iSecure
Systems by Napco

Professional Cellular Alarm System
Installation & Programming Instructions

DOCUMENT REVISION HISTORY

Date	Revision	Description of Changes
Dec 2019	WI2240LF	•Original release.
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For systems that include CO detectors, the system must be monitored by a central station.

Compliance Statement

Installation in accordance with this manual, applicable codes, and the instructions of the authority having jurisdiction is mandatory. Napco Security Technologies, Inc., reserves the right to make product improvements and changes to product specifications at any time. While every precaution was taken during the preparation of this document to ensure its accuracy, Napco assumes no responsibility for errors or omissions.

Fire Alarm System Limitations

Automatic fire alarm systems can not guarantee against property damage, loss of property, or loss of life. An automatic fire alarm system's ability to provide early warning of a developing fire may be limited for a variety of reasons, but mainly due to improper installation or maintenance. The best way to minimize system failures is to perform regularly scheduled preventive maintenance in accordance with national and local fire codes. All system components and wiring should be tested and maintained by trained fire alarm system professionals. *All wireless devices, including Z-Wave devices, must be signal tested with all enclosure covers fully closed, including the Go-Anywhere Hub.*

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Caution: Verify all components including those adhered to walls with double-sided tape are secure and remain firmly adhered. Regularly inspect components that could cause injury; in addition, swallowing small components, such as magnets or batteries, could injure small children; keep all components away from children.

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333 Bayview Avenue, Amityville, New York 11701
Publicly traded on NASDAQ Symbol: NSSC
Visit our website at www.napcosecurity.com
For Sales and Repairs: (800) 645-9445
For Technical Service: (800) 645-9440 or visit us at
tech.napcosecurity.com
(**Note:** Technical Service is for security professionals only)
Fax: 631-789-9292

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Overview

INTRODUCTION

NAPCO's **iSecure Security System** is an easy to install, state-of-the-art microcomputer-based burglary alarm system with integral cellular communicator. Installation allows for wall mounting or placement on a table top. **iSecure** supports up to 80 wireless protection zones that may be divided into 1 or 2 Areas, each containing their own protection zones. The basic system can be easily expanded, with all Kits compatible with the following standard devices:

Go-Anywhere Hub™

IBR-TOUCH-WL *Smart 7" Wireless IoT Touchscreen Keypad*
ISEC-WL-TOUCH* *Wireless 4.3" Full Color Security Touchscreen Keypad*
ISEC-WL-KEYPAD *Wireless Battery-Powered Standard Keypad*
ISEC-WL-SIREN* *Wireless Siren*
ISEC-WL-MODULE* *Wireless 8-Zone Takeover Module*
ISEC-DW-XMITTER *Low Profile Window/Door Transmit-ter*
ISEC-KEYFOB *4-Button Pendant/Keychain Transmitter*
ISEC-SMOKE *Supervised Wireless Digital Smoke Sensor*
ISEC-MOTION *Passive Infrared Motion Sensor*
ISEC-GLASSBREAK *Wireless Glass-Break Sensor*
ISEC-CARBON MON *Supervised Wireless Carbon Monoxide Sensor*
ISEC-PANIC *Single Button Waterproof Panic*
ISEC-HEAT *Wireless Heat Detector with Rate of Rise*
ISEC-ZWAVE* *Z-Wave Module*
ISEC-WIFI* *Internet Module*
ISEC-2WF-MOD *2-Wire Fire Sensor Module*
SLE-EXTANT-KIT *Adapter Cable for ANTEXT Kits:*
　SLE-ANTEXT30 *30' Remote Antenna Kit*
　SLE-ANTEXT50 *50' Remote Antenna Kit*
　SLE-ANTEXT75 *75' Remote Antenna Kit*
　SLE-ANTEXT100 *100' Remote Antenna Kit*

See page 73 for ordering and additional information. Refer to our website for the latest revisions of the documentation

FEATURES

- iPhone and Android phone apps allow for local and remote arm / disarm, system status and Z-Wave control
- Integral 319MHz wireless receiver allows for compatibility with all NAPCO 319MHz wireless transmitters
- Integral 4-wire bus terminals that support the **GEMWV-RECV** (additional peripherals require power supply)
- Integral Ethernet 10/100 network connection for backup central station communication, notifications and **IBR-TOUCH-WL** operation
- Integral siren with Burg, Fire and CO Alarm cadences capable of 85dBA at 10 feet

- Integral voice prompts with 4 volume levels
- All Kits support up to six (6) **ISEC-WL-KEYPAD**s and/or **ISEC-WL-TOUCH**s, combined. When the **Go-Anywhere Hub** is connected to a network with a Wi-Fi access point, up to four (4) **IBR-TOUCH-WL** tablet keypads can be used.
- Powered by 16.5VAC transformer (included). Provision for rechargeable 4AH or 5AH 12V backup battery (not supplied) that automatically provides power during AC power outages
- System fully monitors AC power and charges the backup battery
- LTE cellular radio module for wireless central station communication, notifications, remote programming and firmware downloads
- Integral supervised bell output
- Integral PGM output initiated by a keyfob button press (toggle on/off or momentary on for 5 seconds)
- Cloud-based programming in the **iSecure Cloud Web Portal** (www.iSecureByNapco.com)
- 900MHz Wireless Transceiver Module for adding other wireless system peripherals, including the **ISEC-WL-KEYPAD**, the **ISEC-WL-TOUCH** *Touchscreen*, the **ISEC-WL-MODULE** *Takeover Module* and the **ISEC-WL-SIREN**.
- Optional **ISEC-ZWAVE** *Z-Wave Module* for programming/control of Z-Wave home automation controls such as Z-Wave-enabled lights, outlets, thermostats, garage door operators and door locks
- Optional **ISEC-WIFI** *Internet Module* for backup central station communication and notifications (supplied in KIT 3; see page 73 for kit ordering information).
- Optional **SLE-ANTEXT30** / **50** / **75** / **100** *Extended Range Remote Indoor/Outdoor Antenna* to increase LTE cellular transmission signal strength (see WI2230 for instructions)
- Optional **ISEC-2WF-MOD** *2-Wire Fire Sensor Module* that supports 2 Fire zones (connect to **Fire Power [+]**, **Zone 7 [–]** and **Zone 8 [–]** terminals)

See page 73 for ordering and additional information.

Note: Not all pages in this manual apply to all systems. Use the instructions for the peripherals and devices included with the iSecure kit or for any additional devices purchased, as required. ***All wireless devices, including Z-Wave devices, must be signal tested with all enclosure covers fully closed, including the Go-Anywhere Hub***.

Note: iSecure, Gemini Wave (GEMWV) and Gemini (GEM) transmitters are compatible with the iSecure system; however, iSecure and Gemini Wave (GEMWV) transmitters are not compatible with Gemini GEM-Receivers.

To simplify the installation process, the **Go-Anywhere Hub** can be programmed either through the programming screens in the iSecure phone app or by accessing the same programming screens in the **iSecure Cloud Web Portal** (www.iSecureByNapco.com). In addition, a log containing up to 800 events monitors Go-Anywhere Hub activity referenced to a precision real-time clock. This detailed event history may be displayed in the website page or in the app, as needed.

*Coming soon

New User Pre-Installation and Configuration Steps

Open the box and locate **OI404LF**, a card that specifies the system **Radio ID** number, **Network MAC** address and **Master Code**. Keep this card handy during the installation process, *but always store in a secure location*.

Account and Central Station Activation

1. Visit (www.NapcoComNet.com)
2. Enter your **iSecure ID #** and the select your service plan
3. Access the iSecure Cloud Web Portal at www.iSecureByNapco.com. Click **Dealer Login**. Refer to the OI404LF card and enter your **Dealer User ID**, **Password** and **Radio ID** ("**iSecure LTE ID#**"). Click **Submit**.
4. Click **General Settings** and in the **Master Security Code** field, enter the **Master Code** (also refer to the OI404LF card).
   - (Optional) Enter a **Download Security Code** and a **Dealer Keypad Programming Code** in the fields provided.
5. Click **Save**. Any changes to the Master Security Code require that you exit and re-enter the iSecure Cloud Web Portal. Therefore, quit your browser and log back in.
6. Click **Central Station Reporting** and enter your central station account and telephone number. Click **Save**.
7. Download the Kit configuration into your Go-Anywhere Hub: Click **Upload/Download** > **Full Download** and click **Yes** to confirm. While waiting for the download to complete, the yellow "IP Network Wi-Fi" LED will be on steady during the download process and the Hub will beep when the download is complete.

After you have downloaded the Kit configuration into your Go-Anywhere Hub, you can add and easily configure any additional devices as detailed further in this manual (see the Table of Contents for the device you wish to add).

Hardware Installation Instructions

1. Open box and remove all components from the Kit and place on a clean table top. Be sure that **OI404LF** (the card that specifies the system **Radio ID**, **Master Code**, etc.), is in a secure location.
2. Power all battery-powered devices, either by inserting batteries or by removing battery ribbons/fishpaper. With the Kit 1 keypad (**ISEC-WL-KEYPAD**), insert battery (provided) into 1 of the 2 battery holders. Place magnets next to **ISEC-DW-XMITTERs** to make them appear to the system as "closed" (see page 18 for where to locate the magnet).
3. Separate the Go-Anywhere Hub housing: With a flat head screwdriver, push in the two tabs at the bottom to unhook, then carefully separate the two parts of the housing.
4. Place a 12V, 4AH (or 5AH) battery (not supplied) into its bracket, terminals facing the rear of the unit. Secure using the Velcro strip. Connect flying leads to battery terminals "red to red" and "black to black".
5. Re-join the front and rear Go-Anywhere Hub housing, thus powering the unit. Verify that the bottom right green LED on the Hub flashes for about 10 seconds.
6. Wire the supplied 16VAC transformer wires: Remove the wiring cover on the back of the Hub and connect each wire to each of the bottom two screw terminals. **Note:** The transformer is a required part of a working system.
7. Wait at least 30 seconds until the "Cellular Signal Strength" green LED (right side, second from top) flashes a signal strength of 3 or higher.
8. Confirm keypad operation by arming and disarming the system (use the default User Code **1 2 3**).
9. With the system disarmed, test each transmitter (one at a time) by removing and replacing its magnet.
10. Test the PIR by facing it towards a wall, or upside down so that no motion is detected for at least 5 minutes. Ensure the keypad displays a faulted zone when the PIR is triggered by pointing the PIR towards the tester.
11. If additional wireless devices were added to the system (programmed using the iSecure Cloud Web Portal and downloaded to the Hub) ensure the devices are similarly tested.
12. After confirming operation of all parts of the system, physically install each device in their desired location as detailed in this manual (see the Table of Contents for each device).
13. Determine the installation location noise level: After installing the Go-Anywhere Hub in its final location, remove power (unplug AC and open the Hub enclosure to momentarily disconnect the battery), wait 10 seconds, then snap the Hub enclosure back together and plug the Hub transformer into a wall outlet. This momentary removal of power will allow the Go-Anywhere Hub to determine the relative wireless noise level of each device at each of their selected installation locations. **IMPORTANT:** All wireless devices, including Z-Wave devices, must be signal tested with all enclosure covers fully closed, including the Go-Anywhere Hub.

Now install and launch the iBridge smartphone app to confirm the signal strength of each transmitter:

iOS / Android Phone App Installation

- Purchase and install the free smartphone app (search for "**iBridge**" in your online app store)
- Launch the app and tap **System** (the "gears" icon)
- Tap **Configure Remote Logins** > **New User**
- In the **Username** field, enter the **Radio ID** ("**iSecure LTE ID#**") located on the card (OI404LF)
- In the **Password** field, enter the default Password **1 2 3 4**
- Type a **Display Name**
- Tap **Log In** (when connected, the bottom right will indicate "**Connected...**"
- Tap **Security**
- Enter the **Master Code** located on the card (OI404LF), then tap **MENU**, **BYPASS**, (tap **Next/Yes** to DISPLAY RF XMITTER STAT Y/N).
- Tap **Next/Yes** to scroll forward through each zone (or tap **Prior/No** to scroll through the previous zones). Signal strength should be at least 3; we recommend 4 or greater)

Dealer Account Activation & Programming

Dealer Account Activation

The iSecure system requires activation before it can be used. Before powering the Go-Anywhere Smart Hub, you must:

1. Be an active NapcoComNet dealer and have an account. To activate, go to www.NapcoComNet.com and log in to your NapcoComNet account in the "**Existing Customer**" section.
   If you are not yet registered as a NapcoComNet dealer, please complete the "**New Customer**" section. Dealer accounts are approved Monday-Friday 8:30 AM - 4:30 PM (please allow up to 1 business day for approval).

2. Click the **Add Device** tab at the top of the screen, click **Service Plans** and then enter the seven-digit **Radio ID** number on the card provided with your iSecure system to register and activate the Radio ID number. Enter the **Radio ID** without dashes or spaces (see sample shown at right).
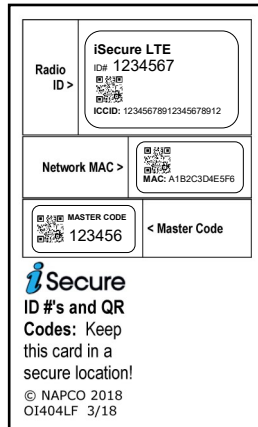
3. Select: <u>iSecure Service Plans</u>

4. Click **Go** to view the applicable service plans and add them to your cart. If any optional services are available, they will appear on this screen. You will be asked to enter basic subscriber information, review your order and then check out by clicking **Process Order**.

   The iSecure product will be ready for use within 15 minutes of checkout.

   With iSecure, a *new* subscriber account will automatically be created. A **Dealer User ID** and temporary **Password** will be emailed to you (the dealer) upon activation. This temporary **Password** *must* be changed by the customer (owner of the installation site premises) after the installation is complete. **Note:** For existing subscribers, the system will NOT generate an email with a **Dealer User ID / Password**.

Dealer Programming

When you purchase an iSecure kit (see page 73 for ordering information), all devices included in the kit are already programmed into the **iSecure Cloud Web Portal** (www.iSecureByNapco.com). Simply add extra devices or make changes to the existing devices as needed. To log into the **iSecure Cloud Web Portal**, proceed as follows:

1. Open your browser and go to the **iSecure Cloud Web Portal** at www.iSecureByNapco.com. An initial login screen appears:

2. Click **Dealer Login** and the iSecure login screen appears:

3. In the email sent to you (see the section "**Dealer Account Activation**", above), enter the **Dealer User ID** and temporary **Password** in the fields provided.

   In the **Radio Serial Number** field, enter the **Radio ID** number printed on the iSecure card that came with your iSecure system (sample card shown above).
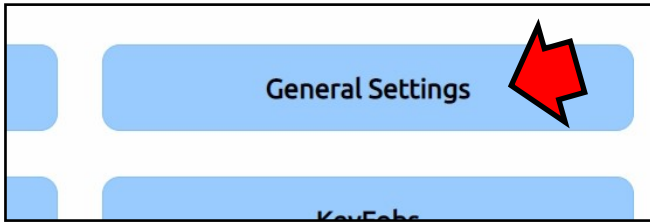
   Click **Submit** and the main programming "**SYSTEM SETTINGS**" screen appears:

For new accounts accessed for the first time, a message will appear requesting that you first enter the six-digit **Master Code** located on the card provided with your iSecure system (see sample shown previously).

4. In the main programming "**SYSTEM SETTINGS**" screen, select **General Settings**.

Enter the **Master Code** printed on the iSecure card in the **Master Security Code** field, then click **Save**.

Any changes to the **Master Security Code** requires that you exit and re-enter the **iSecure Cloud Web Portal**.

5. Click **Log Out** to exit, then log back in to the iSecure Cloud Web Portal (www.iSecureByNapco.com) as described in step 1 and step 2. Exiting and re-entering ensures that the **iSecure Cloud Web Portal** and the **Master Security Code** are synchronized and the system is fully protected by your secure account password.

