

## WT4911 Two-Way Wireless Outdoor Siren Installation Instructions

Use this installation sheet along with the associated alarm system installation manual for installation instructions and programming details. All instructions specified within that manual must be observed.

The WT4911 is a two-way wireless outdoor siren. Siren sounds and the strobe light are activated when an alarm condition is received via a DSC wireless protocol from a compatible, two-way enabled security panel (e.g., PC9155). The WT4911 must be enrolled on the security panel before it can receive commands from the panel for sounding alarms, strobe activation and communicating a required response, such as the WT4911 status or the local outdoor temperature. The outdoor siren is capable of sounding different alarm cadences (e.g., carbon monoxide, continuous burglary, pulsating fire, or temporal three fire), bell squawks and buzzer tones to suit the type of command it receives. Up to four WT4911s can be enrolled on the same security panel and supervised as separate units. To ensure two-way contact between the siren and the security panel, the WT4911 regularly sends supervisory signals to the security panel. With each supervisory signal sent to the panel, the siren provides the outdoor temperature. In addition, the WT4911 monitors for the case and will tamper switch states, and the battery state. In the event of a low battery or a tamper activation, the WT4911 will transmit the appropriate signal to the security panel, and (if configured) provide an audible and visual indication that a local event has occurred.

### Specifications

Humidity (max): 93% R.H.	Operating Temperature: -35°C to 70°C (-31°F to 158°F)
Operating Frequency: 433.92 MHz	Temperature Range for UL/ULC: -35°C to 66°C
Battery Life: 3-5 years (typical usage)	Low Battery Level: 3.15V pre-determined
Alarm Signals-Output Level: 105dB @ 1m	Weight: 1.8lbs and IP rating: 34
Battery: D size 3.6V Lithium Thionyl Chloride (ER34615M, Able) (WT4911-BATTERY, Custom Made Battery Pack lithium PIC protected)	
Compatible control panels: PC9155-433, PC9155D-433, PC9155E-433	

### Two-Way Wireless Outdoor Siren Enrollment

Setting up the WT4911 consists of enrolling and powering up the device. Enrolling the WT4911 permits the siren to communicate with the security panel. The installer can activate the outdoor siren by Quick Enrollment or Serial Number Programming, see below.

#### Quick Enrollment

**WARNING: The LEDs will flash brightly on power up.**

- Enter the enrollment mode through installer programming, see section [898].
- Power up the outdoor siren by activating the pre-installed battery (plug the battery cable into the battery connector located inside the backplate to activate the battery.) If it is already powered up, press and release the tamper switch.
- The outdoor siren sends a request to the security panel to enroll on the system.
- The keypad displays the electronic serial number which must be confirmed by keying in [\*] if the electronic serial number is incorrect, Press [#] and repeat this step.
- Select the module number that the device should be enrolled as.

**NOTE: The electronic serial number is a 8-digit alphanumeric number located on a sticker on the wireless device.**

Siren #	Serial Number
[301] #1	
[302] #2	
[303] #3	
[304] #4	



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- Repeat starting from step 2, to enroll each additional outdoor siren.

#### Serial Number Programming

- Enter the enrollment mode through installer programming, see section [804].
- Select the module number that the device will be enrolled as. Sections [301]-[304] for sirens.
- Enter the serial number using the keypad.

#### Placement Test

Perform a placement test to ensure there is sufficient signal strength at the desired mounting location for proper communication between the security panel and the siren.

- Place the security panel into placement test, see section [904].
- Start the placement test by tampering the outdoor siren being tested.
- The siren will respond with 1 strobe flash and 1 beep if the location is "Good". If the siren is at a "Bad" location then it will respond with 3 strobe flashes and 3 beeps.

**WARNING: Wear hearing protection when installing the outdoor siren.**

#### Physical Installation

The outdoor siren is mounted onto a flat surface, such as the outside of a building. A wide variety of mounting surfaces are acceptable but the mounting material must be able to support the weight of the siren.

**NOTE: The wall tamper switch must remain closed when the outdoor siren is mounted.**

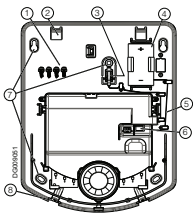
- Open the WT4911 by lifting the front cover up from the siren bottom until it separates from the backplate.
- If the battery is not already activated, plug the battery cable into the battery connector, see figure 2.
- Position the backplate on a flat mounting surface and mark this location.
- Secure the backplate to the mounting surface with all the screws provided for this purpose (4 screws). A screw must be installed in the tamper switch portion of the backplate.
- Carefully hinge then snap the front cover back onto the backplate, making sure it is correctly aligned, see figure 1.
- Secure the front cover to the backplate with 2 front cover screws. The remaining screws are spares.

