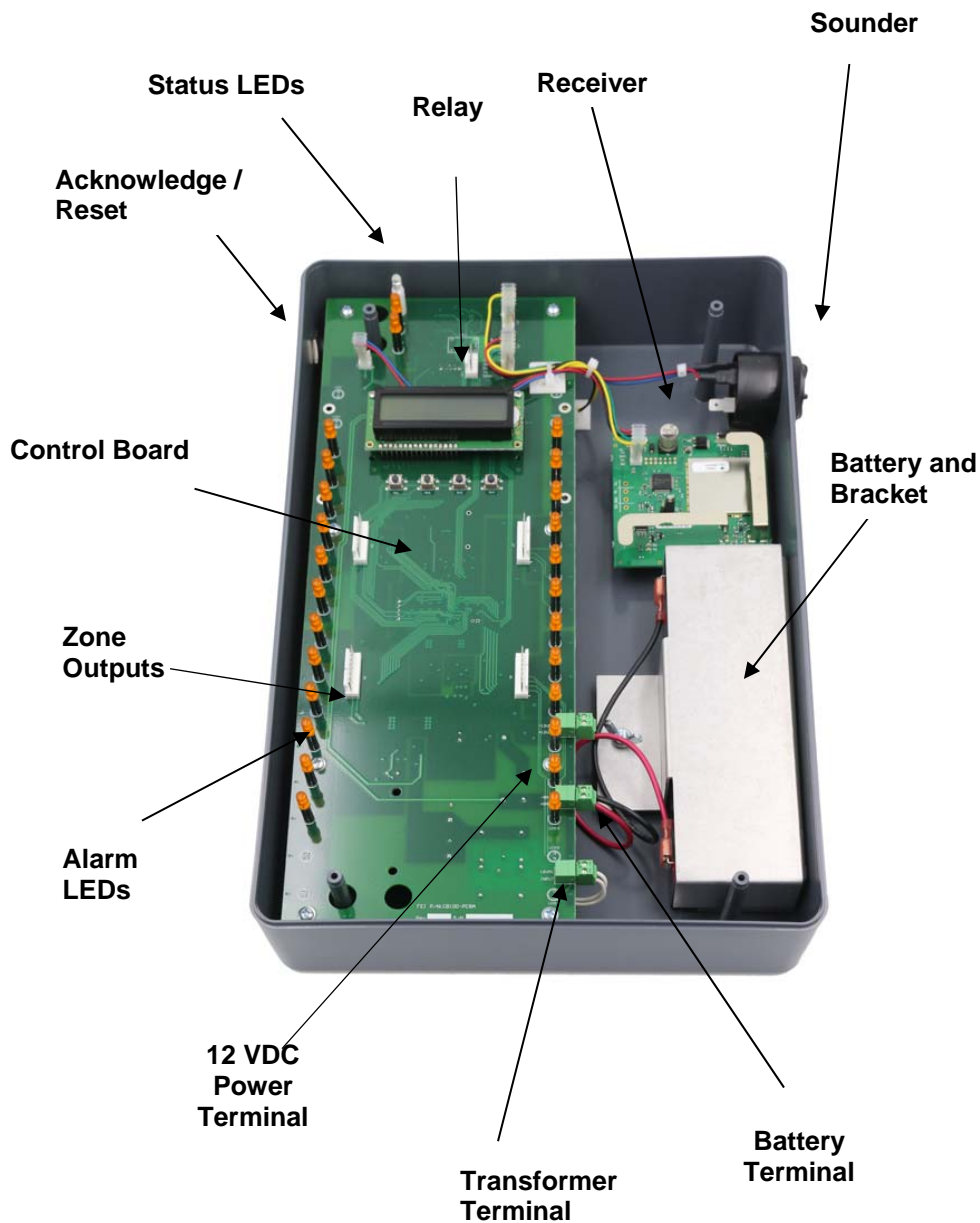The Flair 580-24 Annunciator will also work with Inovonics Repeaters.