When changes are made to the system, the **Upload/Download/Save/Restore** button on the main programming screen will appear yellow.
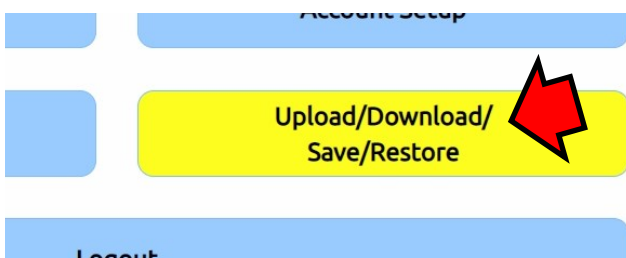
6. Click this yellow button, and click **Download All Changes**. (or click **Full Download** for new accounts accessed for the first time).
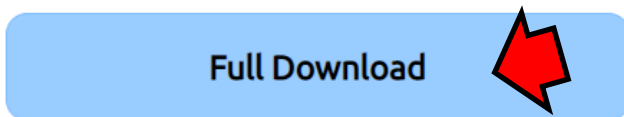
In the confirmation popup, click **Yes, download!** to send all changes to the **Go-Anywhere Smart Hub**.

Now that the system is synchronized with the **Master Security Code**, proceed to the next section to set up the central station communications.

Central Station CS Reporting Screen

At the top of this screen, three "tabs" are available (arrows): **Signal Log**, **Checkins** and **Edit History** logs for status and reporting information

Central Station Reporting Screen

Select **Central Station Reporting** and the above screen opens. In this screen you can change the reporting data, central station account numbers, supervision timeout durations and other selections appropriate for the installation and the service plan purchased. Always check that the radio communicator is active by ensuring the **Radio Status** indicates "**Device Running Properly…**", verify the correct **Radio #** appears at the very top of the screen, and to the right of the **Radio #**, enable the **Central Station Reporting** radio button.

Note: To ensure that the iSecure Cloud Web Portal has the latest configuration data stored in the Hub, click the **Upload Radio Status** button. Use this button the first time a radio communicator is to be managed by the Cloud Web Portal.

At any time you can change the reporting central station receiver telephone numbers, account numbers, IP reporting information and other settings by simply entering alternate data and clicking **Save**. Enable the appropriate radio button if backup or duplicate reports are to be sent, i.e. "**First Primary**", "**First Backup**", "**Duplicate Primary**", "**Duplicate Backup**". Other selections include:

CS TELEPHONE
Enter all digits of the central station receiver telephone number including area code.

CS ACCT
Enter all digits of the central station account number. **Note:** Both a **CS TELEPHONE #** and **CS ACCT #** must be entered in the fields, otherwise the **Save** button remains disabled.

IP-Based Reporting (to an IP Receiver)
In the **COMMUNICATION TECHNOLOGY** pull-down, there are three selections:
- **Cell Radio Only** (default)

- **IP with Cell Radio Backup**
- **IP Only**

If you wish to use IP-based reporting (radio or Dual Path) instead of telephone-based reporting, contact your central station and ask for the specific IP information (for example, Sur-Gard System II, Sur-Gard System V central station receivers) to enter for their receiver, including the **IP ADDRESS**, **PORT** number, encryption **KEY** characters, central station **ACCT #** (also known as *Account Code Field*, click the "**?**" icon and contact your central station for specific details regarding how they programmed their receiver to accept data) and **DNIS SETTINGS** number (if used). **Note:** For IP reporting, each digit if the **IP ADDRESS** must be 0-9 (do not use hex).

Poll Fail Timeout
The duration set determines how long the system will wait for a radio check-in packet. If not received, a Supervision signal will be sent to the specified central station. Select from the pull-down the appropriate **Poll Fail Timeout** duration available, depending on the service plan purchased.

CS Test Timer
The selections are Non, Daily or Weekly. If enabled, an automatic test report will be transmitted to the central station on the schedule selected when **First Primary** central station telephone number is configured. If **Cell Radio Only** is selected, Hub generated **Test Timers** are reportable signals and are forwarded to the central station.

Example: If a signal is sent to the central station, the supervision time counter will reset to that day. For example, if the supervision time is supposed to occur on March 25, but an alarm signal was tripped earlier on March 15, if no other signals are sent, the next time the radio will check in is in 30 days after the March 15 date.

The iSecure Cloud Web Portal also has the ability to send emails and text messages to dealers and/or customers (only available if supported by your service plan).

Enable IP Supervision
Check to enable the IP path of the integral dual path radio communicator (this selection is available depending on plan purchased).

Configuration Type
Click the **Configuration Type** pull-down to select the reporting pathway preference:
- Ethernet Preferred with Wi-Fi Backup
- Wi-Fi Preferred with Ethernet Backup
- Wi-Fi is Only IP Path
- Ethernet is Only IP Path

IP Configuration Type
- DHCP
- Static

Click the pull-down to select how the IP settings are configured. Select **DHCP** to have the IP address automatically assigned when the radio connects to the Internet, or select **Static** if you wish to manually designate a specific IP address that will remain permanently assigned to the radio.

IP Address
Subnet Mask
Default Gateway

Contact your central station for their **IP Address**, **Subnet Mask** (if used) and **Default Gateway**. The Default Gateway is the router used to forward all network data addressed outside the local network or local subnet, usually to the cable or DSL modem connected to the Internet service provider (ISP), and vice versa.

WI-FI CONFIGURATION
Wi-Fi Networks
Initially this pull-down field is blank; therefore click the **Search Wi-Fi Networks** button to look for the various Wi-Fi networks available in your area. **Note:** The search process may take up to 3 minutes (a warning popup will appear to confirm this duration). When the search process ends, select the Wi-Fi network you wish to use from the populated pull-down list. The selected Wi-Fi network name will appear in the **Selected Network** field (described below).

Security Type
From the pull-down, select the Wi-Fi security protocol to provide authentication and encryption between the Hub's internal radio communicator and the customer's Wi-Fi router; select either **Unknown**, **Disable**, **WEP** or **WPA2-Personal** (supported devices only).

Password
Type the password of the selected Wi-Fi network.

Selected Network
When the Wi-Fi network name is selected using the **Wi-Fi Networks** pull-down (described above), the selected Wi-Fi network name will appear in this field.

Wi-Fi Module Version
Displays the **ISEC-WIFI** module firmware version (installed inside the Hub) as retrieved from the firmware installed in the PC board circuitry.

Upload Radio Status (button)
Click to ensure that the iSecure Cloud Web Portal has the latest configuration data stored in the Hub. This is rarely needed but should be used (button clicked) the first time a radio communicator is to be managed by the iSecure Cloud Web Portal. **Note:** Radio will reboot after the successful download of new IP configurations. **IMPORTANT:** Some police and/or fire departments require alarm permits (contact each department (do not dial 911) for confirmation).

Signal Log
Edit History
Checkins
At the top of the **CS Reporting** screen, click one of the three "tabs": **Signal Log**, **Checkins** (Check-in Log) or **Edit History** logs for status and reporting information, as follows:

Signal Log
The Signal log displays the date and time reportable signals, troubles and alarms were received at the iSecure Cloud Web Portal. It also displays the event data received if the signal was processed without error (marked "OK"); the signal strength of the radio at the time the signal was received, the CS telephone number dialed and the number of attempts the radio made to deliver the signal. Select Press to Send Test Signal to manually initiate a test signal. For each signal the radio delivers, the system will try 8 times to reach the central station programmed. If the radio does not receive a kiss off, it will re-transmit the alarm and display a "2" in the log. After (another) 8 unsuccessful tries by the Cloud Web Portal to contact the central station, the radio will then output a "Fail to Communicate" signal.

Edit History
This screen displays any time a radio has its configuration either uploaded or downloaded.

Checkins
The Check-in log displays radio transmissions that are not routed to the central station. These signals are used by the iSecure Cloud Web Portal to monitor the radio and indicate its status. Dealers can see the last check-in time (look at the **Timestamp** column). The remaining columns are for NAPCO technical support use. Radio "Check-in's" are dead-ended at the iSecure Cloud Web Portal, i.e. they are not sent to the central station but are tracked when IP reporting is not utilized ("**Cell Radio Only**" selected). If they are not received within the supervision time window, the system sends a *Loss of Supervision* signal to the central station.

1. Install the *Go-Anywhere Hub*

Place your **Go-Anywhere Hub** in a protected *central location* inside the premises, preferably in an elevated area (not on the floor) and near a standard un-switched / uninterruptable 120VAC electrical outlet.

- Place on a shelf, desk or wall mount

- Avoid proximity to electrical junction boxes, wireless telephones, wireless routers and transmitters (including baby monitors)

- Do not place in attics, utility, AV or computer closets

- Basement installation is NOT preferred

- Locations with proper ventilation and climate control are preferred

Go-Anywhere Hub

WALL MOUNTING

1. Mark the four mounting hardware locations. Use a level to ensure horizontal mounting.

2. Using #8 screws appropriate for the mounting surface, install the top two screws into mounting surface. **Note:** When mounting to hollow drywall or similar surface, we recommend using wall anchors or similar hardware appropriate for the installation.

3. Separate the Go-Anywhere Hub housing: With a flat head screwdriver, push in the two tabs at the bottom to unhook, then carefully separate the two parts of the housing .

4. Hang the rear housing by placing the top two keyhole-shaped holes over the two screws installed in step 2. Use the pre-installed Hanger Clip (see image below) to hang the front cover.

5. Install the two bottom screws (use #8 screws appropriate for the mounting surface) and tighten the two top screws. Do not over-tighten (to prevent the housing from distorting).

6. Power up using an un-switched 120VAC outlet (power wires can be snaked through the wall). Install and connect the 4AH or 5AH battery (not supplied), observing polarity; secure battery with Velcro strap.

7. Remove the plastic protective film from the face of the Go-Anywhere Hub.

STAND-ALONE INSTALLATIONS

- If placing on a shelf or desk, install the supplied rubber feet on the bottom of the Go-Anywhere Hub

- Run the power adapter wiring to the nearest un-switched 120VAC outlet and plug in

- Install and connect the 4AH or 5AH battery (not supplied), observing polarity; secure battery with Velcro strap

- Remove the plastic protective film from the face of the Go-Anywhere Hub.

> ## Voice Prompt Volume
>
> To control the Hub *voice prompt volume*, press the following keys at any keypad in the system:
>
> - *On/Off* = **1** + **ENTER**
>
> - *Louder* = **2** + **ENTER**
>
> - *Softer* = **3** + **ENTER**
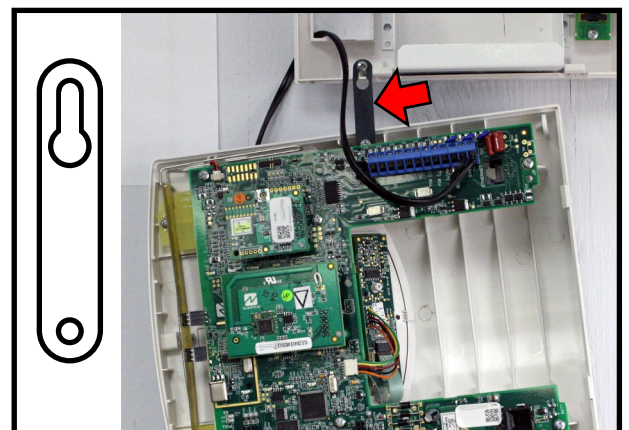
Use Hanger Clip to simplify wall mounting and wiring

All technical manuals are available in PDF format at tech.napcosecurity.com   ***Napco iSecure Security System***

Go-Anywhere Hub Rear Access Descriptions

Note: The rear terminals, headers and sockets are not accessible after wall mounting.

TERMINAL DESCRIPTIONS

Configure all inputs and outputs using the iSecure Cloud Web Portal at www.iSecureByNapco.com. Located at the bottom of the Go-Anywhere Smart Hub PC board, the 11 terminals are described as follows:

Z7 (–):   Connects to the negative terminal of the two-wire smoke sensor (zone 7). Requires **ISEC-2WF-MOD** *2-Wire Fire Sensor Module*.

FIRE PR+:   Connects to the positive terminal of the two-wire smoke sensor. Requires **ISEC-2WF-MOD** *2-Wire Fire Sensor Module*.

Z8 (–):   Connects to the negative terminal of the two-wire smoke sensor (zone 8). Requires **ISEC-2WF-MOD** *2-Wire Fire Sensor Module*.

GND: Common ground terminal.

GRN: Remote Bus connection, see wiring diagram.

YEL: Remote Bus connection, see wiring diagram.

PGM (+):   This terminal is a low current continuous +12V output. Wired with the active trigger terminal **PGM (–)** below, this PGM output can be programmed to either toggle on/off or remain momentarily energized (for about 5 seconds) upon a keyfob button press. Program in **KEYFOB SETTINGS**, **KEY FUNCTIONS** column (for **Key #3** or **Key #4**, select **AuxOutput/PGM Toggle** or **AuxOutput/PGM Momentary**). This terminal can be wired to an LED or to the red (+) of the model RB1000 Relay Board (the RB1000 is a low-current Form-C relay that provides an additional dry contact output). This RB1000 relay may be used to activate access control devices, locks, etc.

PGM (–):   The active trigger for the PGM (when triggered, changes from open collector to active). This terminal can be wired to the black (–) of the model RB1000 Relay Board (see description of terminal **PGM (+)**, above).

BELL (+):   Connect the alarm sounding devices (self-contained sirens, speakers or a mechanical bells) this terminal and **BELL (–)**. Any self-contained external siren requiring a 12V supply can be connected. When connecting a mechanical bell, it must be supervised using a 2.2k Ohm resistor. To connect 8 Ohm speakers, use a Siren Driver with the proper polarity observed. **Note:** Refer to the Standby-Battery Calculation Worksheet (page 72) for standby and alarm current specifications. **Note:** In NFPA Household Fire and carbon monoxide installations, only a single siren or bell can be used on this bell circuit.

BELL (–):   Wire this terminal to the black (–) of the model RB1000 Relay Board. See terminal **BELL (+)**, above..

16VAC: (see **16VAC**, below)

16VAC: AC In (2 non-polarized terminals). Connect to the supplied 20VA TRF12 Class 2 transformer using appropriate gauge wire. **Important:** Do NOT connect the wall adapter to a switched AC outlet.

HEADER / SOCKET DESCRIPTIONS

Also refer to the Wiring Diagram on page 79.

J1   Optional Z-WAVE Board insert
J2   Optional Wi-Fi PC Board insert
J3   Wi-Fi PC Board Insert
J4   LTE Radio PC Board insert (for pre-installed LTE radio module)
J5   LTE Radio PC Board insert (for pre-installed LTE radio module)
J7   LTE Radio PC Board insert (for pre-installed LTE radio module)
J9   900MHz Transceiver Board insert
J11   2-Wire Fire PC Board insert
J15   Voice prompt mini-sounder socket
J14   Local keypad socket (reserved for future use)
J16   Siren socket
J19   Optional 345MHz receiver socket (reserved for future use)

CONFIG
900   1   2
TIVA 3   4   **spare**
JP4   5   6

Go-Anywhere Hub
"JP4"
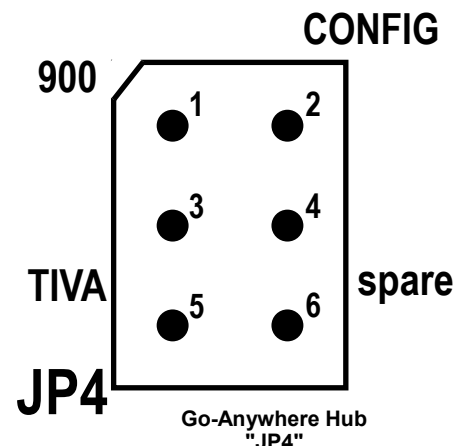
JUMPER / SHUNT DESCRIPTIONS

Also refer to the Wiring Diagram on page 79.

