



Informer™ Wall Mount Series

Models I-HIOW and I-UIOW
Tone Alert Receiver



You must program the Informer with I-SW software version 3.6 or greater.

Installation and Operation Manual

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Limited Warranty

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This warranty does not cover travel expenses, the cost of specialized equipment for gaining access to the product, or labor charges for removal and re-installation of the product. The Federal Signal Corporation warranty shall not apply to components or accessories that have a separate warranty by the original manufacturer, such as, but not limited to batteries.

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Safety Message

⚠ WARNING

It is important to follow all instructions shipped with this product. This device is to be installed by trained personnel who are thoroughly familiar with the country electric codes and will follow these guidelines as well as local codes.

Listed below are important safety instructions and precautions you should follow:

Read and Understand

- Read and understand all instructions before installing or operating this product.
- Adhere to all warnings and operating instructions.
- Proper installation, placement, and testing are required to ensure the unit is able to perform as intended. Perform installation, placement, and testing after the installer has read and understood this manual.

Installation Considerations

- Do not use near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, rain, or similar environments.
- Mount to a wall only as specified in this manual.
- Place away from heat sources; such as, radiators, heat registers, stoves, or other accessories that produce heat.
- Do not exceed maximum accessory relay output rating of 30 VDC, 5 Amps.
- Locate an outdoor antenna away from power lines.
- If an outside antenna is connected to the receiver, make sure the antenna system is grounded in order to provide protection against voltage surges and built up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to the antenna-discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

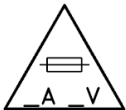
Notices

- Take care so that objects do not fall and liquids are not spilled into the enclosure through openings.
- Keep the Informer at least six inches away from a listener's ears whenever the Informer Power LED is on or blinking. The sound output of the Informer may cause hearing damage if the Informer is activated too close to the user.
- Clean with a non-abrasive cleaner and a damp cloth. Do not apply solvents directly onto the Informer.
- Retain instructions for future reference.
- Service the Informer by qualified service personnel when the following has occurred to the Informer:
 - Objects haven fallen onto, or liquid has been spilled into
 - Does not appear to operate normally
 - Exhibits a marked change in performance
 - Exposed to rain
 - Has been dropped
 - Enclosure is damaged

Servicing

To reduce the risk of electric shock, do not perform any servicing other than what is contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel. Always test the Informer before using after repairs have been made.

Symbol Definition



Indicates to reduce the risk of fire, replace fuse as marked.

General Description

Introduction to the Informer TAR

The Informer Wall Mount Tone Alert Receiver (TAR) is an emergency alerting device available in VHF and UHF bands from 150-170 MHz and 450-470 MHz. It is also capable of decoding multiple formats (such as, single-tone, two-tone, DTMF and optionally EAS or Federal Digital) at the same time. These features enable the Informer to be easily integrated into virtually any new or existing warning system.

The Informer is a robust radio receiver with a loud speaker output designed specifically for warning applications. You can mount the unit on the wall or recess it in the wall. The Informer comes with an antenna to mount on the front of the unit or in another location, such as outside, by using the internal BNC connector and using the punchouts for access into the unit. The Informer has a built-in battery and charger to provide reliable operation even in the event of an AC power failure. The optional LP1 strobe is powered through the internal transformer, which requires AC power.

You can program the Informer with up to four separate warning tones plus a channel monitor function for live public address (PA) announcements. Two programmable relay outputs and a 600 Ohm audio output are also available. You can use these outputs to control other equipment; such as, pre-wired LP1 strobe light for warning the hearing impaired and to tie into external PA systems respectively.

You may program up to four separate RF channels into the Informer. The channels are easily selected from the built in membrane keypad. Each of the RF frequencies must be within the allowable frequency spread for the RF band being used. Refer to the “Specification” section on page 7.

The Informer is completely programmable through a built-in RS232 serial port from an easy to use Windows[®]-based software program. All data is stored in non-volatile memory. You can update application software and user specific configuration data through the serial port.

The Informer series receivers meet all requirements defined by the Federal Emergency Management Agency (FEMA) for the CSEPP programs.