Once a Transmitter broadcasts an alarm the corresponding LED on the
Annunciator will flash red and the Piezo will sound. Pressing the
Acknowledge Button on the upper right side of the Annunciator will
silence the Piezo and steady the red LED. Once the Transmitter is
restored, pressing the Annunciator Silence/Reset Button will reset the
red LED. LEDs at the top of the Annunciator will indicate status of
annunciator power, transmitter battery charge or receiver/transmitter
trouble.

Registration of new 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 of the transmitters and repeaters that are part of
the security system on a regular basis.

Annunciator - Outside

Push Button

Status LEDs

Paper Template (Under Cover)

Sounder

Zone Identification

Alarm LEDs

Cover

Plastic Rivet

Annunciator - Inside

Sounder

Receiver

Status LEDs

Relay

Acknowledge /
Reset

Control Board

Battery and
Bracket

Zone
Outputs

Alarm
LEDs

12 VDC
Power
Terminal

Transformer
Terminal

Battery
Terminal

1. Cover and Zone Identification

1.1. Remove the clear plastic cover with graphic by grabbing the edge with your fingers and gently lifting up. The rivet will pop out of the hole.

1.2. 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.

1.3. You may use the Zone Identification Template provided and type or write in the zone descriptions or download a Word Template from our website at http://www.flairsecurity.com/downloads. Search for 580 Annunciators and you will find the template.

1.4. Type in the Annunciator name and the zone identifications. Print and trim the paper along the border lines. Punch holes at the corner circles.

1.5. Place the paper on the face of the Annunciator and replace the cover. Press the rivets back into the holes in the front of the Annunciator.

2. Removing Front Lid and Mounting the Annunciator

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

2.2. There are four mounting holes in the back of the panel. Place the back panel on the wall where the annunciator is to be mounted and mark the location of the two top holes for the screws.

2.3. Install two #8 screws with heads protruding just enough to place the back panel over heads and slide down locking the Annunciator in place.

2.4. Two additional screws may be used at the bottom of the back panel for a more secure installation.

3. Power and Battery Backup

3.1. The 580 Annunciator can be provided with Built-In Power Supply with Plug In Transformer or Built-In Power Supply, Plug-In Transformer and approximate 5 Ah Battery Backup.

3.1.1. Built-In Power Supply with Plug In Transformer – Cut enough 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.

3.1.2. Built-In Power Supply, Transformer and approximate 5 Ah Battery Backup – Connect plug-in transformer and backup battery to terminals. Use minimum #22 AWG wire. Connect transformer to power supply "AC", 16 – 18 VAC. Backup battery may be removed by unscrewing bracket wing nut and removing battery bracket.

Control Board

LCD Screen

Tactile Buttons:
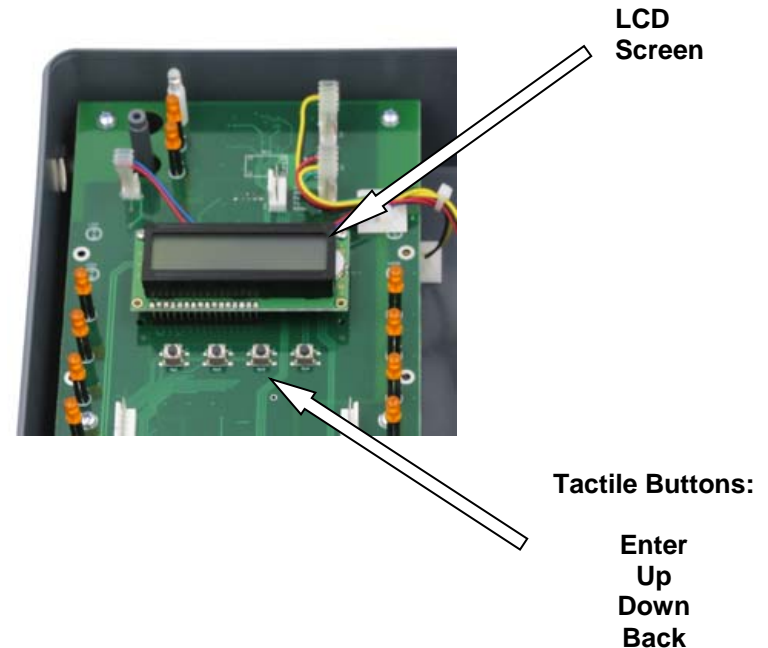
Enter
Up
Down
Back

4. Password and Changing Password

4.1. Press "Enter" to enter programming mode.

4.2. Enter the password as prompted. Default password is 12345. Use "Up" or "Down" to change digit. Press "Enter" to go forward to next digit. Press "Back" to go to previous digit. If you enter incorrect password then the screen will go blank.