J8   Cut to enable Control tamper as keypad 1 tamper
JP2   Insert shunt on power up to create Cold Start, then remove (see page 61 for the full Cold Start procedure)
JP4   Configuration jumper (Technical Support use only)

2. Install the Keypad

SELECT MOUNTING LOCATION

Keypad installation is basically identical for all models. The **ISEC-WL-KEYPAD** (in Kit 1) is battery powered, requiring one CR123 Lithium battery (with optional 2nd battery for extended life). Both the **ISEC-WL-TOUCH 4.3" Color Touchscreen Keypad** (in Kit 2) and the **IBR-TOUCH-WL 7" Wireless IoT Touchscreen** (in Kit 3) require an un-switched 120VAC electrical wall outlet to supply power to the 12V@1A power adapter (select a location that allows the power wires to be hidden within the mounting surface). Mount keypads within easy reach of the exit/ entry door(s) to simplify entry or exit. To ensure a constant wireless connection, mount the keypad between approximately 15 and 100 feet of the Go-Anywhere Smart Hub, where you find good signal strength between the keypad and the Go-Anywhere Hub. Mount the keypad indoors only, avoiding high condensation areas such as bathrooms. Avoid mounting where direct sunlight or bright light shines directly on the display screen. Install in indoor locations only. Environmental temperature limits: **ISEC-WL-KEYPAD** LCD keypad: 32°F to 122°F. **ISEC-WL-TOUCH** 4.3" Color Touchscreen Keypad: -10°F to 140°F. **IBR-TOUCH-WL** 7" Wireless IoT Touchscreen: 32°F TO 122°F.

ISEC-WL-TOUCH Keypad Diagnostics (Optional)

See **ISEC-WL-TOUCH "System Diagnostics"** on page 65 to help you find the optimum mounting location for your **ISEC-WL-TOUCH** keypad by displaying the signal strength of the 900MHz radio signal link between the **Go-Anywhere Hub** and the **ISEC-WL-TOUCH** keypad.

ISEC-WL-KEYPAD
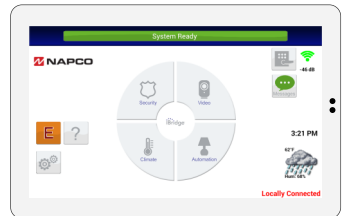*Wireless Battery-Operated Standard Keypad*

ISEC-WL-TOUCH
Wireless 900MHz Touchscreen

KEYPAD INSTALLATION

1. Detach the keypad rear case by inserting a flat head screwdriver into the two slots at the bottom, then push and turn the screwdriver to unhook the two plastic tabs.
2. At the final mounting location, use the keypad rear case as a template to mark the mounting holes (always use a level to ensure horizontal mounting). For keypads powered by the wall adapter, mark the center hole for the power wire.
3. Install the Sliding Label Plate (Kit 1 **ISEC-WL-KEYPAD** model only):
   - With the handle facing forward, affix the label and felt backing.
   - With the handle facing forward, push the Plate down the guides at the rear of the keypad until it snaps into place.
4. Drill the two keypad mounting holes (four holes with the **IBR-TOUCH-WL**) in the mounting surface. When mounting to hollow drywall or similar surface, we recommend using wall anchors or similar hardware appropriate for the installation.

IBR-TOUCH-WL
Smart 7" IoT Touchscreen (Requires network connection)

   For keypads powered by the power adapter:
   - Using a 1/2" drill bit, drill the center hole and snake the power wire inside the wall and out through the drilled center hole. Do not connect the power adapter to the electrical wall outlet at this time.
   - Firmly connect the power wire connectors and then push the wire and the connectors back into the drilled wall center hole until the rear case is flat against the wall surface. Insert screws through the rear case mounting holes and secure. **Important:** Do not over-tighten the mounting screws; over-tightening may distort the rear case.
5. Power the keypad: For the battery-powered **ISEC-WL-KEYPAD**, insert battery (provided) into 1 of the 2 battery holders; otherwise, power up the power adapter.
6. Assemble the keypad by placing the top edge of the keypad front case over the two hooks at the top of the rear case. Push the bottom of the keypad until it snaps together.
7. Power the Go-Anywhere Hub and test the keypad signal strength: The system will not allow arming and disarming without a valid Wi-Fi link. Test the keypad by arming STAY (press **1 2 3 STAY**, and the keypad display will read **ARMED STAY**) and disarming (press **1 2 3 ENTER**, and the keypad display will read **READY**). **Note:** The keypad factory default User Code is **1 2 3**; this can be changed later.

ADD AN ADDITIONAL KEYPAD

Program the Go-Anywhere Hub by entering the "**RF ID #**" (printed on the sticker to located on the back of the keypad) into the iSecure Cloud Web Portal, as follows: Click **Wireless Modules** > **Keypads**, then complete all of the fields for each additional keypad. When finished, click **Save** and click **Upload/Download** to send the data to your **Go-Anywhere Hub**.

IMPORTANT: All wireless devices, including Z-Wave devices, must be signal tested with all enclosure covers fully closed, including the Go-Anywhere Hub.
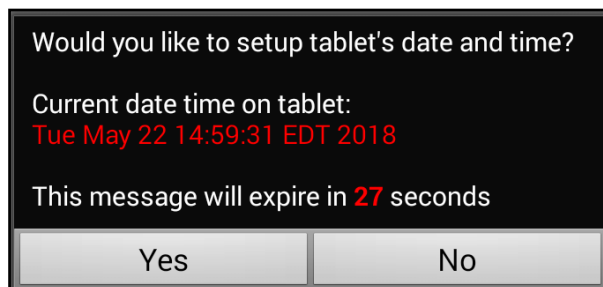
> **IMPORTANT:** The **ISEC-WL-TOUCH** LCD display is made of glass, therefore avoid excessive mechanical shock or that application of strong pressure on the LCD surface. In addition, the polarizer used on the LCD surface can be scratched if proper care is not taken. To clean dust or dirt, wipe gently with a lint-free cloth that is damp with isopropyl or ethyl alcohol only. ***Do NOT use water, ketone or aromatics and never scrub the surface!***

Configure the IBR-TOUCH-WL 7" Touchscreen

1 With power applied to the Go-Anywhere Smart Hub, power the IBR-TOUCH-WL. The unit will start within about 5 seconds (the unit can be manually powered by pressing and holding the small button on the right side for 10 seconds). Upon power up, the **Setup Wizard** will automatically start (follow the sequence of images starting with step 5). If the **Setup Wizard** does not automatically start, press and hold the **System Settings** ("gear") icon, enter your Dealer password, then tap **Setup Wizard**.

System Settings button

2 Tap **Yes** and set the date, time and Time Zone (if necessary). **IMPORTANT:** Outdated digital certificates will disallow connection to your security system, as well as inhibiting necessary automatic firmware downloads.
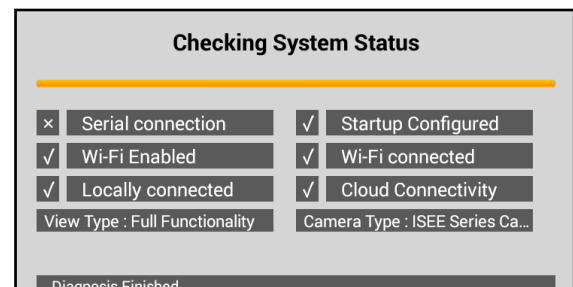
> Would you like to setup tablet's date and time?
>
> Current date time on tablet:
> Tue May 22 14:59:31 EDT 2018
>
> This message will expire in 27 seconds
>
> | Yes | No |

3 Wait for the system diagnostics process to complete. Functional components are marked with a check; items not configured or disabled are marked with an "x". Selections are blank when the **Setup Wizard** is run for the first time. Tap **Configure** to continue.
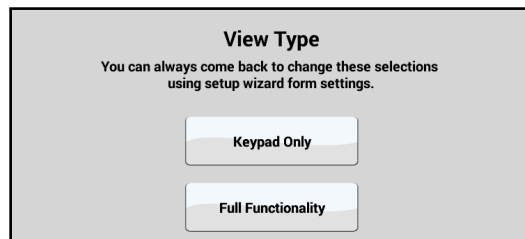
> **Checking System Status**
>
> | × Serial connection | √ Startup Configured |
> | √ Wi-Fi Enabled | √ Wi-Fi connected |
> | √ Locally connected | √ Cloud Connectivity |
> | View Type : Full Functionality | Camera Type : ISEE Series Ca... |
>
> Diagnosis Finished...

4 Select how the IBR-TOUCH-WL will be used. If it will only be used as a security system keypad, tap **Keypad Only** (jump to step 6). To include video camera and Z-Wave functions, tap **Full Functionality**.
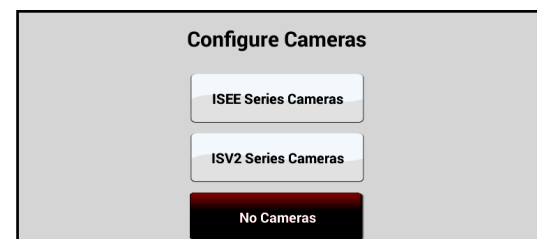
> **View Type**
> You can always come back to change these selections using setup wizard form settings.
>
> Keypad Only
>
> Full Functionality

5 If you have an ISEE-WAP with existing older iSeeVideo cameras, tap **ISEE Series Cameras**; if your system includes the newer **ISV2** models, tap **ISV2 Series Cameras**; for systems without cameras, tap **No Cameras** (cameras can always be added later). **Note: ISEE** and **ISV2** cameras cannot be combined.
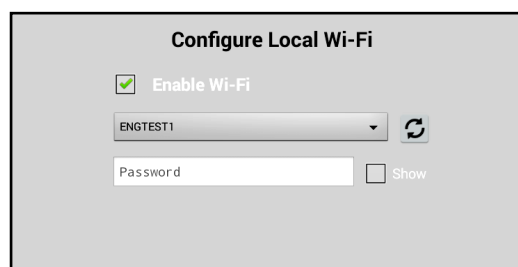
> **Configure Cameras**
>
> ISEE Series Cameras
>
> ISV2 Series Cameras
>
> No Cameras

6 To connect through the customer's wireless router, check **Enable Wi-Fi**; select the router name from the pull-down and have the customer type their router Password (tap the "Refresh" button to the right of the pull-down if the customer's router is not listed). When finished, tap **Save & Next>>**.

> **Configure Local Wi-Fi**
>
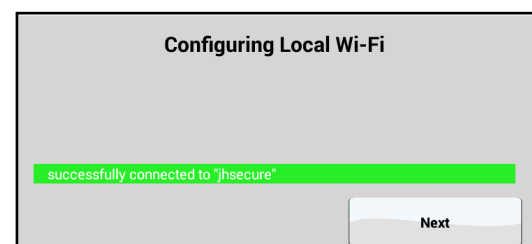> ☑ Enable Wi-Fi
>
> ENGTEST1
>
> Password   ☐ Show

7 Wait until the message indicates the connection to the customer's wireless router is complete, then tap **Next**.

> **Configuring Local Wi-Fi**
>
> successfully connected to "jhsecure"
>
> Next

8 As shown in the image below, the system will then automatically try to connect the IBR-TOUCH-WL locally through Wi-Fi, provided the Hub is connected either by the wired Ethernet connection or the Wi-Fi connection. When connected, tap **Next**. If you selected **Keypad Only**, jump to step 11.

Discovering Local Connection

Connected Successfully

Next
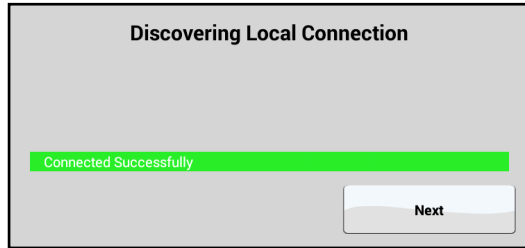
9 The IBR-TOUCH-WL will automatically attempt to connect, through the "cloud", to the NAPCO iSecure account. Enter your administrator account **User ID** and **Password** and tap **Finish**.
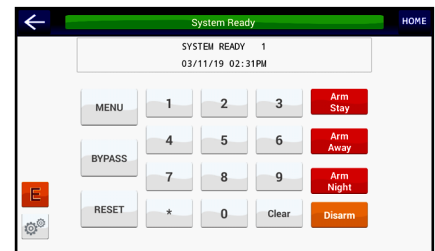
iBridge Credentials

iBridge User ID

iBridge Password   ☐ Show

Finish
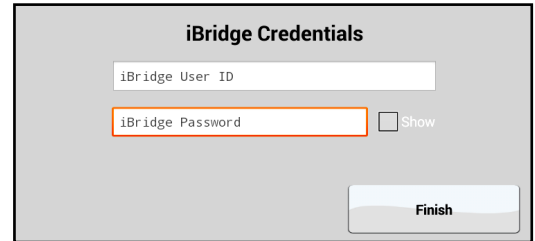
10 Upon connection to the Internet-based account for the iSecure system, the resulting keypad shown in step 12 will be configured for the payment plan selected by the customer. For example, smart phone notifications and camera video.

iBridge Credentials

4511234

ⓘ Connecting to cloud...

○ wait for 7 seconds   ☐ Show

....
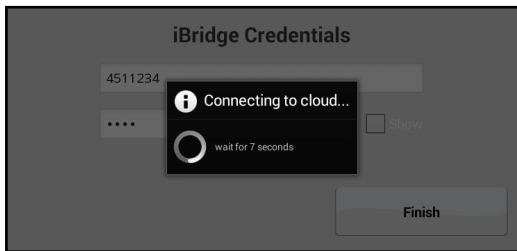
Finish

11 If you selected **Keypad Only** in step 7, the virtual security system keypad will appear (shown below). Stop here -- you're finished!
If you selected **Full Functionality**, you're almost finished...go to next step...

System Ready   HOME

SYSTEM READY   1
03/11/19 02:31PM

MENU 1 2 3 Arm Stay
      4 5 6 Arm Away
BYPASS 7 8 9 Arm Night
RESET * 0 Clear Disarm

12 Be sure to verify the touchscreen display reflects the current status of the security Hub. **Note:** The red text at the bottom right describes the connections. In this example, the IBR-TOUCH-WL is connected to the Go-Anywhere Smart Hub through its Wi-Fi connection.

System Ready

iBridge Connected Home

Security   Video

iBridge

Climate   Automation

-59 dB

Messages

3:31 PM

Locally Connected
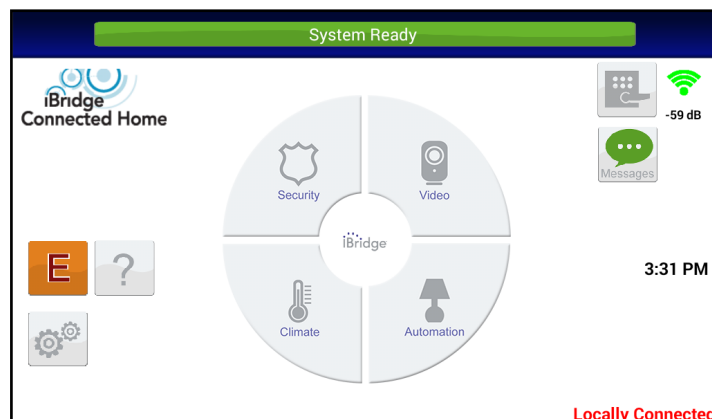
3. Install Motion Sensors

The **ISEC-MOTION** provides protection by detecting motion in protected areas.

GENERAL DESCRIPTION

The ISEC-MOTION is an advanced PIR sensor designed for use with Napco's wireless receivers. The unit is powered by two supplied 3-volt lithium batteries (estimated battery life 3 years). When battery voltage drops below normal, a low-battery report will be sent to the receiver (replace with Duracell DL123A, Varta/Power-One CR123A or Panasonic CR123A only). Coding switches are not used in the ISEC-MOTION. Each transmitter has a unique factory-programmed RF ID code (printed on the unit) that distinguishes itself to the receiver. (**Note:** Be sure to enter all numbers and/or letters, including leading zeros, if any).