Features

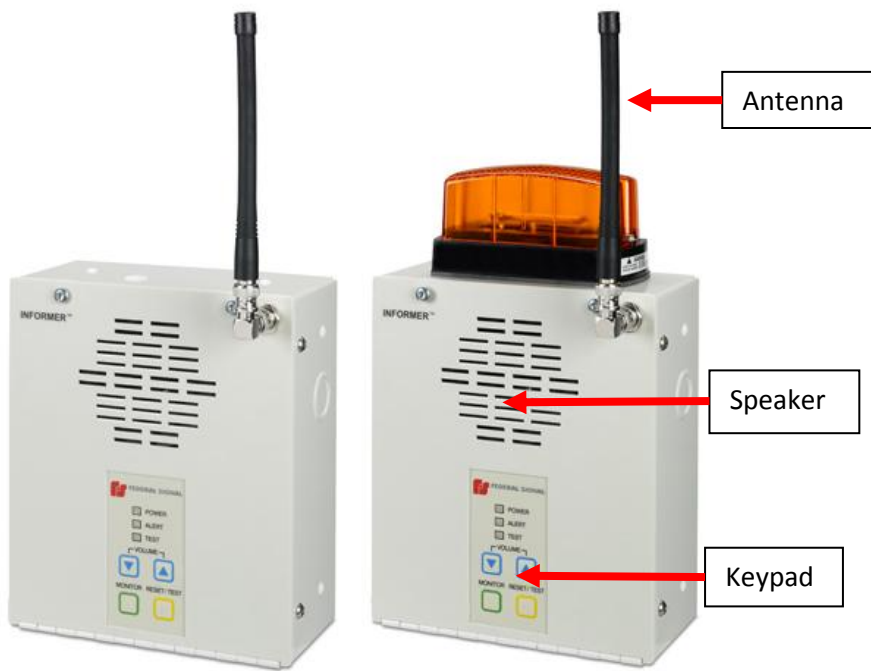
- Available in two (2) frequencies bands: VHF 150-170 MHz and UHF 450-470 MHz
- Long life rechargeable battery with built-in charger (Only units built after May 2015 are equipped with a battery.)
- Wide temperature operating range
- Excellent RF sensitivity and selectivity
- Fully programmable RF—no tuning required
- Clean, low distortion of recovered audio
- Loud +80 dBA output at 10 feet
- Signal to Noise based squelch circuit, does not open receiver in high radio noise environments; that is, near computers, etc.
- Programmable for wide or narrow band
- Programmable RF, Single Tone, Two-Tone, DTMF, CTCSS, and CDCSS (DPL) decoding
- Re-programmable over RS232 port
- Volume control, Monitor, and Reset buttons with diagnostic LEDs
- Ramp-up tones for Warble, Steady, Beep, and Hi-Lo (with firmware 2.3.0.1 or later)

Optional Features

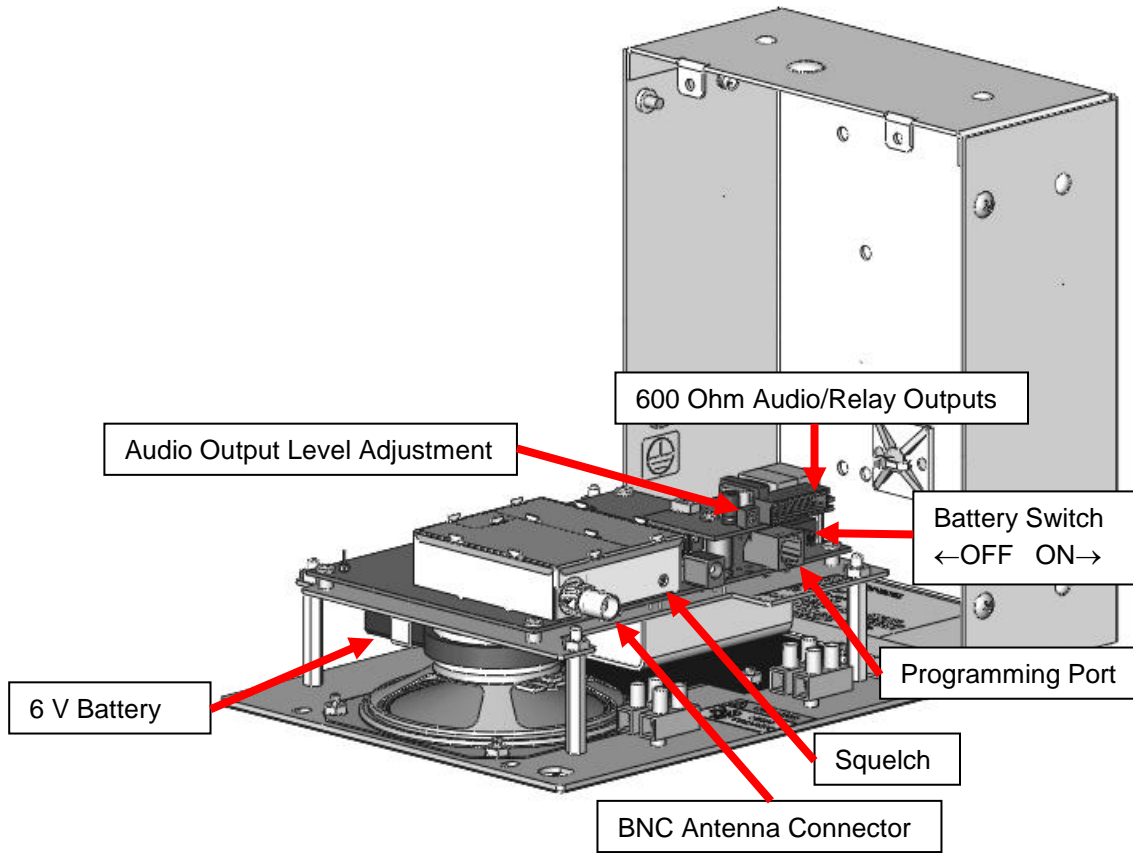
- Programmable MSK decoder compatible with the Federal's Commander Software.
- Programmable EAS decoder for decoding NOAA radio SAME code alerts.
- 600 Ohm audio output and two (2) SPDT relay outputs.
- Windows XP/Vista/7[®] based programming software.
- Ability to top mount Model LP1-012 12 V mini-strobe when used in Wall Mount configuration. Strobe does not function during battery backup mode.