Figure 1. Open (Close) Front Cover



Figure 2. Outdoor Siren Backplate

- Front cover mounting screws (x4)
- Backplate hinge (x2)
- Tamper (siren test) button
- Battery pack – custom mode
- Battery cable
- Battery connector
- Mounting hole (x5)
- Front cover screw hole (x2)



### Battery Replacement

**NOTE: Please contact your local distributor to obtain a replacement battery.**

The security panel will indicate when the battery is low and requires replacement. The battery must be replaced by a **TRAINED SERVICE PERSON ONLY. REPLACE ONLY WITH THE TYPE RECOMMENDED BY THE MANUFACTURER.** Open the front cover and install the battery, observing the polarity as indicated by the engraving. If the battery is installed incorrectly, in the reverse polarity, the outdoor siren will not work. Under typical use the WT4911 is capable of operating on battery power alone for 4 years without having to replace the battery (under normal operating conditions). **Do not try to recharge the battery. Disposal of used batteries must be made in accordance with the waste recovery and recycling regulations in your area.**

### Configuration and Testing

Use the keypad interface to setup the WT4911 siren options supported by the main panel (see table below).

**NOTE: The wireless keypad receives the temperature from the outdoor siren enrolled in the lowest slot.**

Programming Section	Options	
Siren: <input type="checkbox"/> Siren# 1[311] <input type="checkbox"/> Siren# 2[312] <input type="checkbox"/> Siren# 3[313] <input type="checkbox"/> Siren# 4[314]	<input type="checkbox"/> 1. Alarm sounds Enabled <input type="checkbox"/> 2. to <input type="checkbox"/> 4. Not Available <input type="checkbox"/> 5. Bell Squawks Enabled <input type="checkbox"/> 6. Strobe Enabled <input type="checkbox"/> 7. Strobe follows BTD <input type="checkbox"/> 8. Siren Tamper Disabled	<input type="checkbox"/> 1. Alarm sounds Disabled <input type="checkbox"/> 2. to <input type="checkbox"/> 4. Not Available <input type="checkbox"/> 5. Bell Squawks Disabled <input type="checkbox"/> 6. Strobe Disabled <input type="checkbox"/> 7. Strobe follows Alarm Condition <input type="checkbox"/> 8. Siren Tamper Disabled
Global Siren: <input type="checkbox"/> Sirens# 1-4 [320]	<input type="checkbox"/> 1. Tamper Activates Siren/ Strobe <input type="checkbox"/> 2. Pre-Alarm Signal Enabled <input type="checkbox"/> 3. Strobe Squawks Enabled <input type="checkbox"/> 4 to <input type="checkbox"/> 8. For Future Use	<input type="checkbox"/> 1. Tamper does not Activate Siren/Strobe <input type="checkbox"/> 2. Pre-Alarm Signal Disabled <input type="checkbox"/> 3. Strobe Squawks Disabled <input type="checkbox"/> 4 to <input type="checkbox"/> 8. For Future Use
Max. Siren Time: <input type="checkbox"/> Sirens# 1-4 [330]	Maximum Siren Activation Time         Valid entries are 000-255 minutes, Default 010	

**NOTE: For UL/ULC residential fire and burglary installations set maximum activation time to 5 minutes.**

**IMPORTANT:** The equipment is **FIXED, WALL MOUNT** and shall be installed in the position specified in these instructions. The equipment enclosure must be **FULLY ASSEMBLED and CLOSED**, with all the necessary screws/nuts and secured to a wall before operation. Internal wiring must be routed in a manner that prevents excessive strain on wire and on terminal connections; Loosening of terminal or connectors; Damage of conductor insulation. • **WARNING:** Never install this equipment OR replace the battery pack during a lightning storm! Never touch uninsulated wires or terminals unless the battery pack has been disconnected. • Instruct the **END USER** to **DO NOT** attempt to service this product. Opening or removing covers may cause exposure to dangerous voltages or other risks. **ANY** service shall be referred to **TRAINED** service personnel only. • **DO NOT THROW** the battery pack into a fire or water. Disposing the battery pack in a fire will cause rupture and explosion. **DO NOT DISPOSE** of the waste battery as unsorted, flammable liquid waste. Consult your local rules and/or laws regarding recycling of this Lithium battery pack. It will help protect the environment by reducing the number of batteries consumed. Some of the materials that are found within the battery could become hazardous if not disposed of properly and may affect the environment, and indirectly everybody's health. This product contains a Lithium Thionyl Chloride non-rechargeable battery pack. Due to this fact, the equipment shall be Installed, Maintained and Serviced by **SERVICE PERSONS ONLY; ONLY TRAINED TECHNICIANS** have the mandate to replace the battery pack! Risk of fire OR explosion if the battery pack is not properly connected; Avoid short circuit; Do not expose batteries to temperatures above 100°C; Do not use water in case of battery leakage. Refer to the MSDS of battery for more details.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules.

#### FCC Compliance Statement

**CAUTION:** Changes or modifications not expressly approved by Digital Security Controls could void your authority to use this equipment. 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.

**IC: 160A-N74911** The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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The complete R&TE Declaration of Conformity can be found at [http://www.dsc.com/listings\\_index.aspx](http://www.dsc.com/listings_index.aspx).



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