SPECIFICATIONS

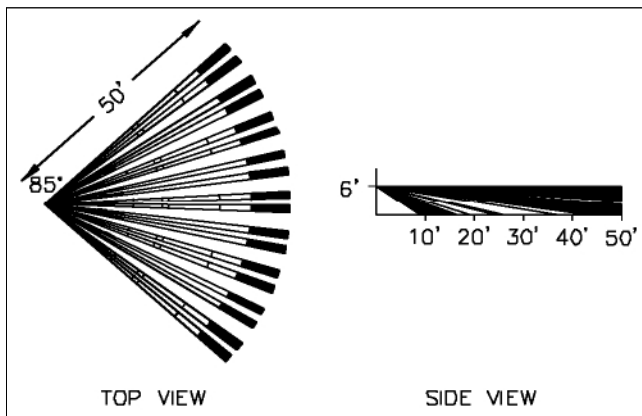**PIR Coverage (l x w):** 50' x 50' (15.2m x 15.2m) at 20°C (68° F), typical.
Operating Temperature: 0° to +50°C (32° to 122°F)
Mounting: Wall or corner, 10' (3m) max.
Dimensions: 4.5'' x 2.5'' x 1.7'' (11.4cm x 6.4cm x 4.3cm) (HxWxD)
Shipping Weight: 6.4oz (181gm)

STANDARD LENS

Standard Lens coverage pattern for 6' mounting height.

FEATURES

- Signal Selective Processing for reliable operation
- Unique circuit design protects against false alarms due to radio-frequency interference
- Vertical and horizontal aiming capabilities
- Dual-element sensor
- Lens Bank of optional accessory lenses
- Large lens area assures high sensitivity
- Small size with ample wiring space
- Corner mountable
- Built-in Tamper microswitch

REPLACING THE LENS

The lens is "sandwiched" between the front case and a Lens Support insert, which also serves to hold the LED jewel in place. To install one of the accessory lenses, proceed as follows.

1. To open the case, insert a small screwdriver in the slot at the bottom and push up slightly. Remove the front cover.
2. Push up on the lower edge of the Lens Support until it is clear of its retainers, then pull out the support from the bottom. Be careful not to dislodge the LED jewel. Note: If the

LED jewel pops out, reinsert it with the small index key positioned at the top.
3. Slide out the lens and install the replacement.
4. Replace the Lens Support: Slip the Lens Support under the top guides with its two tabs straddling the LED jewel, then push in at the bottom until the Lens Support snaps into place. Removing Lens Support.
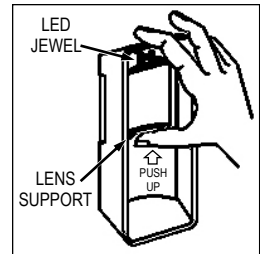

INSTALLATION

An assortment of "push-thru" holes is provided in the rear case for wall or corner mounting. Install the two lithium batteries as shown in the illustration below. Loosen the Height Lock Screw and set the board's height scale to the mounted height of the unit. Retighten the screw. To reduce range if necessary, set height scale at a higher number than actual mounting height of unit. Do not point the unit at sources of heat, such as radiators, space heaters, etc.

WALK TESTING

The LED will light in the Walk-Test Mode only. Allow at least 3 minutes for the unit to settle. Press the Walk-Test Button to access the Walk-Test Mode for 5 minutes.
Walk out to the maximum range and walk across the field of coverage. The LED will light whenever motion is detected. Check for environmental disturbances with all disruptive devices (heaters, air conditioners) on and no human activity within the coverage area. Adjust beams laterally by removing the Lens Support (see REPLACING THE LENS) and sliding the lens slightly left or right. To block a problem zone, apply a piece of lens foil (supplied) to the inside segment of the lens representing that zone.
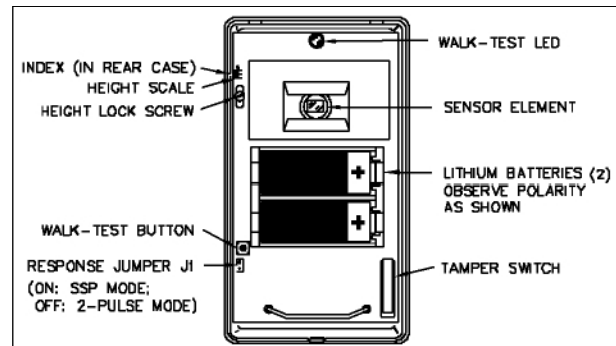
SETTING THE OPERATING MODE

The ISEC-MOTION comes set for operation in the Signal Selective Processing (SSP) Mode. To change to the fixed 2-pulse bipolar mode for use with the Long-Range Lens (LENS840), Barrier Lens (LENS818) or other lens with a limited number of beams, remove the Response-Mode Jumper, J1.

- To program the Motion sensor in the iSecure portal, see page 45.

Sensor Configuration

4. Install Glass-Break Sensors

The **ISEC-GLASSBREAK** is an advanced wireless acoustic glass-break sensor for use with all iSecure-Series *Go-Anywhere Hubs* and receivers. Each sensor has a unique RF ID code (printed on the rear housing) that distinguishes itself to only your *Go-Anywhere Hub*.

The **ISEC-GLASSBREAK** is an advanced wireless acoustic glass-break detector for use with the iSecure **Go-Anywhere Smart Hub** and receivers. Each transmitter has a unique RF ID code (printed on the sensor module and on the rear case) that distinguishes itself to the receiver. Refer to Go-Anywhere Smart Hub instructions for entering this code and its checksum digit into the Hub. Be sure to enter all numbers and/or letters, including leading zeros, if any.

The detector is powered by two type DL123A or CR123A 3-volt lithium batteries, which are factory installed. To energize the unit, simply install the supplied Power-Up Jumper across pins JP1 near the positive terminals of the batteries.
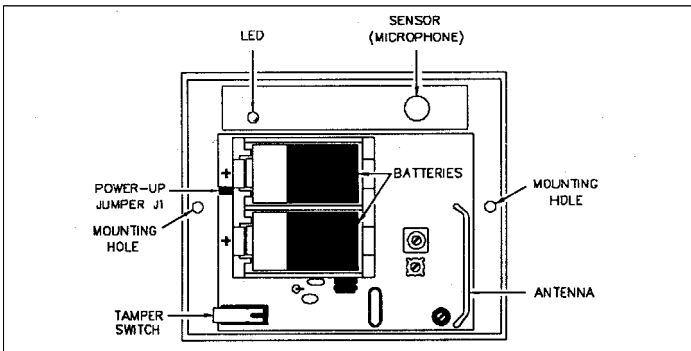

Fig. 1. ISEC-GLASSBREAK detector, cover removed.

SPECIFICATIONS

Microphone: Electret, omnidirectional
Temperature Range: 32°F to 120°F (0°C to + 50°C)
Range of Coverage (radius distance from sensor):
  Plate Glass, 25' (7.6m)
  Tempered, Wired, or Laminated Glass, 20' (6m)
  Note: (1) Use 20' (6m) radius if unsure of glass type. (2) If not using a Sentrol 5709-C Tester to verify range, reduce range to 15' (4.5m) for windows with blinds or unlined drapes. (3) Reduce coverage 50% for armor-coated glass.
Glass Thickness:
Plate Glass, 3/32" to 1/4" (2.4 to 6.4mm)
Tempered Glass, 1/8" to 1/4" (3.2 to 6.4mm)
Wired Glass, 1/4" (6.4mm)
Laminated Glass, 1/8" to 1/4" (3.2 to 6.4mm)
Dimensions: 3.13 x 4.24 x 1.7" (8.0 x 10.8 x 4.3cm)
(h x w x d) Shipping Weight: 7.5oz (213gm)

FEATURES
- Superior immunity to false alarms
- Excellent detection, even through blinds and light drapes
- 25' radius
- Automatic test for easy installation
- "Hand-clap" test for sensor verification
- Includes lithium batteries

MOUNTING
Note: The ISEC-GLASSBREAK may be mounted in any position with no degradation in performance. However, for reference purposes in this text, the unit will be considered oriented with the antenna at the right, as shown above.

The detector mounts with two #6 screws (supplied). The rear case may be used as a template to mark mounting holes on the wall.

The sensor must be in direct line of sight of all windows being protected. Reliable detection cannot be expected around corners, in other rooms, etc.

For optimum false-alarm immunity, avoid installing the unit

- in rooms with lined, insulating, or sound-deadening drapes;
- in rooms with closed wooden window shutters inside;
- in rooms smaller than 10' x 10' (3m x 3m), and in rooms with multiple sounds, such as kitchens, glass booths, noisy areas, garages, etc.
- within 4' (1.2m) of noise sources such as televisions, speakers, sinks, doors, etc.
- on ceilings higher than 15' (4.5m), if mounting on ceiling;
- on 24-hour loop applications (perimeter loop okay);
- where white noise (such as air compressor noise) is present (may cause false alarms by saturating glass-break frequency spectrum).

Wall Mounting
Since the sound of breaking glass travels outward from the source, the best location for the ISEC-GLASSBREAK detector is on the wall opposite the windows being protected (assuming, of course, that the wall is within the sensor's range). Detection is reduced with same-wall mounting since such detection is partially dependent upon sound reflected off the opposite wall.
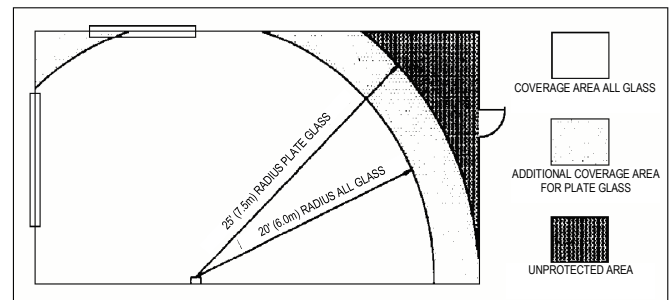

Fig. 2. Typical coverage pattern for wall-mounted units.

Ceiling Mounting
Similarly, a ceiling-mounted sensor will detect better if mounted 6' to 10' (2—3m) away from the glass, rather than directly above it. Mount the detector on any type of ceiling in direct line of sight of the windows being protected, at least 1' (0.3m) and preferably 3' (1m) from the glass. See Fig. 3.

Installation Notes
1. The unit is designed to detect the shattering of framed glass mounted in an outside wall. Testing the sensor with unframed glass, broken bottles, etc. may not trip the sen-
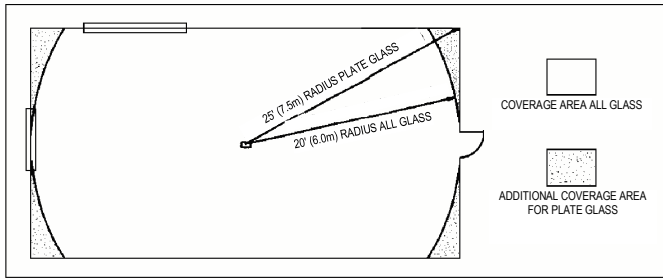
Fig. 3. Typical coverage pattern for ceiling-mounted units.

sor. The unit typically does not trip to glass-break tests in the middle of a room, as such breaks are false alarms.

2. False alarms are most likely to occur when installed on a 24-hour loop in glass airlocks and glass vestibule areas, when mounted above sinks, when used in residential car garages, and in other small, acoustically live rooms and rooms where multiple sound can reflect and eventually duplicate the glass-break frequency pattern. For occupied-area glass-break protection in such applications, the use of shock sensors is recommended.

3. Installing the unit on 24-hour loops will increase false alarms. The ISEC-GLASSBREAK is recommended for perimeter loops and is designed to function without false alarms in occupied areas. On a 24-hour loop, which is armed all day, all night, every day, the false alarm technology will be pushed to its limit since some sounds in some conditions can duplicate the points on the glass-break pattern that the unit detects. Install the unit on a perimeter loop, which is armed whenever the door and window contacts are armed. For occupied-area installations, the ISEC-GLASSBREAK's false-alarm immunity is best in rooms with only moderate noise.

4. The unit detects the shattering of glass. As with all glass-break detectors, it may not consistently detect cracks in glass or bullets that break through the glass or break out the glass. Glass-break detectors should always be backed up by interior protection.

TESTING
Preliminary
Use a Sentrol Model 5709-C hand-held tester (available separately) to place the detector into its test mode and for all functional testing.

Set the tester for tempered glass. Holding the tester speaker directly over the sensor, activate the tester. The detector will go into alarm (LED will come on for about 4 seconds), then go into the test mode for one minute. While in the test mode, the detector's LED will blink continuously. Extend test-mode time by firing the tester at least once a minute.

Testing the Sensor
The 5709-C tester has a setting for each type of glass. The tester should always be set for Tempered or Laminated glass (either is correct and both have the same range) unless the installer is certain that the glass to be protected is plate glass. Holding the tester near the surface of the glass, aim the tester at the detector and hold down test button. If drapes or blinds are present, test with the hand-held tester behind the closed

drapes or blinds (do not use detector with heavy or lined drapes). If the detector is mounted on the same wall as the glass, point the tester at the opposite wall.

If the LED on the detector comes on for about 4 seconds when the tester is triggered, the glass is within detection range. If the LED does not come on but just continues to blink, reposition the detector closer to the windows and retest. This may require the use of additional detectors in order to achieve the desired coverage. In the unlikely event that the detector does not respond within its stated range of coverage, check the battery in the tester; a new battery will likely restore range. The ISEC-GLASSBREAK detector will automatically revert to its normal operating mode approximately 1 minute after the last test.

Note: Room acoustics can artificially extend the range of a glass-break sensor. The specified range of the ISEC-GLASSBREAK detector has been established for worst-case conditions. While the sensor will likely function at additional range, it may miss a minimum output break, or room acoustics may be changed at some future time, bringing sensor range back into normal 20' (6m) conditions. Do not exceed the rated range of the sensor, regardless of what the tester shows.

Test-Mode Operation
The ISEC-GLASSBREAK ignores most false alarm sounds, including glass break testers. In order to test the ISEC-GLASSBREAK detector, a test mode is used. In its test mode, sensor processing of the glass-break pattern in the upper and lower frequencies is disabled, thus the sensor is listening only for the midrange frequencies, which the tester produces. It is the midrange frequencies that determine sensor range.

In the normal operating mode, the LED does not blink unless the sensor hears a loud sound. In normal operation, the ISEC-GLASSBREAK detector will not be tripped by the tester unless the tester is held right up against the sensor.

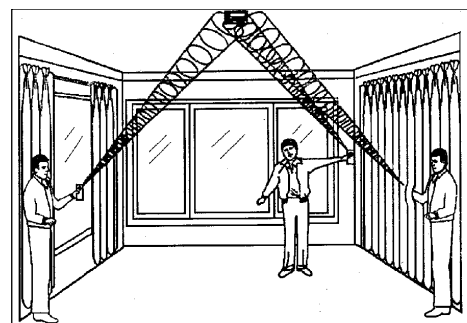**Note:** Each time the detector goes into alarm, it also goes into the test mode for one minute.

Fig. 4. Testing the sensor.

Hand-Clap Test
The ISEC-GLASSBREAK can be tested by the installer or the end user while in its normal mode simply by clapping loudly under the sensor. The LED will blink twice, but the detector will not trip. This verifies visually that there is power to the detector and that the microphone and circuit board are functioning. The hand-clap activation is momentary so there is no appreciable effect on battery life.

Sensor Configuration

5. Install Window / Door Transmitters
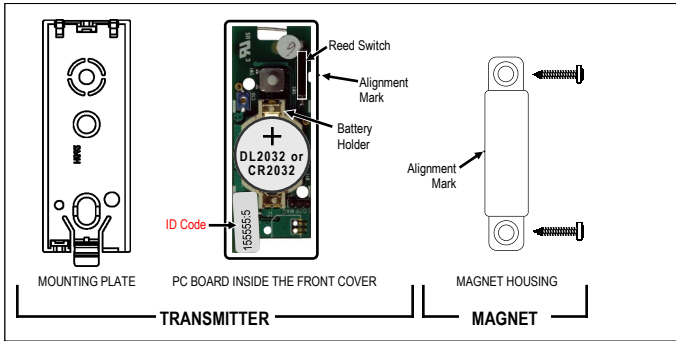
GENERAL DESCRIPTION

Fig. 1. ISEC-DW-XMITTER Component Parts*

The ISEC-DW-XMITTER is a low profile window/door transmitter designed for use in Napco iSecure wireless systems. Used with the supplied magnet, the transmitter functions as a window/door sensor. The ISEC-DW-XMITTER is powered by a 3-volt lithium battery (Energizer CR2032 or Duracell DL2032), that powers the transmitter for up to 5 years. When the battery cell voltage drops below normal, a low-battery report is sent to the **Go-Anywhere Smart Hub** and "E05" (followed by the zone number) will appear on the keypad display.