4.3. Press "Enter".

4.4. Press "Up" or "Down" multiple times to scroll thru the main menu until the option of "CHANGE PASSWORD" is viewed.

4.5. Press "Enter".

4.6. Enter new password as prompted. Use "Up" or "Down" to change digit. Press "Enter" to go forward to next digit. Press "Back" to go to previous digit.

4.7. Press "Enter".

4.8. When the password has been successfully changed the display will show "CHANGED PASSWORD".

4.9. Press "Enter"

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

5. Enrolling Transmitters

5.1. A single wireless transmitter shall be assigned for each zone. The process of enrolling or deleting a transmitter is done through the Flair Control Board. Use Table at end of this manual to plan system and match transmitters to zones. Label transmitters with marker or tape with zone number.

5.2. Press "Enter" to enter programming mode.

5.3. Enter the Password as prompted. Use "Up" or "Down" to change digit. Press "Enter" to go forward to next digit. Press "Back" to go to previous digit. If you enter incorrect password then the screen will go blank.

5.4. Press "Up" or "Down" multiple times to scroll thru the main menu until the option of "ENROLL TX" is viewed.

5.5. Press "Enter".

5.6. You will be prompted to "RESET DEVICE". The cover of the transmitter must be removed in order to access the reset switch. Pressing the reset on the transmitter causes it to transmit a signal to the EN4200 receiver that will forward the message to the Control Board. The Control Board will assign this transmitter to the zone number selected. Be sure to put the transmitter cover back in place.

5.7. Enter the zone number that you wish to assign the transmitter from 1 to 24. Use "Up" or "Down" to change transmitter number. Note: The Flair Control Board has 32 outputs. Do not assign transmitters to zones 25 – 32. These are not wired to any LEDs on this model.

5.8. Press "Enter".

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

5.10. Press "Enter".

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

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

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

6. Deleting Transmitters

6.1. Press "Enter" to enter programming mode.

6.2. Enter the Password as prompted. Use "Up" or "Down" to change digit. Press "Enter" to go forward to next digit. Press "Back" to go to previous digit. If you enter incorrect password then the screen will go blank.

6.3. Press "Up" or "Down" multiple times to scroll thru the main menu until the option of "DELETE TX" is viewed.

6.4. Press "Enter".

6.5. Enter the zone/transmitter number that you wish to delete from 1 - 24. Use the "UP" and "Down" to change the zone number.

6.6. When the correct number is displayed, press "Enter".

6.7. When the zone/transmitter has been successfully deleted the display will show "REG ZONE: ## DELETED".

6.8. Press "Enter"

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

7. Deleting All Transmitters

7.1. Press "Enter" to enter programming mode.

7.2. Enter the Password as prompted. Use "Up" or "Down" to change digit. Press "Enter" to go forward to next digit. Press

"Back" to go to previous digit. If you enter incorrect password the screen will go blank.

7.3. Press "Up" or "Down" multiple times to scroll thru the main menu until the option of "DELETE ALL?" is viewed.

7.4. Press "Enter".

7.5. The display will show "ERASE? [Y].

7.6. Press "Up" or "Down" to enter "Y" or "N".

7.7. Press "Enter".

7.8. When all of the zones/transmitters have been successfully deleted the display will show "DELETED ALL".

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

8. Enrolling and Deleting <u>Reset</u> Transmitters

Note: Do <u>not</u> enroll or delete any reset transmitters. Use of reset transmitters is for security systems with multiple 580 annunciators. Enrolling reset transmitters will be done by Flair.

9. Enrolling Repeaters (We do <u>not</u> recommend enrolling Repeaters)

Note: It is not necessary to enroll repeaters in order for them to work with the Flair 580 Annunciator. The repeater will pass on messages from the transmitters and Annunciator will receive messages per normal operation even if repeater is not enrolled. Repeaters should be enrolled if the Annunciator is to monitor them as well as transmitters. Caution: Repeater low battery, loss of communication or tamper will cause the Annunciator trouble LED and sounder to turn on.