NOTE: The MSK and EAS decoders are not available simultaneously in the same unit. You can use all other options together.

Informer Wall Mount Main Components



Input/Output Definitions



Specifications

Table 1 Electrical

Antenna Impedance	50 Ohms
Antenna Type	Rubber duck with swivel BNC connector
Sensitivity – 12 dB SINAD	≤ .35 μ for 12 dB SINAD per EIA-603, part 4.1.4
Input	115 to 230 VAC
Operating Current	<350 mA. Max.
Battery Capacity	Internal sealed lead-acid, capable of running for six (6) hours in standby mode with fifteen (15) minutes of each hour generating siren beep audio at rated audio output. (Based on Pulsed Tone audio.) Low voltage cutoff set to 5.38 VDC +/- 0.1 VDC.
Hum and Noise	-37 dB when unsquelched, -57 dB squelched relative to full quieting signal with 1 kHz tone at 60% rated system deviation at rated audio out per EIA-603, part 4.1.11
Audio Output	1 Watt into 8 Ohms
Audio Distortion	< 5% at 80 dB output, with 1 kHz tone
Audio Sensitivity	≤ 30% of rated system deviation, minimum deviation to produce 80 dB audio output level with volume control at full per EIA-603, part 4.1.1.7

Table 2 Bandwidth Receivers 25–30 kHz

Frequency Range (MHz)	150 – 170	450 – 470
Intermodulation Rejection per EIA-603, part 4.1.9	≥ -75	≥ -70
Adjacent Channel Selectivity per EIA-603, part 4.1.6	≥ -75	≥ -70
Spurious Response and Image Rejection (dBm) per EIA-603, part 4.1.8	≥ -80	≥ -75
Frequency spread allowable without re-tuning (MHz)	150-170	450-470

Table 3 Bandwidth Receivers 12.5 kHz

Frequency Range (MHz)	150 – 170	450 – 470
Intermodulation Rejection per EIA-603, part 4.1.9	≥ -75	≥ -70
Adjacent Channel Selectivity per EIA-603, part 4.1.6	≥ -70	≥ -65
Spurious Response and Image Rejection (dBm) per EIA-603, part 4.1.8	≥ -75	≥ -70
Frequency spread allowable without re-tuning (MHz)	150 – 170	450 – 470

Specifications

Table 4 Acoustic

Acoustic Output	Message Audio variable from 50 dBA to 80 dBA at 10 feet from the speaker on axis. User cannot disable Alert or message audio.
Alert Beep Audio	<ul style="list-style-type: none"> • Steady Tone = 1000 Hz • Pulsing Tone = 1000 Hz pulsed 100 ms ON, 100 ms OFF • Alternating Tone (Hi-Lo) = Alternating between 1000 Hz and 500 Hz tones. Each pulse lasts 100 ms. • Sweeping Tone (Warble) = 500 Hz rapidly ramped to 1000 Hz <p>Overall lengths are programmable. Alert Beep Audio fixed at 80 dBA min. (not adjustable) at 10 feet from speaker. Firmware 2.3.0.1 or later provides ramp-up of tones.</p>

Table 5 Dual Relay and 600 Ohm Audio

Specifications	Two SPDT Relay Outputs, 5 Amps at 30 VDC
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You can program relay outputs to cycle on and off, or come on continuously with the on-time, off-time, and total-time being programmable.

Once activated, you can program the relay outputs to be reset manually, reset after a programmable number of seconds or reset after a programmable number seconds after the carrier drops.

The 600 Ohm audio output responds as the speaker does, coming on with the speaker and being reset or shutting off with the speaker. Its output level is adjustable from 0 to 2.5 V_{p-p} into 600 Ohms with 1 kHz tone at 60% rated system deviation.