INSTALLATION

The PC board is factory installed in the transmitter front cover **and must not be removed**. The magnet and transmitter can be mounted in any orientation as long as the alignment marks are placed side-by-side and the magnet is placed up to 5/8" of the transmitter, depending on mounting surface (for reference purposes in this text, the transmitter will be considered oriented with the reed switch at the top, as shown in Fig. 1).

1. **Open the case.** Remove the ISEC-DW-XMITTER transmitter cover from its Mounting Plate by pressing the tab and lifting the Mounting Plate from the cover.
2. **Remove silk strip to activate battery cell.** Battery is preinstalled. Ensure cell remains inserted in its holder after removing silk strip. **Note:** When replacing a weak battery, always remove the old battery from the edge of the battery holder without touching its metal terminals. Always observe polarity; with the positive (+) terminal facing up, press the cell into the holder (see Fig. 1). **Do not insert upside down**.

3. **Select transmitter location.** Avoid mounting the transmitter near the floor. Low level mounting can reduce transmission range and may subject the transmitter to damage.
4. **Install transmitter Mounting Plate and Magnet.** Use #6 flat-head screws or double-sided tape (supplied) to secure. Do not over-tighten the screws securing the Magnet Housing. Observe internal magnetic reed switch alignment marks on both the transmitter Front Cover and Magnet Housing. Mount Magnet up to 5/8" of the transmitter Front Cover. If mounting the Magnet with double-sided tape, the Magnet Housing tabs may optionally be removed--**use a utility knife only**--**do not bend or break off tabs** (see Fig. 2).
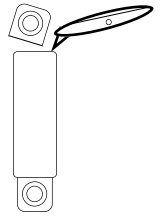

Fig. 2. Remove Magnet Housing tabs with utility knife **only**.

5. **Make note of the 6-digit ID code** with checksum digit printed on the inside sticker. Be sure to make note of ALL numbers and/or letters, including leading zeros, if any. This data will be used when programming the Go-Anywhere Smart Hub in step 7.
6. **Close the transmitter case.** Close by engaging the retaining tabs near the reed switch, then snapping the Front Cover to the Mounting Plate.
7. **Program the Go-Anywhere Smart Hub.** Each transmitter has a unique factory-programmed ID code that distinguishes itself to the receiver. The ID code is located on the rear of the Mounting Plate. **Note:** The ISEC-DW-XMITTERs included with the ISEC-KITs are pre-programmed; only new transmitters require the following programming steps: Enter (a) the zone number to which the transmitter will be mapped; (b) the 6-digit ID code with checksum digit; and (c) the wireless point number. See the Go-Anywhere Smart Hub installation instructions for how to enter the ID code and checksum digit; be sure to enter all numbers and/or letters, including leading zeros, if any.

Caution: Changes or Modifications not approved by NAPCO may void the user's authority to operate the equipment. This device may not cause interference. This device must accept any interference, including interference that may cause undesired operation of the device.

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. **Caution:** Changes or modifications not expressly approved by manufacturer could void the user's authority to operate the equipment.

APPLY LABEL OVER SCREW HEAD
Place small individually supplied label (.375" dia., part # LA2867LF) over screw head (see arrow) to prevent shorting battery terminals.

*Note: Plastic housing and PCB design may vary from images in this document.
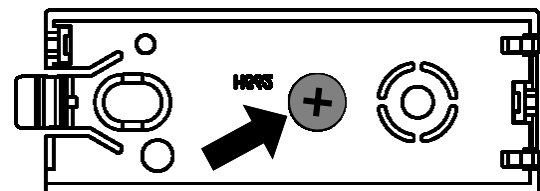
6. Install Smoke Sensors

Description: The ISEC-SMOKE is a high-quality photoelectric smoke detector with built-in supervised digitally-coded radio transmitter. It is compatible with Napco's iSecure-series system that monitor alarms, restores, low battery and status.

During normal operation, the LED on the ISEC-SMOKE flashes once every 30 seconds. As soon as smoke is detected, the ISEC-SMOKE sounds a local alarm and the trans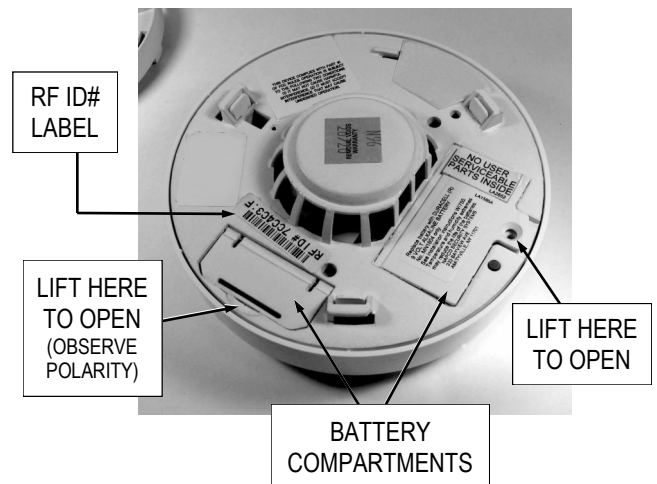mitter sends an alarm signal to the supervised receiver. The alarm signal is repeated every 10 seconds thereafter as long as smoke is still present. A restore report is sent when the smoke detection chamber clears. Supervisory status reports are sent from the ISEC-SMOKE every hour.

Coding switches are not required or used in the ISEC-SMOKE. Each transmitter is assigned a unique identification code number at the factory.


Step 1. Remove the mounting plate.   Remove the ISEC-SMOKE mounting plate by turning the plate counter-clockwise and pulling it up.

TWIST MOUNTING PLATE TO UNLOCK

LIFT TO REMOVE MOUNTING PLATE

Step 2. Identify components.   Examine the ISEC-SMOKE to identify the component locations.

RF ID# LABEL

LIFT HERE TO OPEN (OBSERVE POLARITY)

LIFT HERE TO OPEN

BATTERY COMPARTMENTS

Step 3. Install battery. Place one 3-volt lithium Duracell DL123A, Varta/Power One Model CR123A or Panasonic CR123A <u>NEGATIVE END FIRST</u> in its battery compartment, observing correct polarity (**<u>see page 21</u>**). Connect one 9-volt Duracell MN-1604 alkaline battery and place it into its battery compartment. **Install batteries and enroll the ISEC-SMOKE into the Hub before mounting**.

(+)

(–)

3-VOLT BATTERY COMPARTMENT

9-VOLT BATTERY COMPARTMENT
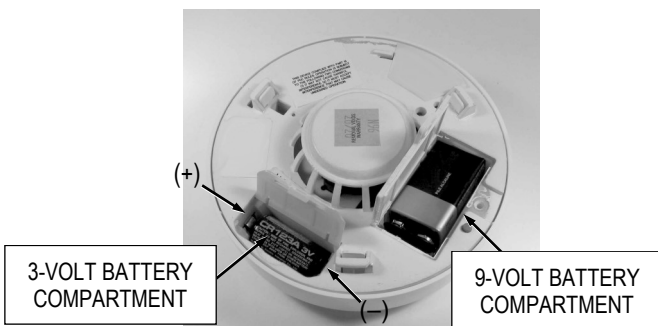
The smoke detector and transmitter are powered by one 9-volt alkaline battery and one 3-volt lithium battery (supplied) which can power the unit for at least one year. If the battery voltage drops below normal, a low-battery report will be sent to the receiver with any status or alarm transmission. If a low-battery condition is indicated, always replace both batteries.

NOTE: Temperature and humidity extremes may reduce the life of the batteries. In addition, the ISEC-SMOKE detector is designed to prevent re-mounting to the mounting plate without the detector battery installed.
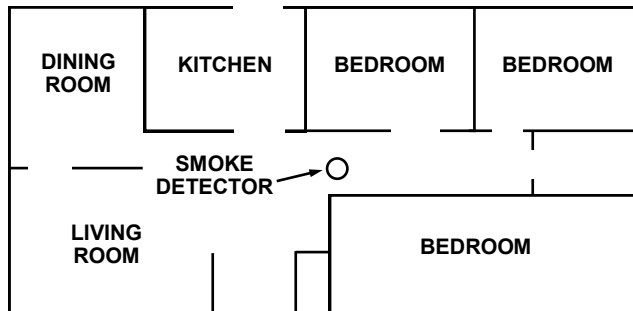
Use Only Batteries Specified In Marking. Use of A Different Battery May Have A Detrimental Effect On Detector Operation.

Step 4. Pick smoke-detector location. Referring to the NFPA standard on page 22, select a suitable location to mount the ISEC-SMOKE.
Note: *Mounting the ISEC-SMOKE on foil-backed wallpaper is NOT recommended because the radio range will be reduced.*


Step 6. Map the ISEC-SMOKE Transmitter. Enter the following:

- the zone to which the transmitter will be mapped;
- the 6-digit RF identification number/1-digit checksum number printed on the transmitter (include all numbers and/or letters and leading zeros, if any); and
- the transmitter point number ("1").

NOTE: In fire alarm installations, the Hub must be programmed to activate the fire alarm bells or horns upon detection of a fire.

Step 8. Test system weekly with unit mounted. If the system is monitored, notify central station of impending test. Press and hold the **Test** button for about 5 seconds and release when the sounder turns on. While holding the button down, the LED will start to flash rapidly indicating it is about to go into alarm. Do not hold the button down longer than 10 seconds or you will *Silence* the unit after the alarm is sounded (see **Silencing the Unit / Silence Mode** at right). Verify that the ISEC-SMOKE triggers the correct zone on the Hub and that the correct report is sent to the central station.
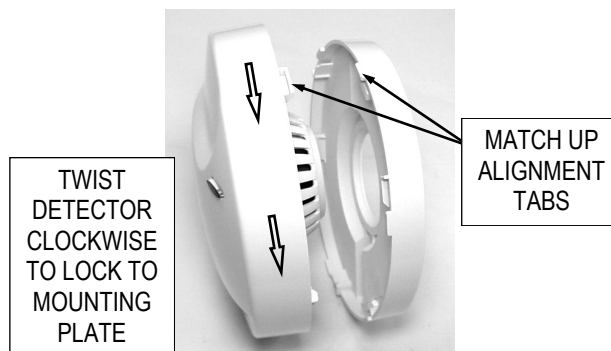

TEST BUTTON
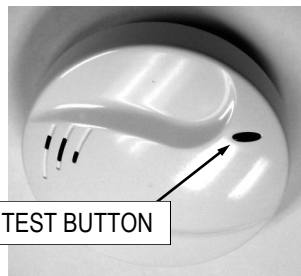
NOTE: Smoke detectors are not to be used with detector guards unless the combination has been evaluated and found suitable for that purpose.

Step 5. Install mounting plate. Use the two screws and anchors provided to attach the mounting plate to the wall or ceiling.

SCREW ANCHORS FOR WALLBOARD
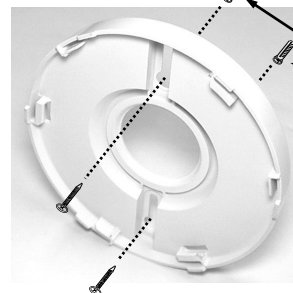
Step 7. Attach the ISEC-SMOKE to mounting plate. Match up alignment tabs on detector and plate. Turn detector clockwise until it locks into place.

TWIST DETECTOR CLOCKWISE TO LOCK TO MOUNTING PLATE

MATCH UP ALIGNMENT TABS

Silencing the Unit / Silence Mode
If the unit is in alarm due to a smoke condition, it will stop sounding when the smoke condition has cleared. However, if you want to *temporarily silence* the sounder, press and hold the **Test** button for more than 10 seconds. During this *Silence Mode*, the unit will not react to any smoke nor report any alarms but will chirp every 30 seconds (without a simultaneous LED flash) to remind you it is in *Silence Mode*. It will exit *Silence Mode* after approximately 5 minutes or less on its own. **Note:** If smoke is still present in the chamber after exiting Silence mode, the detector will go into alarm again. **CAUTION:** When the unit is **not** in alarm, pressing the **Test** button will transmit an alarm, activate the sounder and then place the unit in *Silence Mode* if held for more than 10 seconds. Once the unit enters *Silence Mode*, the **Test** button is disabled until it exits *Silence Mode* on its own.

Low Battery Warning
Sounder chirps and the LED flashes simultaneously.

Maintenance Warning
The unit will warn that it must be cleaned when the unit chirps (without a simultaneous LED flash) but the LED flashes between chirps. To clean, vacuum the outside of the unit at least once a year (preferably every six months) using a soft brush attachment. *Do not attempt to clean the unit in any other way.* If this maintenance procedure fails to clean the unit sufficiently, call for service and/or replace the unit.
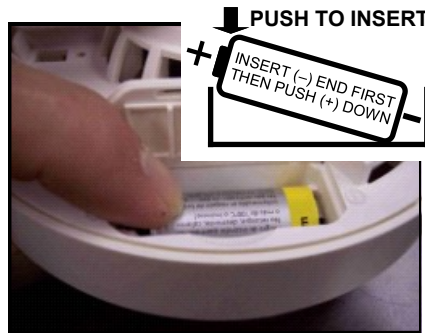
IMPORTANT! Use proper polarity when installing the 3V lithium battery. **Always** install the *negative* end first as shown below:

PUSH TO INSERT

INSERT (−) END FIRST THEN PUSH (+) DOWN
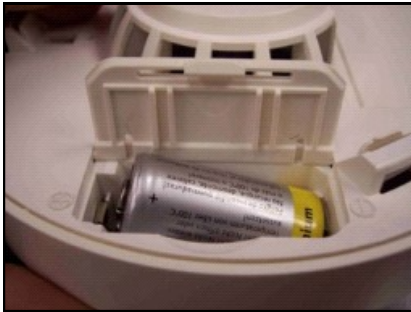
1. Place negative end in first.

2. Push down on positive end
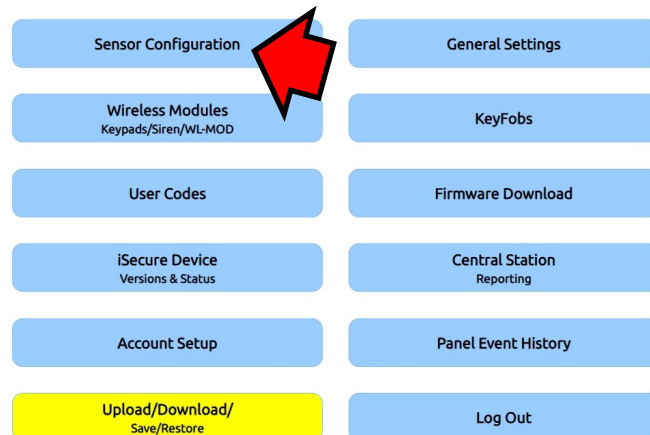
(To remove battery, pull up on pos [+] end)

3. **Press and hold TEST** button for 5 seconds to activate the internal sounder, send a supervisory check-in (but NOT an alarm), and clear the low battery trouble from the ISEC-SMOKE.

4. **Separate Test (optional):** Press and hold **TEST** button (see page 20 for location) for 10 seconds to activate the internal sounder, send an alarm and clear the low battery trouble. Notify central station of impending test (if system is monitored). **Note:** While holding the button down, the LED will start to flash rapidly indicating it is about to go into alarm. Test system weekly with unit mounted.