9.1. Press "Enter" to enter programming mode.

9.2. Enter the Password as prompted. Use "Up" or "Down" to change digit. Press "Enter" to go forward to next digit. Press "Back" to go to previous digit. If you enter incorrect password then the screen will go blank.

9.3. Press "Up" or "Down" multiple times to scroll thru the main menu until the option of "ENROLL REPEATERS" is viewed.

9.4. Press "Enter".

9.5. Enter the repeater number that you wish to assign the repeater. Use "Up" or "Down" to change repeater number.

9.6. You will be prompted to "RESET REPEATER". The cover of the repeater must be removed in order to access the reset switch. Pressing the reset on the repeater causes it to transmit a signal to the EN4200 receiver that will forward the message to the Control Board. The Control Board will assign this repeater to the zone number selected. Be sure to put the repeater cover back in place.

9.7. Press "Enter".

9.8. When the repeater has been successfully enrolled the display will show "REG REPEATER: ##".

9.9. Press "Enter".

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

10. Deleting Repeaters

10.1. Press "Enter" to enter programming mode.

10.2. Enter the Password as prompted. Use "Up" or "Down" to change digit. Press "Enter" to go forward to next digit. Press "Back" to go to previous digit. If you enter incorrect password then the screen will go blank.

10.3. Press "Up" or "Down" multiple times to scroll thru the main menu until the option of "DELETE REPEATER" is viewed.

10.4. Press "Enter".

10.5. Enter the repeater number that you wish to delete. Use the "UP" and "Down" to change the repeater number.

10.6. When the correct number is displayed, press "Enter".

10.7. When the repeater has been successfully deleted the display will show "REG REPEATER: ## DELETE".

10.8. Press "Enter".

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

11. General Operation of the LEDs and Audible Sounders

11.1. The Control Board will control the operation of the individual zone LEDs, status LEDs and Audible Sounder. It will use these LEDs and audible sounder to communicate the various messages or states of the wireless transmitters and overall system.

11.2. Transmitter, Receiver and System States:

11.2.1. Wireless Transmitter States:
1. Secure
2. Alarm
3. Tamper
4. Low Battery
5. Reset

11.2.2. Wireless Receiver (EN4200) States:
1. Receiver is jammed – interference on all channels
2. Reset
3. Transmitter Link failure

11.2.3. Common Push Button:
1. Momentary: Acknowledge Alarm
2. Held 1 Second: Reset Alarm
3. Held 5 Seconds: System Test

11.2.4. Individual Zone LED States:
1. Off
2. On Red Steady
3. Flashing Red

11.2.5. Relay Output States:
1. Off
2. On

11.2.6. External Audible Sounder States:
1. Off
2. Chirping 10mS On, 1 Minute Off
3. On Steady

11.2.7. Internal Power Status Audible States:
1. Off
2. On

11.2.8. Power LED
1. On Green
2. On Red
3. Flashing Red
4. Flashing Green and Yellow

11.2.9. Low Battery LED
1. Off
2. On Red

11.2.10. Trouble LED
1. Off
2. On Red

12. System Detailed Operation

12.1. General Wireless Transmitter

12.1.1. 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.

12.1.2. When the transmitter is "ON" and functioning properly, it will send a "Secure" message.

12.1.3. If there is a fault triggered by a sensor connected to the transmitter or transmitter sensor it will send an "Alarm" message.

12.1.4. The tamper button on the transmitter provides monitoring of the case of the transmitter. If the lid of the transmitter is removed it will send a "Trouble" message.

12.1.5. If the battery voltage of the transmitter goes below a predetermined level it will send a "Low Battery" message.

12.1.6. When a transmitter is out of range during a regular paging interval the Receiver will send a "Trouble" message.

12.2. Wireless Receiver (EN4200)

12.2.1. The EN4200 Wireless Receiver acts as a gateway to transmit any wireless data received by the various transmitters to the Control Board. In addition it will also transmit its own status periodically to the Control Board.