Table 6 Signaling Formats

Number of codes	Up to 6 programmable activation codes maximum
Two-Tone Sequential and Single Tone	300 Hz - 3000 Hz for 25 / 30 kHz receivers Tolerance +/-1.5% Minimum tone spacing = 5% Minimum "A" tone length = .5 sec Minimum "B" tone length = .25 sec 8 second maximum for all tones
Decode Sensitivity DTMF	≤ 20 dB SINAD 1 – 12 digits maximum Minimum character length = 50 ms (35 ms as special) Characters plus inter-character spacing not to exceed 1000 ms
Decode Sensitivity with Optional MSK Decoder	≤ 20 dB SINAD 1200,N,8,1, Synchronous 1200 Hz Mark tone, 1800 Hz Space tone

EAS Decode Sensitivity with Optional EAS/SAME Decoder	<p><= 20 dB SINAD 520.83 (6250/12) bits per second 2083.3 Hz Mark tone 1562.5 Hz Space tone, no Start, Stop, or Parity bits 7 bit ASCII, + 8th null bit (either 1 or 0), LSB sent first</p>
CTCSS/CDCSS (PL) Decode Sensitivity	<p><= 12 dB SINAD</p> <ul style="list-style-type: none"> • You can program a different PL code for each RF frequency. • Decodes with Two-Tone codes >= 400 Hz only • Tone Frequency Range 36.6 to 254.1 Hz • Tone Accuracy > .05 Hz • Tone Decode Bandwidth +/- 1.1% • Digital, Golay (23,12) 23-bit digital word • Digital Data Rate 134.4 Hz nominal • Decode Turn on Time < 250 ms • Decode Turn off Time < 1.2 sec • Number of codes 60 — Tone, 83 Digital

Table 7 Environmental

Temp Range	-30 to +60°C
Humidity Range	0 to 98%, non-condensing

Table 8 Physical

Size	8.3 inches x 7.0 inches x 3.3 inches (H x W x D)
Weight	3.2 lbs.
Color	Off-White
Material	Aluminum

EMI / RFI	Complies with FCC Title 47, Part 15
Agency Compliance	Complies with UL 60065 and C22.2 No. 60065

Installation Instructions

▲ WARNING

Read and adhere to all safety warnings of this manual before installing the Informer.

To prevent injury, this apparatus must be securely attached to the wall in accordance with the installation instructions.

Determine a Suitable Location

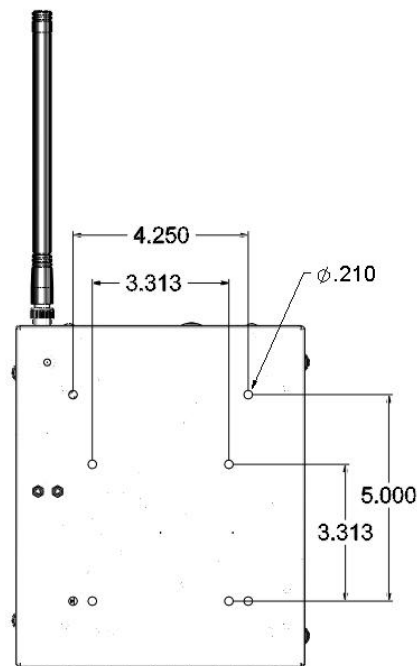
When choosing a location for the Informer consider the following criteria:

1. Place as far as possible from electrically noisy electronic devices to avoid interference. Examples of noisy devices may include the following: microwave ovens, motor driven devices, light ballasts, and electrical switching devices.
2. Conductive building materials can block radio waves from reaching the Informer. In some areas, you may require a larger antenna that provides more signal. You can monitor radio reception by holding down the MONITOR button until audio is heard from the speaker (if the monitor function was programmed into the Informer). Monitor the clarity of speech to ensure it is clear and intelligible and does not cut in and out. Activate the unit from the Informer control station to verify it is programmed correctly and is receiving the control signals.
3. Position to keep the unit at least six inches away from the listener's ears to avoid potential hearing damage.
4. Place in an area where you can hear the speaker when the unit is activated. You can check the level of the warning tone by holding down the MONITOR and RESET/TEST buttons together until you can hear the Alert beeps. If the coverage area is large, you may require multiple Informers or external amplifiers and speakers to provide adequate warning.
5. Do not use near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, rain or similar environments.
6. Place where it will not be inadvertently covered or moved. A permanent wall mounting is recommended after you have found a suitable location.

Wall Mounting

Wall mounting is the preferred mounting method for the Informer. Before mounting the unit, determine a suitable location considering the criteria listed previously. The Informer has eight holes, two sets of four, located on the back of the unit that accepts #8 screws. Mounting location determines which set of four holes are used. Exterior wiring can enter the Informer through any of the unit's five knockouts: two on back, one on the bottom, and one on each side of the unit. Place the mounting screws horizontally level, approximately six (6) inches above eye level and four (4) inches apart on center. Ensure the screws are placed into material that can adequately support the weight of the Informer. Use #8 wall anchors when mounting to drywall. Ensure that the screws are tightened sufficiently to securely fasten the Informer against the wall.