This smoke detector has a *Silence* feature that will allow the User to temporarily silence the sounder of a detector in alarm. To activate *Silence*, hold down the **TEST** button for 10 seconds. **IMPORTANT:** The detector will chirp every 30 seconds while in *Silence* mode and will automatically exit this mode after 5 minutes. (**Note:** If smoke is still present in the chamber after exiting *Silence* mode, the detector will go into alarm again).

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. **Caution:** Changes or modifications not expressly approved by manufacturer could void the user's authority to operate the equipment.

- See page 48 for full programming information

Sensor Configuration	General Settings
Wireless Modules Keypads/Siren/WL-MOD	KeyFobs
User Codes	Firmware Download
iSecure Device Versions & Status	Central Station Reporting
Account Setup	Panel Event History
Upload/Download/ Save/Restore	Log Out

NFPA STANDARD FOR SMOKE-DETECTOR LOCATION

The ISEC-SMOKE should be installed in accordance with the National Fire Protection Association (NFPA) Standard 72. For your information, the National Fire Protection Association's Standard 72, reads as follows:

11.5.1 One- and Two-Family Dwelling Units.

11.5.1.1 Smoke Detection Where required by applicable laws, codes, or standards for the specified occupancy, approved single- and multiple-station smoke alarms shall be installed as follows: (1) In all sleeping rooms. Exception: Smoke alarms shall not be required in sleeping rooms in existing one- and two- family dwelling units. (2) Outside of each separate sleeping area, in immediate vicinity of the sleeping rooms. (3) On each level of the dwelling unit, including basements. Exception: In existing one- and two-family dwelling units, approved smoke alarms powered by batteries are permitted.

11.8.3 Are More Smoke Detectors Desirable? The required number of smoke detectors might not provide reliable early warning protection for those areas separated by a door from the areas protected by the required smoke detectors. For this reason, it is recommended that the householder consider the use of additional smoke detectors for those areas for increased protection. The additional areas include the basement, bedrooms, dining room, furnace room, utility room, and hallways not protected by the required smoke detectors. The installation of smoke detectors in kitchens, attics (finished or unfinished), or garages is not normally recommended, as these locations occasionally experience conditions that can result in improper operation.

There exist certain situations where the presence of a smoke alarm is not effective, such as smoking in bed, the testing of gas leaks with a flame or for warning against the existence of high carbon monoxide levels inside a family living unit. Current studies have shown smoke alarms may not awaken all sleeping individuals; it is therefore the responsibility of individuals in the household that are capable of assisting others to provide assistance to those who may not be awakened by the alarm sound and to provide assistance to those who may be incapable of safely evacuating the area unassisted.

For family living units with one or more split levels (i.e., adjacent levels with less than one full story separation between levels), a smoke detector required as above shall suffice for an adjacent lower level, including basements. Exception: Where there is an intervening door between one level and the adjacent lower level, a smoke detector shall be installed on the lower level.

- Ceiling-mounted smoke alarms should be located in the center of the room or hall, or not less than 4 inches from any wall. When the detector is mounted on a wall, the top of the detector should be 4 to 12 inches from the ceiling.
- Do not install smoke alarms where normal ambient temperatures are above 100°F (37.8°C), below 40°F (4.4°C) or greater than 92% humidity unless the alarm has been determined to be capable of being used at installation points with higher or lower ambient temperatures. Also, do not locate alarm in front of air conditioners, heating registers, or other locations where normal air circulation will keep smoke from entering the detector. Installing smoke detectors in kitchens, garages or furnace rooms is NOT recommended.

All installation wiring must be in accordance with the provisions of Article 210 of the National Electrical Code, ANSI / NFPA 70. All protected premises fire alarm systems shall be maintained and tested (at least once every month) in accordance with NFPA 72.

FIRE PREVENTION AND ESCAPE

The purpose of an early warning smoke alarm is to detect the presence of fire in its early stages, and sound an alarm giving the occupants more time to exit the premise before the smoke reaches a dangerous concentration level.

Fires start even with the best of housekeeping and fire-prevention procedures. Fire is an unexpected event. Early warning detection alerts occupants in time to act.

KNOW FIRE HAZARDS. No detection device can protect life in all situations. Therefore, safeguards should be taken to avoid such potentially dangerous situations as smoking in bed, leaving children home alone, cleaning with flammable liquids such as gasoline. The best fire protection is minimizing fire hazards through proper storage of materials and general good housekeeping techniques. A cluttered basement, attic, or other storage area is an open invitation to fire.

Careless use of combustible materials and electrical appliances, or overloading of electrical outlets are other prime causes in starting fires.

It is most important that explosive and/or fast-burning materials be eliminated from the home if at all possible. Even after proper precautions have been taken, fires can start. Be prepared.

IN CASE OF FIRE. Leave immediately. Don't stop to pack or search for valuables. In heavy smoke, hold your breath and stay low -- crawl if necessary. The clearest air is usually at the floor.

If you have to go through a closed door, carefully feel the door and door knob to see if undue heat is present. If they seem relatively cool, brace your foot against the bottom of the door with your hip against the door and one hand against the top edge. Open it slightly. If a rush of hot air is felt, slam the door quickly and latch it. Unvented fire tends to build up considerable pressure. Be sure all the household realizes and understands this danger.

Use your neighbor's phone or a street fire alarm box. The job of extinguishing the fire should be left to the professionals. Too many unforeseen things can occur when inexperienced people try to extinguish a fire.
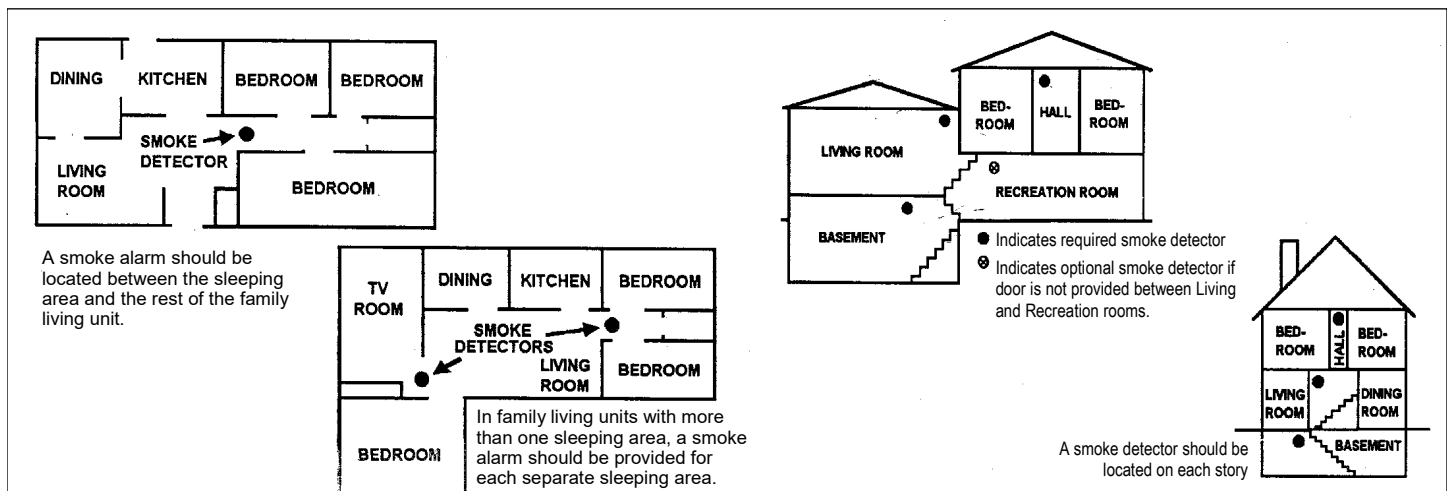
BE PREPARED. Perform fire drills regularly. Use them to assure recognition of an alarm signal. For your protection, simulate different circumstances (smoke in hall, in living room, etc.). Then have everyone react to the situation.

Draw a floor plan and show two exits from each room. Frequently, a knotted rope or ladder from a window will serve this purpose. It is important that children be instructed carefully, because they tend to hide in times of crisis.

It is imperative that one meeting place outside the home be established. You should insist that everyone meet there during an alarm. This will eliminate the tragedy of someone reentering the house for a missing member who is actually safe.

If you have children and/or invalids residing in your household, you can help your fire department. Most fire departments have window decals available for use in children's or invalid's bedrooms. Properly used, these decals will quickly identify sleeping quarters of these individuals and show the department where to look first for members of your household.

Additional information on Household Fire Warning is available at nominal cost from The National Fire Protection Agency, Batterymarch Park, Quincy, MA 02269. Request Standard No. NFPA 72.

A smoke alarm should be located between the sleeping area and the rest of the family living unit.

In family living units with more than one sleeping area, a smoke alarm should be provided for each separate sleeping area.

● Indicates required smoke detector
⊗ Indicates optional smoke detector if door is not provided between Living and Recreation rooms.

A smoke detector should be located on each story

7. Install Heat Sensors

DESCRIPTION

The ISEC-HEAT is a high-quality 135°F (57°C) fixed temperature detector with Rate of Rise. It is compatible with the NAPCO iSecure-series supervised security system.

The ISEC-HEAT incorporates circuitry which will transmit an alarm signal upon an alarm condition, generate an hourly supervisory test signal to the receiver and also monitor and annunciate low battery.

Coding switches are not required or used in the ISEC-HEAT. Each transmitter is assigned a unique identification code number at the factory. The transmitter is powered by one 3V Lithium battery (supplied) which can power the unit for up to two years. If the battery voltage drops below normal, a low-battery report will be sent to the receiver with any status or alarm transmission. If a low-battery condition is indicated, replace the battery.

OPERATION

Rate-of-Rise Feature: A temperature increase of 15°F or more per minute will result in an alarm transmission. When the rate-of-rise element alone has been activated, the detector is self-restoring.

Fixed Temperature: If the temperature of the center disk rises to the detector's rated temperature (135°F / 57°C) an alarm transmission will result. When actuated by the fixed temperature element, the detector is non-restorable and must be replaced. The need for replacement is indicated when the center disk has fallen free; order System Sensor model 5601P to replace detector.

When the ISEC-HEAT detects an alarm as described above, the integral transmitter will send an alarm signal to the receiver. The alarm signal will be repeated every 10 seconds thereafter as long as the alarm condition is present. A restore report will be sent when the condition clears.

WARNING: NOT A LIFE SAFETY DEVICE - USE FOR PROPERTY PROTECTION ONLY

**Step 1. Remove the mounting base.**
Lift the ISEC-HEAT from the base by turning the top of the heat detector counter-clockwise while holding the base stationary.
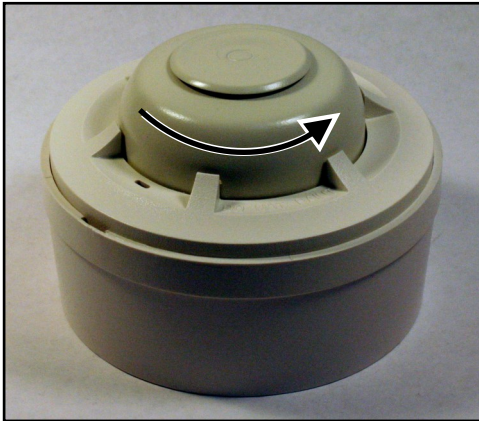
Step 2. Locate the RF ID#
Locate the RF ID# on the rear of the unit. **NOTE:** The RF ID# on the label must be accurately recorded in order to map the transmitter into the system (see Step 7).

**NOTE:** RF ID# is located on the label placed on the rear of the unit

RF ID# 555DF5;6
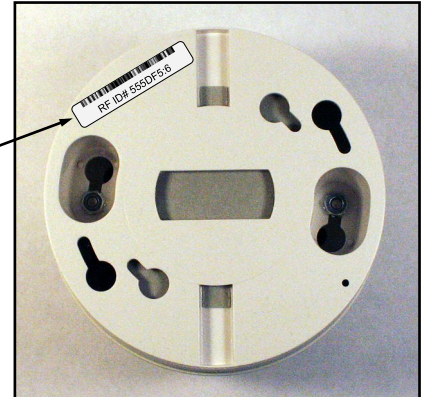
Step 3. Install the battery
Observing polarity, install the supplied battery as shown.
NOTE: A Tamper zone trouble will result when the batteries are re-placed. *Replace battery with a 3V Duracell DL123A, Varta/Power-One CR123A or Panasonic CR123A only. Use of another battery may present a risk of fire or explosion*.

CAUTION: Risk of Fire, explosion and burns. Do not recharge, disassemble, heat above 100°C., or incinerate. Dispose of used batteries promptly. Keep away from children.


GEMC-WL-HEAT 0037S7

3 VOLT
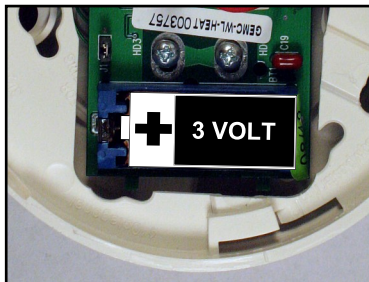
Step 4. Mounting the base to the ceiling
Select mounting location for detector on ceiling; maximum spacing (10ft ceiling) is 50-feet x 50-feet*. Do not locate in direct path of hot or cold air flow. Mark holes using the accompanying mounting template. Use the two screws and anchors provided to attach the mounting plate to the wall or ceiling.

NOTE: The mounting plate may be attached to a *plastic* single-gang electrical outlet box. Do not attach to metallic outlet boxes.

*Refer to NFPA 72 guidelines for spacing reductions when the ceiling height exceeds 10 feet.
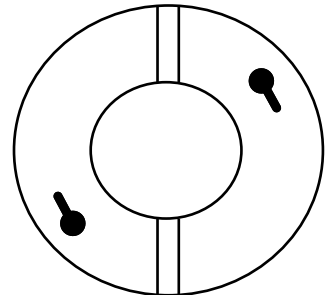
7. Install Heat Sensors (cont'd)

Step 5. Reinstall the ISEC-HEAT into the mounting base.
Insert the ISEC-HEAT into the base and turn the top clockwise while holding the base stationary until the ISEC-HEAT gently snaps into place.

Step 7. Testing the system
Test system with unit mounted. If the system is monitored, notify the central station of the impending test.

The rate-of-rise feature may be tested by a quick application of heat from any convenient source. A portable hair dryer is recommended. However, do not apply heat that exceeds the fixed temperature rating of the detector. If the fixed temperature is exceeded, the center disk of the detector will drop and the detector MUST be replaced.

Apply the heat until the local alarm sounds. Verify that the ISEC-HEAT has triggered the correct zone and that the correct report has been transmitted to central station. Wait a few minutes and reset the fire circuit. Ensure that the system returns to a normal status.

Step 6. Map the ISEC-HEAT Transmitter
Referring to the installation instructions for the Hub and keypad in use, enter the following:

- The zone to which the transmitter will be mapped.
  Note: This zone must be programmed as a Fire Zone.

- The 6-digit RF identification number / 1 digit checksum number printed on the transmitter (include all numbers and/or letters and leading zeros, if any);

- The transmitter point number ("1").

WARNINGS

- HEAT DETECTORS ARE NOT LIFE SAFETY DEVICES: USE FOR PROPERTY PROTECTION ONLY.

- WHERE LIFE SAFETY IS REQUIRED, SMOKE DETECTORS MUST ALSO BE USED.

- BATTERY BACK-UP: HEAT DETECTORS SHOULD BE ELECTRONICALLY SUPERVISED WITH BATTERY BACKUP AT THE HUB.

- THE RATE-OF-RISE MECHANISM MAY BE SUBJECT TO REDUCED SENSITIVITY OVER TIME. ANNUAL TESTING OF THE RATE-OF-RISE OPERATION IS RECOMMENDED.

- REFER TO NFPA STANDARD 72 FOR APPLICATION REQUIREMENTS, TESTING AND MAINTENANCE.

- DO NOT PAINT THE ISEC-HEAT.

- A TAMPER ZONE TROUBLE WILL RESULT WHEN THE BATTERIES ARE REPLACED.