12.2.2. If the EN4200 receives interference on all channels it will transmit a "Receiver is Jammed" message.

12.3. Acknowledge/Reset/System Test Push Button

The Annunciator has a single multifunction push button on the upper right side so the user may acknowledge, reset or perform a system test on the Annunciator and the Control Board.

12.4. Acknowledge:

12.4.1. If pressed while any "Alarm" status messages are sent will cause the audible sounder to turn off and the zone Alarm Red LED to change from flashing to steady

12.5. Reset:

12.5.1. If pressed and held for a second after an "Alarm" status message has been acknowledged and a "Secure" status message has been received will cause.

1. All restored Alarm LEDs to turn off

2. Relay output to turn off

3. 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 again.

12.6. System Test:

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

1. The Audible sounder to chirp 2 times

2. All of the LEDs to flash for 3 seconds

3. The Relay to turn on for 3 seconds

4. The Audible sounder to chirp 3 times

12.7. Alarm (Red LED)

12.7.1. OFF: When the programmed transmitter sends a "Restore Alarm" message and the Reset Switch has been activated.

12.7.2. FLASH: When the programmed transmitter sends a "Low Battery" message.

12.7.3. FLASH: When the programmed transmitter sends an "Alarm" or "Tamper" message.

12.7.4. FLASH: When the receiver sends a "Missing" transmitter message

12.7.5. ON: When the programmed transmitter sends an "Alarm" or "Tamper" message and the acknowledge button has been pressed.

12.8. SPDT Relay Output

12.8.1. OFF: During normal operations with no "Alarm" messages sent.

12.8.2. ON: When any "Alarm" message is sent from one of the transmitters. The Relay Output will remain on until all alarm messages are cleared

12.9. External Audible Sounder

12.9.1. Turn baffle on outside of sounder to adjust loudness.

12.9.2. OFF: During normal operation with no "Alarm" or "Low Battery" or "Trouble" messages have been sent.

12.9.3. ON: The audible sounder will turn on steady when any "Alarm" or "Tamper" message is sent from one of the transmitters or repeaters. The audible sounder will remain on until the acknowledge/reset push button is pressed acknowledging the "Alarm" and turning the audible sounder off.

12.9.4. CHIRP: The audible sounder will begin to chirp 10mS on, 1M off, when any "Low Battery" message is sent from one of the transmitters or repeaters. Will turn off when communication is reestablished.

12.9.5. CHIRP: The audible sounder will begin to chirp 50mS on, 2M off, when any "Receiver is Jammed" or transmitter or enrolled repeater "Missing" message is sent. Will turn off when communication is reestablished.

12.10. Internal Power Supply Status Audible

12.10.1. OFF: During normal operation

12.10.2. 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 pushed.

12.11. Power LED

12.11.1. ON Green: During normal AC operation

12.11.2. ON Red: During DC operation

12.11.3. OFF: When there is no power

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

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

12.12. Common Transmitter Low Battery LED

12.12.1. OFF: During normal transmitter operation

12.12.2. ON: When the EN4200 Receiver receives a "Low Battery" message from any of the transmitters or enrolled repeaters. Will turn to off when batteries are replaced.

12.13. Common Trouble LED

12.13.1. OFF: During normal operation

12.13.2. ON: When the EN4200 Receiver receives a "Receiver is Jammed" message. Will turn to off when communication is reestablished.

12.13.3. ON: When any "Receiver is Jammed" or transmitter or enrolled repeater "Missing" message is sent. Will turn off when communication is reestablished.

13. Trouble Shooting

13.1. If Alarm LED does not clear after pressing reset button then go to transmitter and make sure that it is secure. Make sure there is nothing that can cause the sensor to keep alarming or that the transmitter has not been tampered.

13.2. If Low Battery LED is on then the Alarm LED for problem transmitter will flash. If it has been more than a year since last battery replacement it would be best to change all transmitter batteries.

13.3. If Low Battery LED is on but no Alarm LED is flashing then an enrolled repeater has a problem. Check repeaters for low battery indicator. If AC power is on then replace repeater battery. If AC power is off then check transformer and 110 VAC supply.