Figure 1 Rear View – Hole Measurements



Mount the local rubber antenna vertically on the front of the Informer so that the antenna is pointed toward the ceiling. If you require an external antenna, have it installed by a qualified electrician in accordance with local and national electrical codes.

Recessed Mounting

Before mounting the Informer, determine a suitable location considering the criteria listed in the “Determine a Suitable Location” section. The Informer has four holes for recessed mounting, two sets of two, located on the sides of the unit that accepts #10 screws. Mounting location determines which set of holes are used. Exterior wiring can enter the Informer through any of the unit’s five knockouts: two on the back, one on the bottom, and one on each side of the unit. Place the mounting screws horizontally level, approximately six (6) inches above eye level and four (4) inches apart on center. Ensure the screws are placed into material that can adequately support the weight of the Informer. Use #8 wall anchors when mounting to drywall. Ensure that the screws are tightened sufficiently to securely fasten the Informer against the wall.

Figure 2 Side View – Hole Measurements



1. Cut a hole that is 8.25 inches x 7.25 inches x 3 inches (H x W x D), which is slightly larger than the Informer-IP base and next to a wall stud.
2. Attach the face bracket to the sides of the unit using the four 10-32 screws included.
3. Slide the Informer into the wall and from the inside of the unit mark the side hole locations on the wall stud.
4. Remove the unit and drill the two holes for #10 screws.
5. Place the mounting screws horizontally level.

NOTE: Ensure the screws are placed into material that can adequately support the weight of the Informer and that the screws are tightened sufficiently to securely fasten the unit to the stud.

6. Mount the local rubber antenna vertically on the front of the Informer so that the antenna is pointed toward the ceiling. If you require an external antenna, have it installed by a qualified electrician in accordance with local and national electrical codes.

Input/Output Connections

⚠ WARNING

Do not exceed the electrical ratings defined in the specifications for the Input/Output option.

The Informer has a 600 Ohm balanced audio output and two SPDT relay outputs. A removable eight (8) position connector is located on the inside of the Informer for making electrical connections. The connector accepts five (5) mm (3/16 inch) stripped wire, 18 -26 AWG. Refer to the “Input/Output Definitions” section for location of parts.

Make electrical connections to the Input/Output connector as follows:

Table 9 Audio/Relay Output – Input/Output Connections

PIN	DESCRIPTION
1	Audio Output
2	Audio Output
3	Relay 1 N.O. Contact
4	Relay 1 Common
5	Relay 1 N.C. Contact
6	Relay 2 N.O. Contact (used by Strobe)
7	Relay 2 Common (used by Strobe)
8	Relay 2 N.C. Contact