- See page 49 for full programming information

Sensor Configuration

MOUNTING TEMPLATE

ENSURE THIS BOX IS 1 INCH X 1 INCH
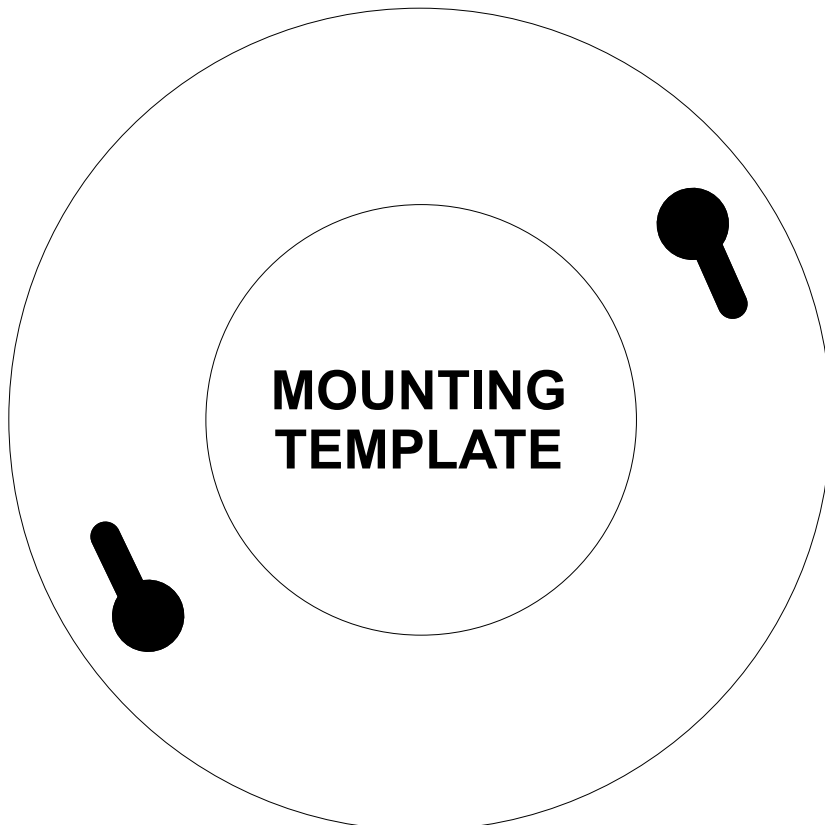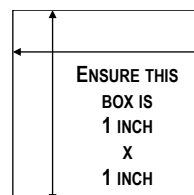
# 8. Install Carbon Monoxide Sensors

OVERVIEW

The ISEC-CARBON MON is a high-quality carbon monoxide (CO) detector with built-in supervised digitally-coded radio transmitter. Up to 80 CO detectors can be added to the system.

During normal operation, when unit is in standby mode and is within proper sensitivity limits, the green LED on the ISEC-CARBON MON flashes once every 10 seconds. When CO is detected, the ISEC-CARBON MON sounds a local alarm and the transmitter sends an alarm signal to the supervised receiver. The alarm signal is repeated as long as CO is still present. A restore report is sent when the CO detection chamber clears. Supervision status reports are sent from the ISEC-CARBON MON every minute.

Note: Coding switches are not required or used in the ISEC-CARBON MON; each transmitter is assigned a unique identification code number at the factory.

The ISEC-CARBON MON must be installed in accordance with the National Fire Protection Association (NFPA) Standard 720.

INSTALLATION STEPS

1. **Remove the Mounting Plate.** Remove the ISEC-CARBON MON Mounting Plate by turning the Plate counter-clockwise and pulling it up.

Twist the Mounting Plate to unlock

Lift to remove the Mounting Plate
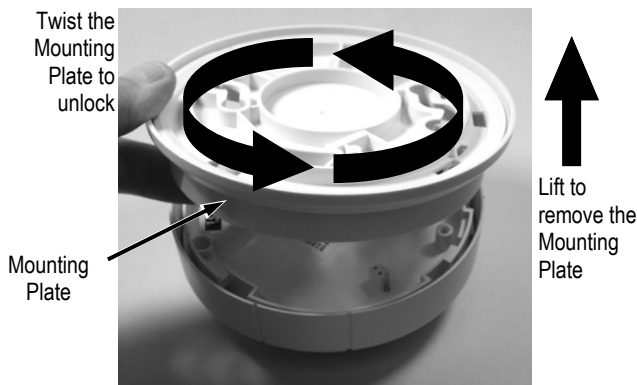
Mounting Plate

2. **Identify components.** Examine the ISEC-CARBON MON to identify the component locations. Take note of the "Tamper Lock" tab located on the inside of the Mounting Plate (see image below). Optionally, cut this "Tamper Lock" tab to prevent the removal of the ISEC-CARBON MON from the Mounting Plate without using a tool (such as a screwdriver).

"Tamper Lock" (Optional): Cut tab to prevent removal without a tool
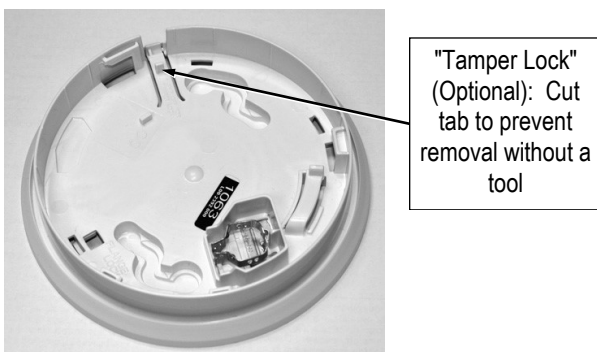
3. **Install battery.** Place one 3-volt lithium *Duracell*, *Panasonic*, *Varta* or *Sanyo* type "123A" battery in its compartment, observing correct polarity. Enroll the ISEC-CARBON MON into the Hub before mounting. During power up and status initialization, both the green and red LED's blink four times every 10 seconds in unison. Then look for the "standby" indication where the green LED blinks once every 10 seconds.

(−)

3-VOLT BATTERY COMPARTMENT

(+)
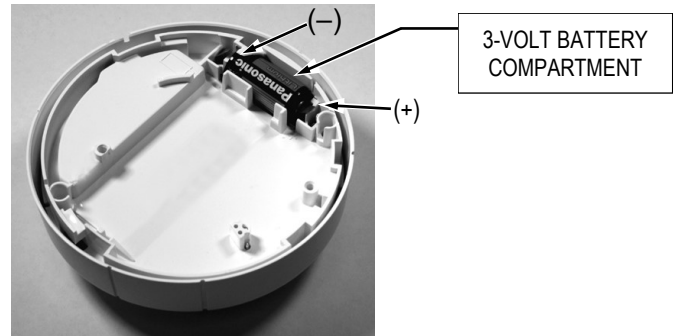
Low Battery Warning

The CO detector and transmitter are powered by one 3-volt lithium battery (supplied) that can power the unit for at least one year. If battery voltage drops below normal, the red LED will flash every 45 seconds and a low battery report will be sent to the Hub. If the voltage is still below normal after 7 days, the detector sounder will chirp. The battery should be replaced immediately. Operation of the detector cannot be assured after an additional 7 days of low-battery indication. A low-battery report is sent to the receiver with any status transmission.

NOTE: Temperature and humidity extremes may reduce the life of the battery.

Use Only Battery Specified In Marking. Use of A Different Battery May Have A Detrimental Effect On Detector Operation.

4. **Pick CO-detector location.** The ISEC-CARBON MON must be installed in accordance with the National Fire Protection Association (NFPA) Standard 720. Refer to figures in "**Recommended Installation Locations**" (on page 27) and all text on pages 27 through 29.

Note: *Mounting the ISEC-CARBON MON on foil-backed wallpaper is NOT recommended because the radio range will be reduced.*
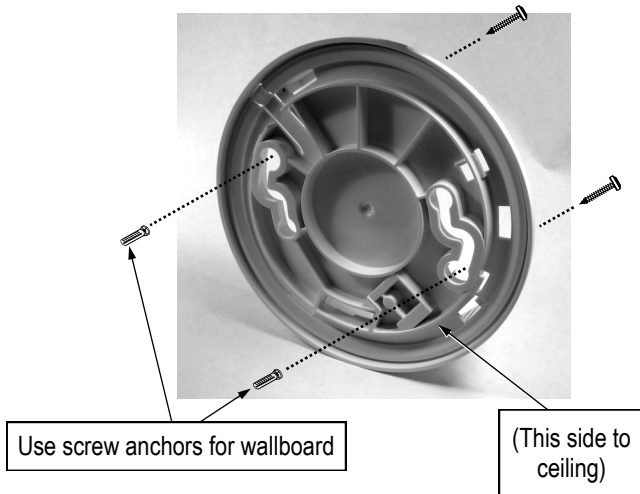

DINING ROOM | KITCHEN | BEDROOM | BEDROOM

LIVING ROOM | BEDROOM
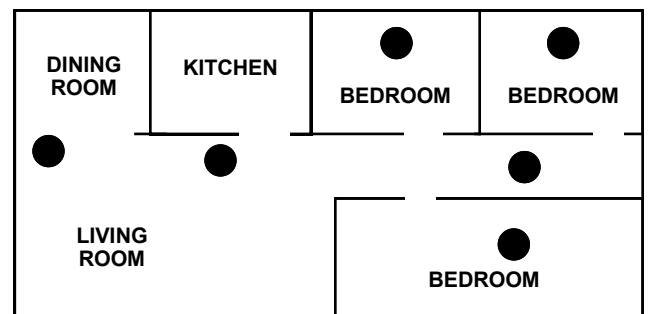
5. **Install mounting plate.** Use two screws and hardware appropriate for the mounting surface to secure the

mounting plate to the wall or ceiling. **NOTE:** Do not install on removable surfaces such as ceiling tiles.


Use screw anchors for wallboard

(This side to ceiling)

6. **Map the ISEC-CARBON MON Transmitter.** Referring to the installation instructions for the Hub and keypad in use, enter the following:

- the zone to which the transmitter will be mapped
- the 6-digit RF identification number / 1-digit checksum number printed on the transmitter (include all numbers and/or letters and leading zeros, if any)
- the transmitter point number "1"

7. **Attach the ISEC-CARBON MON to Mounting Plate.** Match up alignment tabs on the detector and the Mounting Plate. Turn detector clockwise until it locks into place (see next image).

Match up alignment tabs

Twist the detector clockwise to lock to the Mounting Plate
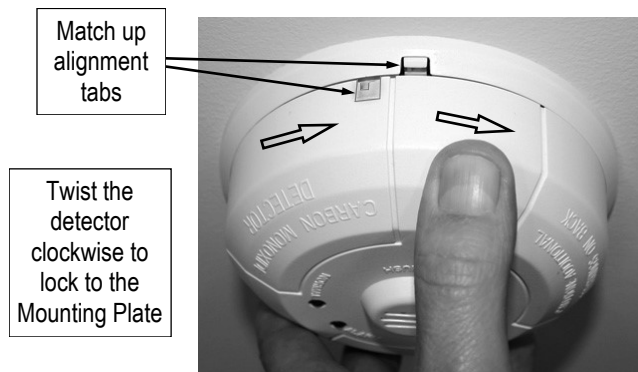
8. **Test system weekly with unit mounted** and by pressing the **TEST** button (shown in next image). Perform the **FUNCTIONAL GAS TEST** annually (if required by the AHJ) as described in the next section.

CO Entry Ports

Test button
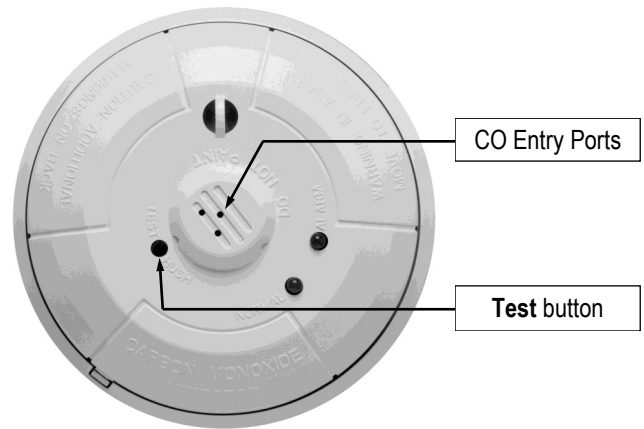
FUNCTIONAL GAS TEST MODE
Note: Check with local codes and the AHJ to determine if a functional gas test is desired for an installation. If the system is monitored, notify central station of the impending test. A canned CO testing agent may be used to verify the ability of the ISEC-CARBON MON to sense CO by utilizing the Functional Gas Test Mode. To perform the functional gas test, follow these steps:

a. With a small screwdriver, depress and hold the recessed "**TEST**" button for approximately 2 seconds. The detector will temporarily go into alarm and the red LED will illuminate.
b. Within a few seconds the green LED will start to blink rapidly indicating the detector is in a speed up, functional test mode, awaiting gas entry.
c. Spray a very small amount of Solo brand C6 canned CO into one of the 3 small gas entry holes located on the top center of the detector.
d. Upon successful gas entry and if functioning properly, the detector will alarm by sounding in a Temporal-4 pattern with the red LED blinking. An alarm signal will be sent to the Hub, providing verification of the alarm signal.
e. The alarm condition at the detector will time out in 20 to 60 seconds or when the CO gas has cleared.
f. If gas entry is unsuccessful, the test will time out after 27 seconds.

VISIBLE & AUDIBLE INDICATIONS
(In priority order, starting with highest priority)

- Red and green LED blink every 10 seconds for a total of 4 times (no sound produced) = "Power On Reset" condition.
- Sounder and red LED on once a second = **Carbon Monoxide Alarm!** The Hub produces the standard CO Alarm repeating cadence of "4 beeps, 5-second pause, 4 beeps", repeatedly, until the CO condition is cleared. **To Temporarily Silence:** Press and hold the recessed **TEST / HUSH** button for 10 seconds to temporarily silence the unit for 5 minutes.
- Red LED blinks once every 5 seconds; sounder chirp every 45 seconds = **CO Trouble / Calibration.** (**Note:** Transmits a trouble to the Hub).

- Green LED blinks once every 10 seconds = **Tamper condition**. (**Note:** Transmits a trouble to the Hub).
- Red LED blinks once every 10 seconds; sounder chirp every 45 seconds = **End of Life Warning**. The unit has reached the end of its operational life and will no longer detect the presence of carbon monoxide. The unit can NOT be made operational and therefore MUST be replaced. (**Note:** Transmits a trouble to the Hub).
- Red LED blinks once every 45 seconds; chirps after 7 days = **Low Battery**. Chirp Silence: Press recessed **TEST / HUSH** button to temporarily disable the Low Battery Chirp ("sleep") for 12 hours.
- Green LED blinks every 10 seconds (sounder is silent) = **Normal** standby operation.

CO ALARM PROCEDURE
When a carbon monoxide alarm occurs:
1. Immediately evacuate the premises and move to fresh air, either outdoors or by an open door or window.
2. Call emergency services (Fire Department or 911)
3. Ensure that all persons previously within the premises are accounted for. **Do not re-enter the premises until authorized by emergency service responders.**
4. If the CO alarm reactivates, repeat steps 1-3 and call a qualified service technician to investigate all possible sources of carbon monoxide, such as from fuel burning appliances and other equipment, and repair all problems found immediately. Note any equipment not inspected and refer to the equipment manufacturer's documentation, or contact the manufacturer's directly for more information about how the equipment can leak carbon monoxide into the premises. Ensure all motor vehicles are not, and have not been, operating in an attached garage, operating adjacent to the premises, or operating next to ventilation fresh air intake vents. Never restart the source of a CO problem until it has been corrected.
5. If the CO condition that caused the alarm continues, the alarm will reactivate. Never ignore the sound of the alarm! If the CO alarm resounds, the detector is sensing levels of CO that can quickly become a dangerous situation. **EVACUATE IMMEDIATELY** (repeat steps 1-4).