13.4. If the Sounder turns on but there is no alarm LED then an enrolled repeater has been tampered. Turn off sounder by pressing acknowledge button and check all repeaters to make sure they are secure and working properly.

13.5. If Alarm LED will not clear and transmitter is secure then turn off power to annunciator, wait one minute and turn power back on. If Alarm LED remains on then call installer to investigate

13.6. If Trouble LED does not clear turn off power to annunciator, wait one minute and turn power back on. If Trouble LED remains on then call installer to investigate.

14. Transmitter / Zone and Repeater Table

Transmitter Number	Zone Identification
1	
2	
3	
4	
5	
6	
7	
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10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
Repeater Number	**Location**
1	
2	
3	

15. Warranty

Limited Warranty

Flair Electronics warrants the original purchaser that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, Flair Electronics shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labor and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original purchaser must promptly notify Flair Electronics in writing that there is a defect in materials or workmanship, such written notice to be received in all events prior to expiration of the warranty period. There is absolutely no warranty on software and all software products are sold as a user license under the terms of the software license agreement included with the product. The Customer assumes all responsibility for the proper selection, installation, operation and maintenance of any product purchased from Flair Electronics.

Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to Flair Electronics must first obtain an authorization number. Flair Electronics will not accept any shipment whatsoever for which prior authorization has not been obtained.

Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- Damage incurred in shipping or handling;
- Damage caused by disaster such as fire, flood, wind earthquake or lightning;
- Damage sue to causes beyond the control of Flair Electronics such as excessive voltage, mechanical shock or water damage;
- Damage caused by unauthorized attachment, alterations, modifications or foreign objects;
- Damage caused by peripherals (unless such peripherals were supplied by Flair Electronics;
- Defects caused by failure to provide a suitable installation environment for the products;
- Damage caused by use of the products for purposes other than those for which it was designed;
- Damage from improper maintenance;
- Damage arising out of any other abuse, mishandling or improper application of the products.

Items Not Covered by Warranty

In addition to the items which void the Warranty, the following items shall not be covered by Warranty: (i) freight cost to the repair center; (ii) products which are not identified with Flair Electronics product label and serial number; (iii) products disassembled or repaired in such a manner as to adversely affect the performance or prevent adequate inspection or testing to verify any warranty claim. Products not covered by this warranty, or otherwise

out of warranty due to age, misuse, or damage shall be evaluated, and a repair estimate shall be provided. No repair work will be performed until a valid purchase order is received from the Customer and a Return Merchandise Authorization Number (RMA) is issued by Flair Electronics customer Service.

Flair Electronics' liability for failure to repair the product under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty. Under no circumstances shall Flair Electronics be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, downtime, purchaser's time, the claims of third parties, including customers, and injury to property. The laws of some jurisdictions limit or do not allow the disclaimer of consequential damages. If the laws of such a jurisdiction apply to any claim by or against Flair Electronics, the limitations and disclaimers contained here shall be to the greatest extent permitted by law. Some states do not allow the exclusion or limitation of incidental or consequential damages, so that the above may not apply to you.

Disclaimer of Warranties

This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose) and of all other obligations or liabilities on the part of Flair Electronics. Flair Electronics neither assumes responsibility for nor authorizes any other person purporting to act on its behalf to modify or change this warranty, nor to assume for it any other warranty or liability concerning this product.

Warning: Flair Electronics recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tempering or electrical disruption, it is possible for this product to fail to perform as expected.

Out of Warranty Repairs

Flair Electronics will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to Flair Electronics must first obtain an authorization number. Flair Electronics will not accept any shipment whatsoever for which prior authorization has not been obtained.

Products which Flair Electronics determines to be repairable will be repaired and returned. A set fee which Flair Electronics has predetermined ad which may be revised from time to time, will be charged for each unit repaired.

Products which Flair Electronics determines not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be charged for each replacement unit.

16. E - FCC Compliance Statement

***CAUTION:** Changes or modifications not expressly approved by Flair Electronics could void your authority to use this equipment.*

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part15 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 instructions, 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 tuning 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 the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/television technician for help

The user may find the following booklet prepared by the FCC useful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402, Stock # 004-000-00345-4.

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