Wiring the Device

⚠ WARNING

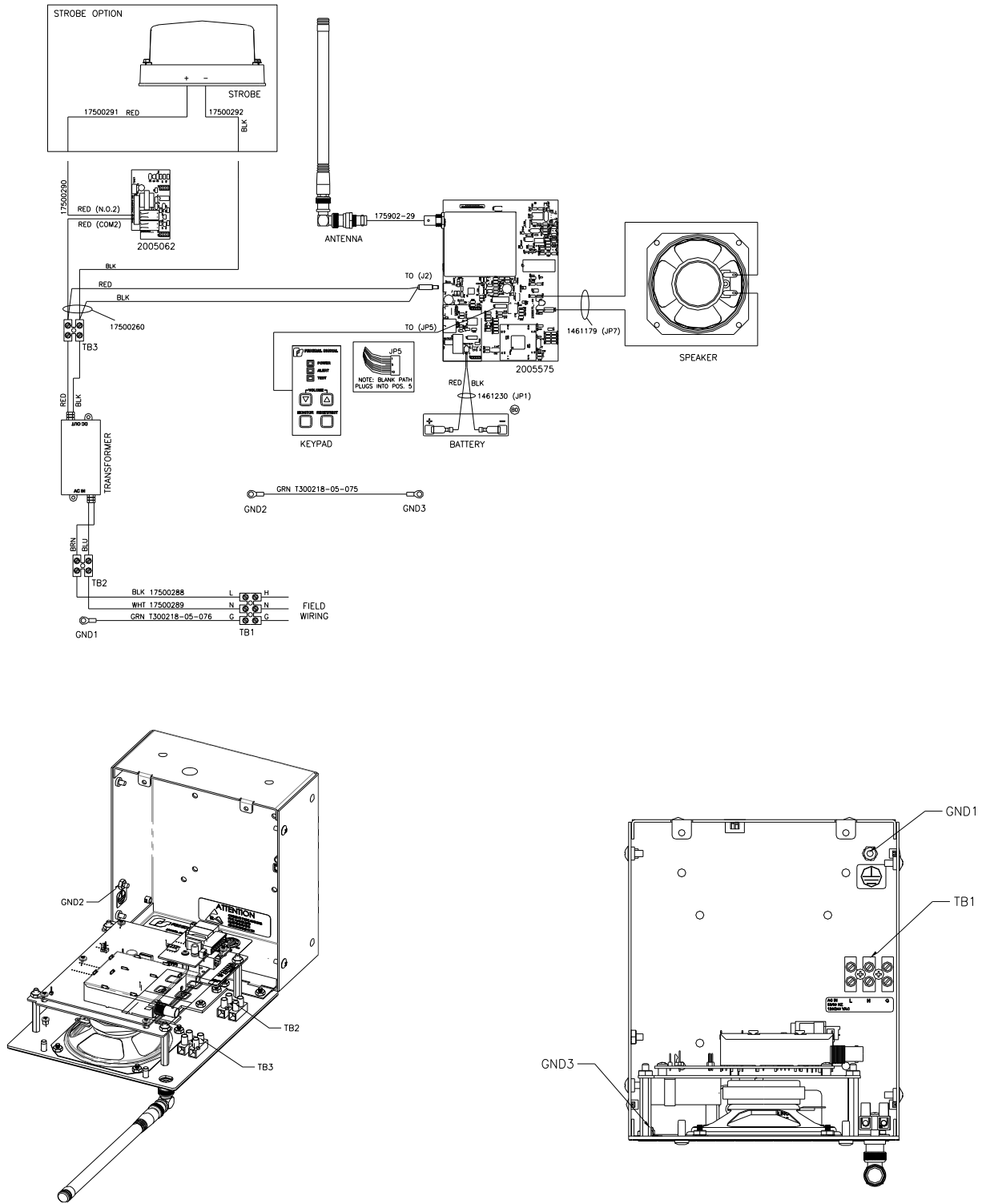
SHOCK HAZARD – To reduce the risk of electric shock, disconnect AC power before connecting or removing AC power wires. Failure to heed this warning may cause serious injury or death.

1. Install this device by a qualified electrician in accordance with local and national electrical codes (NEC/CEC).
2. Make the supply connections directly to the terminal 3-position terminal block located internally on the back wall of the housing. The Informer has a universal input that can be connected to a 115 V line and neutral or two 115 V lines.

Installation Instructions

3. Route the supply wires (10 AWG to 16 AWG) into the housing.
4. Strip a maximum of 0.28 inch (7 mm) of insulation from the ends of the power leads. Coil any excess wire and secure under the terminal block to avoid contact with other wiring and components.
5. Connect the wires to the terminal block by inserting the stripped ends of the wires into the connectors as far as they can travel.
 - Connect the earth ground to the terminal block position G.
 - Connect the line (hot, L1) wire to position L.
 - Connect the neutral or the L2 wire to position N.
6. Tighten the clamping screw. The maximum tightening torque is 7.0 in-lb (0.8 N • m).
7. Connect the earth ground to the terminal block.
8. Optional: If installing an LP1 strobe, do the following:
 - Find the loose wires for the LP1 strobe.
 - Attach the stripped black wire to the LP1 strobe negative (-) terminal.
 - Tighten the clamping screw. The maximum tightening torque is 7.0 in-lb (0.8 N • m).
 - Attach the red wire to the positive (+) terminal.
 - Run the wires thru the rubber gasket and thru the top of the Informer.
 - Attach the LP1 strobe to the top of the Informer using the LP1 supplied hardware.
 - Attach the red and black wires to the connectors inside the Informer.

Figure 3 Internal Wiring for the Informer Wall Mount



The Informer is internally wired.

Operating Instructions

General Information

You must pre-program all the Informer's functions correctly and test before placing into service.

The following sections describe the various features and functions of the Informer. Refer to the *Commander Software Reference Manual* for additional information about configuration, control and status monitoring of the Informer.

Figure 4 Informer Keypad



Power Supply

Your Informer comes wired with a transformer and a sealed valve regulated rechargeable six (6) volt battery for units built after May 2015. The battery requires continuous charge in order to maintain its effectiveness. When the Informer is wired and receiving power, the Power LED displays a steady green light. In the event that external power to the Informer is lost, the green Power LED on the unit begins to flash to indicate the use of battery power.

IMPORTANT: The Informer should not be turned off; therefore, the unit must remain connected to the power supply and the battery switch set to ON to avoid depleting the battery.