MAINTENANCE
To keep your detector in functioning correctly, you must:
- Test the unit once a week by pressing the Test/Hush button (insert a non-conductive pointed object, such as a toothpick)
- Carefully vacuum the unit cover once a month to remove accumulated dust
- Never use detergents or solvents to clean the unit. Chemicals can permanently damage or temporarily contaminate the sensor
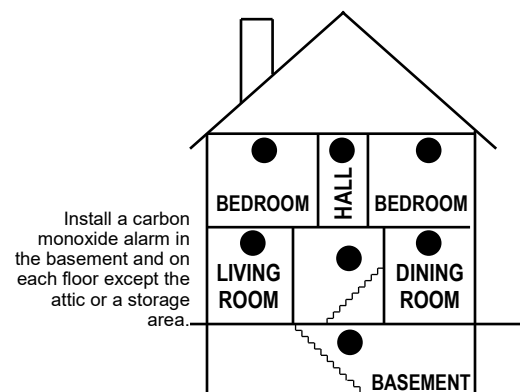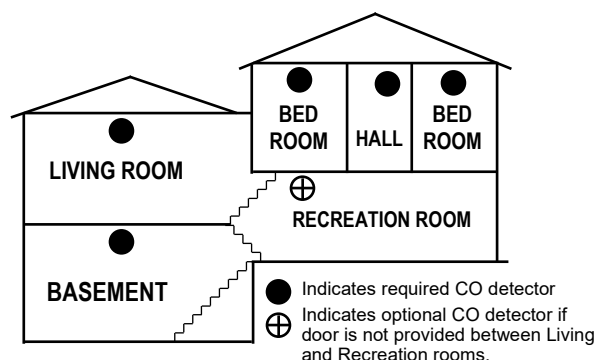
RECOMMENDED INSTALLATION LOCATIONS
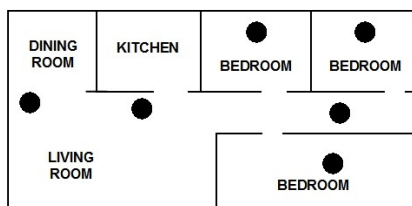
A CO detector should be located in every sleeping area, in each of the other family living units, but just outside the kitchen.
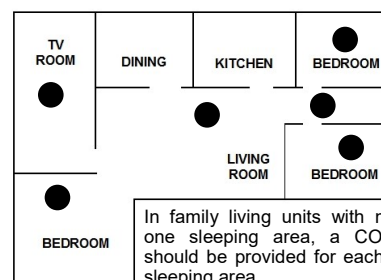
In family living units with more than one sleeping area, a CO detector should be provided for each separate sleeping area.

● Indicates required CO detector
⊕ Indicates optional CO detector if door is not provided between Living and Recreation rooms.

Install a carbon monoxide alarm in the basement and on each floor except the attic or a storage area.

- Do not spray air fresheners, hair spray, paint or other aerosols near the unit
- Do not paint the unit, as paint will seal the vents and interfere with proper sensor operation

Move the CO detector to a safe and remote location to prevent damage or contamination prior to performing any of the following:

- Staining or stripping floors or furniture, painting or wallpapering
- Using aerosols or adhesives

Note: A Tamper / Trouble signal will be sent to the Hub when the detector is removed from the base. **IMPORTANT:** Reinstall the CO detector as soon as possible to assure continuous protection.

The following lists possible substances that at some levels can damage the sensor or cause false alarms:

- Ethylene, ethanol, alcohol, iso-propanol, benzene, toluene, ethyl acetate, hydrogen, hydrogen sulfide and sulfur dioxide
- Most aerosol sprays, alcohol based products, paint, thinners, solvents, adhesives, hair spray, after shave, perfume, auto exhaust, cleaning agents, etc.

LOCATIONS TO AVOID
IMPORTANT: Improper mounting locations can damage the electronic components within the detector. To avoid damage, to provide optimum performance and to avoid false alarms, proceed as follows:

- Do NOT install in kitchens, garages, furnace rooms or in areas that may expose the sensor to substances that could damage or contaminate it
- Do NOT install in areas where the temperature is colder than 32°F (0°C) or hotter than 122°F (49°C) such as crawl spaces, attics, porches and garages
- Do NOT install within 5 feet of heating or cooking appliances. (we recommend 15 feet to prevent false alarms)
- Do NOT install near vents, flues, chimneys or any forced/unforced air ventilation openings
- Do NOT install near ceiling fans, doors, windows or areas directly exposed to the weather
- Do NOT install in dead air spaces, such as peaks of vaulted ceilings or gabled roofs, where CO may not reach the sensor in time to provide early warning
- Do NOT install this unit near deep-cell large batteries, as these batteries may have emissions that can cause the detector to perform at less than optimum performance
- Do NOT obstruct the vents located on the unit
- Do not mount the unit where drapes, furniture or other objects can block the flow of air to the detector

GENERAL WARNINGS
- Read these installation instructions in their entirety before installing the ISEC-CARBON MON detector. Leave these instructions with the owner/user of the detector.

- The ISEC-CARBON MON is intended for use in indoor locations only
- Failure to properly install, test and/or maintain the ISEC-CARBON MON may cause it to fail, potentially resulting in loss of life
- Installation of this detector is not a substitute for proper installation, use, and maintenance of fossil fuel-burning appliances, including appropriate ventilation and exhaust systems
- To reduce the risk of carbon monoxide poisoning, test detector operation weekly
- Do not paint the detector

Carbon monoxide detectors are NOT smoke detectors. A carbon monoxide detector is NOT a substitute for smoke detectors. This carbon monoxide detector is specifically designed to detect the presence of carbon monoxide gas and is NOT designed nor intended to detect smoke, fire or any other gas. In addition, this detector will only indicate the presence of carbon monoxide *at the sensor*; carbon monoxide gas may be present within other areas of the premises.

CARBON MONOXIDE POISONING
The following are some of the possible carbon monoxide poisoning symptoms that should be presented to and discussed with all occupants of the protected premises:

- **Mild exposure**: "Flu-like" symptoms, including but not limited to slight headache, nausea, vomiting, fatigue, runny nose and sore eyes
- **Medium exposure**: Severe throbbing headache, dizziness, drowsiness, confusion, fast heart rate
- **Extreme exposure**: Loss of consciousness, brain damage, convulsions, cardio-respiratory failure, death

Often cases of reported CO poisoning indicate that while victims are aware they are unwell, they become so disorientated that they are unable to save themselves by either exiting the building or calling for assistance. Young children and pets may be the first affected.

SOURCES OF CARBON MONOXIDE
Potential carbon monoxide sources include fuel-fired appliances (space heaters, furnaces, water heaters, ranges, ovens, clothes dryers); other sources (kerosene-burning stove or heater, or gas log fireplace); or internal combustion engines. In addition, excessive exhaust spillage or reverse venting of fuel-burning appliances can produce dangerous transient levels of CO. This can be caused by external conditions, such as:

- Wind direction, velocity, or a combination of both, including high gusts of wind or insufficient draft in vent pipes
- Temperature inversions that can trap exhaust gases near the ground
- Negative pressure differential resulting from the use of exhaust fans

- Simultaneous operation of several fuel-burning appliances competing for limited internal air
- Vent pipe connections vibrating loose from dryers, furnaces, or water heaters
- Obstructions in vent pipes or unconventional vent pipe designs that can amplify the above situations
- Poorly designed or maintained chimneys and/or vents
- Extended operation of unvented fossil fuel-burning devices (range, oven, fireplace, etc.)
- Idling cars in an open or closed attached garage, or near the premises

GENERAL LIMITATIONS
OF CARBON MONOXIDE DETECTORS

This detector is designed to protect individuals from the severe effects of CO exposure. It will not fully safeguard individuals with specific medical conditions. If in doubt, consult a medical practitioner.

If the unit is in trouble or has arrived at the end of its life, it may not sense CO and cannot be relied upon to monitor CO levels. Replace the CO detector by the date specified on the unit or when the detector indicates an end of life condition, whichever comes first. CO detectors are not a substitute for designated life safety devices. Napco does not warrant or imply in any way that a CO detector will protect lives from CO poisoning. These detectors should only be considered as an integral part of a comprehensive safety program.

SPECIFICATIONS
Electrical Ratings

|	
Input Power:	Powered by a 3-volt lithium battery. Use one 3-volt lithium Duracell DL123A, Varta CR123A, Panasonic CR123A or Sanyo CR123A.
Dimensions (W×L×D)	5-3/8 x 5-3/8 x 2-1/8" (13.7 x 13.7 x 5.4cm)
Operating Environment	
Temperature	32°F to 122°F (0°C to 49°C)
Relative humidity	15% - 95% RH
Regulatory Information	
Manufacturer:	Napco Security Technologies, Inc. 333 Bayview Avenue, Amityville, NY 11701
Environmental class	Indoor, in accordance with the Operating Environment specifications.
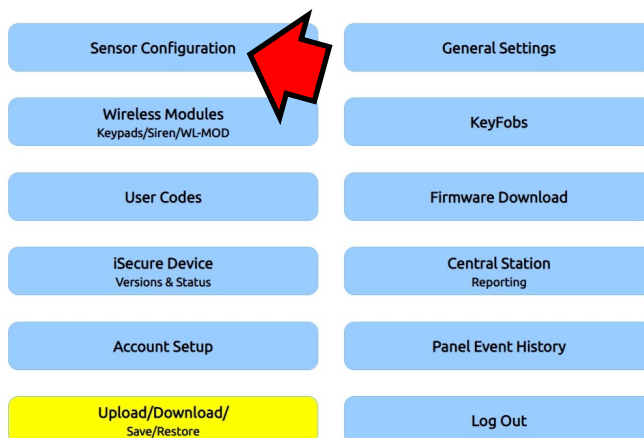
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. **Caution:** Changes or modifications not expressly approved by manufacturer could void the user's authority to operate the equipment.

9. Install Panic Button

GENERAL DESCRIPTION

The ISEC-PANIC Panic is an single function pendant / key-chain transmitter compatible with the NAPCO iSecure security system. The ISEC-PANIC serves as an emergency device for use as a police panic and/or auxiliary emergency transmitter. Two replaceable Energizer 386 1.5V silver oxide cells power the transmitter. A flashing LED signals a low-battery warning. To operate, simply press the button momentarily until the red LED lights. **Note:** When the button is pressed, the ISEC-PANIC will transmit the respective signal to the Central Station, if so programmed. The LED lights while the unit is transmitting. See page 51 for full "**Sensor Configuration**" programming information.

Low-Battery Check: The power cells are checked automatically during any transmission. A low-battery condition causes the LED to turn on for twice the normal time, then start pulsing about once every 1.5 seconds; a low-battery report will be sent to the receiver. Replace batteries every 3 years.

BATTERY REPLACEMENT

1. Remove the screws on the bottom of case and turn over. Lift off the top cover, exposing the circuit boards.
2. *Carefully* lift the top circuit board away from the bottom circuit board **no more than 45 degrees** (see Figures 1 and 2) to allow removal of batteries from the bottom circuit board.
3. Slide the bottom battery out and away from the circuit board. Replace the battery as shown (see Fig. 3 and 4).
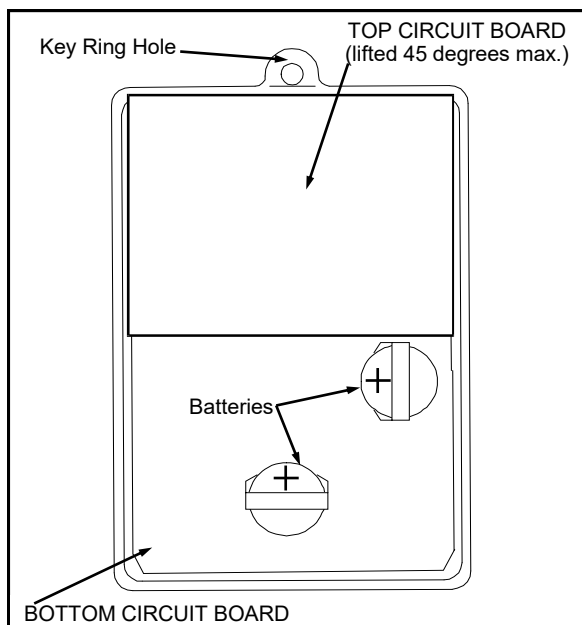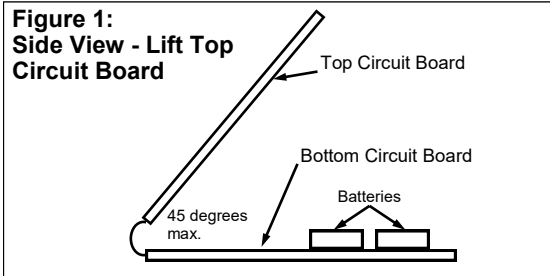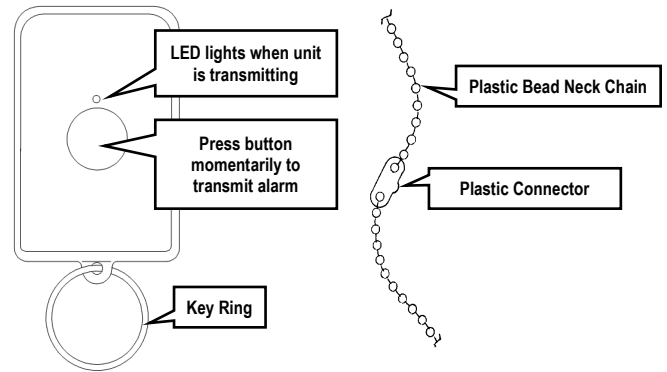4. Replace the top battery by sliding it out to the right. Replace

the battery as shown (see Figures 3 and 4).

5. Carefully press the top circuit board back toward the bottom circuit board. Reassemble the case and slip the neck chain through the eyelet.
6. Test the button to verify its function. **Note:** Inform the Central Station about the test or disable the transmission of panic during the test.

ADJUSTING CHAIN LENGTH

The ISEC-PANIC has a plastic bead neck chain included. To adjust its length, simply disconnect the chain from one end of the plastic connector by removing a plastic bead, use scissors to cut the chain to the desired length, then reconnect the chain by inserting a bead into the connector.
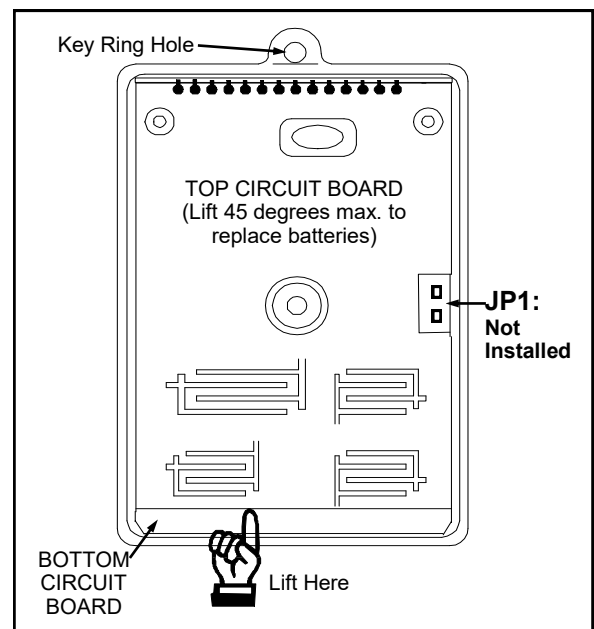

Figure 1:
Side View - Lift Top Circuit Board

Figure 2: Top View of Top Circuit Board

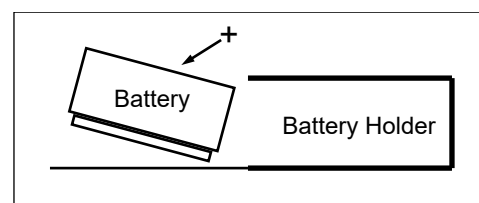**Figure 3: Top View of Bottom Circuit Board for Battery Replacement with Top Circuit Board lifted**

Figure 4: Angle the Battery on Entry

All technical manuals are available in PDF format at tech.napcosecurity.com   ***Napco iSecure Security System***