LED Indicators

Table 10 LED Indicators

POWER	The green Power LED turns on when power is connected and the device is connected to a Federal Signal enabled network server. The Power LED flashes on for 100 ms when the unit is disconnected from the server.
ALERT	The red Alert LED flashes on and off at a ½ second interval when the Informer receives an alert. The LED is reset when the RESET/TEST button is pressed or a reset command is sent from a control station. The unit may also give a series of loud beeps and open the channel to provide an alert message. IMPORTANT: Immediately respond as instructed to an alert message.
TEST	The yellow Test LED turns on Steady when a Quiet Test function is executed. The LED is reset when RESET/TEST button is pressed or a reset command is received from a control station. The LED flashes on and off at a 1/10 second rate indicating the unit has been reset to factory defaults and requires configuration. The unit does not attempt to connect to a parent server when this LED is flashing. If the Informer detects a failure, the Test LED flashes once per second. If this occurs, contact your local distributor or service center for repair. NOTE: Informers in Test Mode programmed as site 0, automatically perform a system reset every 5 minutes. This is normal behavior.

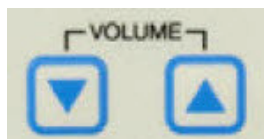
Keypad

The Informer includes a four-button membrane keypad with a tactile feel and three diagnostic LEDs.

Adjusting the Volume

The Informer provides the ability to control the sound volume of tone and voice messages heard over the speaker. You cannot adjust the alert beep volume.

To adjust the volume, press the MONITOR button to listen to the radio channel. Then, press the **VOLUME** ↑ (up arrow) button to increase the sound volume. Press the **VOLUME** ↓ (down arrow) button to decrease the volume.



A beep is heard indicating the current volume level each time the VOLUME buttons are pressed. Holding down either arrow allows you to “scroll” to the highest or lowest volume levels.

If you do not hear any audio when you press the MONITOR button, there may be no radio traffic currently being broadcast. If the MONITOR button is held down for over five seconds, the radio squelch is opened and noise is heard over the speaker if no radio traffic is present. Press the RESET/TEST button to return the Informer to standby mode.

Operating Instructions

The control points can over-ride the local volume controls with remote volume control commands. If no volume control commands are issued from the control points, the local volume level is heard. Control points should always issue Emergency Alerts using a High Power command to ensure all users hear the alert. The user can lower the volume while a tone or voice message is in progress.

Table 11 Informer Buttons

Volume Up Button	Increases volume and beeps at the current volume level for alert messages and for NOAA Weather Radio. Push to change or press and hold to scroll to the highest or lowest volume setting. You cannot turn down the sound completely.
Volume Down Button	Decreases volume and beeps at the current volume level.
MONITOR	The MONITOR button plays radio traffic. To return to standby mode, push the RESET/TEST button. To emit alert tone, hold down both the MONITOR and the RESET/TEST buttons.
RESET/TEST	The RESET/TEST button changes the unit from monitor mode to standby mode. After an alert message, press the RESET/TEST button to turn off the blinking Alert LED.

Receiving an Alert Message

When the Informer receives a valid alert message, the red Alert LED begins to flash and audio is heard over the speaker, unless you programmed the Test LED to turn on for that message. You can program the Informer to sound one of four tones. You can program the unit to automatically enter monitor mode, which enables the user to hear radio traffic over the Informer. You can program the length of the tone.

The Informer receives all properly addressed alert messages sent over the radio whether the unit is in monitor mode or standby mode. Instructional voice messages typically follow the alert beeps to provide instructions for related emergencies in your specific area. Immediately respond as instructed.

The Informer automatically resets and returns to standby mode when the control center sends a CANCEL command. The red Alert and yellow Test LED is also reset. Avoid the use of the CANCEL command after an actual alert, so that the user is able to acknowledge the Alert or Test LED manually.

New activation commands over-ride all previous functions in progress. You cannot decode a new single-tone or a two-tone function while a siren tone is being generated by the Informer.

Receiving a Test Message

If the Informer was programmed with a Test function, the yellow Test LED lights steady when a Test message is received. This light remains on until you press the RESET/TEST button. The Alert LED does not light for any function that is programmed to light the Test LED.

Tone-Alert Radio Failure

In the event of unit failure, the yellow Test LED light flashes once per second and the Informer beeps every 30 seconds. Investigate this failure with the local emergency management control station authorities or the local service center.

Dual Relay and 600 ohm Audio Output

Relay Outputs

The Informer comes with a pair of relay outputs capable of controlling external devices. The outputs are located at pins 3 - 8 of the removable output connector. Refer to the “Input/Output Definitions” section for parts locations.

Do not exceed the voltage and current ratings listed in the specifications section of this manual. When using this option, the relay outputs turn on when the following occurs:

- Until the programmed default timeout occurs
- RESET/TEST button is pressed
- CANCEL or RESET command is received

You can individually configure the relay outputs to open, close, and cycle based on a pre-programmed sequence. Refer to the *Commander Software Reference Manual* for additional information.

NOTE: The relay outputs close for 5-10 ms. during initial power-up.

Relay two has been pre-wired to allow 12 VDC to power an optional LP1 strobe. Power is supplied from the internal power supply to COM2. The strobe is connected to NO2 and to ground. Federal Signal provides cables to wire the LP1 strobe.

600 Ohm Audio Output

The 600-ohm audio output is useful for tying the Informer into existing PA systems or other externally amplified speaker systems. An adjustable balanced audio output is available at pins 1 and 2 of the output connector. The output level is adjustable through a potentiometer located near the input/output connector on the inside of the unit. Refer to the “Input/Output Definitions” section for parts locations.

Monitoring Weather (NOAA Weather Radio and Channel Selection)

You can program the Informer to monitor the local NOAA Weather Radio Channel if you purchased the VHF version. The RF frequencies for NOAA radio are as follows: 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, and 162.550 MHz.

When you use the Informer with NOAA radio, enable the MONITOR button in the software. Pushing the MONITOR button places the Informer into monitor mode and allows you to begin listening to the NOAA Weather Radio Channel. If you program multiple RF channels into the Informer, the unit beeps once for each channel number when you press the MONITOR button. For example, the first time you press the MONITOR button, the Informer beeps once for channel 1. The second time you press the MONITOR button, the Informer beeps twice for channel 2, and so on.

Program the Informer to emit a short tone to alert the user after the Informer receives a valid EAS message. Program the speaker to auto, timed or manual reset to enable a voice announcement to be heard.

To discontinue monitoring NOAA Weather Radio and place the unit in standby mode, press the RESET/TEST button on the Informer. While in standby mode, the Informer is not heard, but continues to monitor the selected NOAA radio channel for emergency broadcasts.

For further information pertaining to EAS, consults your local NOAA weather center or the FCC at www.fcc.gov.

Testing

After the installation is complete, do the following:

- Test the Informer and all accessories from the control point(s) to ensure it is operation properly; that is, the keypad, strobe, and LEDs.
- Verify all tone, voice, and text messages contain the correct content per the emergency operating plan. Alerts should exceed the ambient sound levels by at least 10 dB to ensure they can be heard. Verify voice quality to ensure that speech is intelligible over the Informer's speaker.
- Verify the Informer activates for all required functions that were programmed into the unit.
- Verify proper operation of the keypad, LEDs, and battery backup.
- Conduct testing on a regular basis per facility safety plans to ensure the equipment remains in working order and operators remain familiar with the use of the equipment. Federal Signal recommends a monthly test.

To run the monthly test, do the following:

1. Remove the external power from the unit.
2. Hold down the MONITOR and RESET/TEST buttons together until you hear the alert tone and the Alert and Test LEDs are turned on. After the test, the Power LED should be blinking and the Alert and Test LEDs should turn off.

If you do not hear the tone or if the Power LED turns off completely, contact your local service center for repair.

3. If the test runs successfully, reconnect the external power and verify the power LED stops blinking and turns on steady.

Training

Ensure all users are properly trained to use the system before putting the Informer into service. The user should be able to detect the warning tone in the desired coverage area. Users should have instructions.

Using the Battery Switch

The battery has a disconnect switch located inside the Informer TAR. The switch is intentionally out of reach to avoid tampering and should not be switched by the end user under normal circumstances. The battery switch is factory pre-set to ON. The switch location is shown in the “Input/Output Definitions” section on page 6.

IMPORTANT: Do not turn off the Informer TAR unless it is being removed from service.

You can toggle the switch by moving it left for OFF or right for ON. The switch is on when it is pushed away from the center of the Informer TAR. After the battery switch is turned on, re-connect the Informer TAR to power. To verify the battery switch is on, remove power from the Informer TAR and verify that the power LED begins to flash. If the LED does not flash, check the battery switch position again and retry this test.

Replacing the Battery

The Informer uses a 6 V, 1.2 A/H sealed valve regulated rechargeable battery (part number 155191A). Replace the battery with the same make and model battery as the original equipment. Typical battery life ranges from three to five years depending on use.

The battery is located between the Informer door and PC board, and should only be replaced by a qualified service technician.

WARNING

Batteries installed shall not be exposed to excessive heat such as sunshine, fire or the like.

Replacement Parts

The Informer uses one of these two types of connectors: one with slots or one without slots. Match the 8-pin connector of your Informer to the picture below and order the corresponding part number.

Table 12 Replacement Part Numbers

Picture	Part Number
	13900406A-08
	140372A-08

Getting Service

Refer to the *Programming and Radio Alignment Manual for option I-SW* for alignment instructions. Refer to an authorized Federal Signal Service center for radio alignment and servicing.

If you are experiencing any difficulties, contact Federal Signal Customer Care at: 800-548-7229 or 708-534-3400 extension 5822 or Technical Support at: 800-524-3021 or 708-534-3400 extension 7329 or through email at: techsupport@fedsig.com. For instruction manuals and information on related products, visit: <http://www.alertnotification.net/>

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