INTELLIGENT WIRELESS

QUELL

Smoke Alarm User Guide

Photoelectric Smoke Alarm with Voice
and Wireless Interconnect – Battery Operated
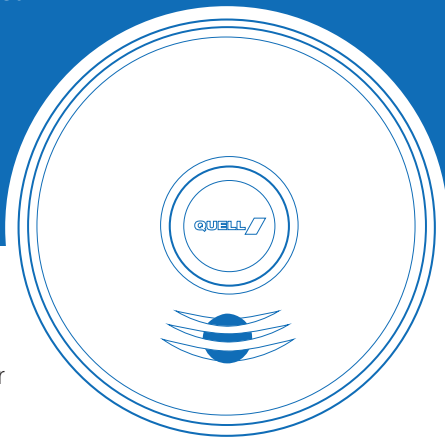
Model Q4000DCS-WCB
Model Q4000DCS-WCL
Model Q4000DCS-WBB
Model Q4000DCS-WBL
Model Q4000LDCS-WCH (Safety Light)
Model Q4000LDCS-WBH (Safety Light)

WIRELESS INTERCONNECT:

You do NOT need a home wi-fi system to use
these units. Multiple wireless units create their
own independent wireless alarm network.
Quell alarms connect to each other wirelessly
via communication on the 915-928 MHz band.

ACTIVFIRE™ LISTED

PHOTOELECTRIC SMOKE ALARM

- **10-YEAR SEALED
  LITHIUM BATTERY**
- **WIRELESS INTERCONNECT**
- **VOICE ALARM**

P/N: 137071, 137073, 137077,
     137072, 137074, 137078

P/N:0316-7201-01

Thank You for Purchasing this Quell® Smoke Alarm

These models are powered by a non-replaceable, long life sealed lithium battery system, and include SMART HUSH Control to temporarily silence nuisance alarms. They are capable of interconnecting wirelessly via RF signals.

STOP **READ SECTION 7:** Activation and Wireless Alarm Network, before powering the units. You do NOT need a home wi-fi system to use these units. Quell® alarms connect to each other wirelessly via communication on the 915-928 MHz band.

Teach children how to respond to the alarm and that they should never play with the unit.

Your Quell® Smoke Alarm was designed for use in a residential environment.

NOTE: Please thoroughly read this user guide and save the document for future reference and to pass on to any subsequent owner.

Contents

1. Smoke Alarm: What To Do When the Alarm Sounds

Smoke alarm pattern is three long beeps (ISO 8201) with voice "Fire!," a 1.5 second pause, and three long beeps repeating. The red LED blinks in time with alarm pattern.

- Alert small children in the home as well as anyone else who might have difficulty recognising the importance of the alarm sounding or that might have difficulty leaving the area without help.

- Leave immediately by your escape plan. Every second counts, so don't waste time getting dressed or picking up valuables.

- When leaving, don't open any inside door without first feeling its surface. If hot, or if you see smoke seeping through cracks, don't open that door! Instead, use your alternate exit. If the inside of the door is cool, place your shoulder against it, open it slightly and be ready to slam it shut if heat and smoke rush in.

- If the escape route requires you to go through smoke, stay close to the floor where the air is cleaner. Crawl if necessary, and shallow breathe through a cloth, wet if possible.

- Once outside, go to your selected meeting place and make sure everyone is there.

- Call the fire brigade on 000 (AUS) or 111 (NZ) from your cell phone or neighbour's home or cell phone - do not use your home phone!

- Don't return to your home until the fire officials say that it is all right to do so.

NOTE: See Section RECOGNIZING NUISANCE ALARMS, for nuisance alarm situations.

2. Other Alarm Visual and Audible Indicators

Operational Mode	Visual Indications	Audible Indications	Action/Note:
Normal (standby)	Green LED blink approx every 60 sec.		
Test (button press when no alarm condition is present)	• 4 patterns of Red/Amber/Green. • Test: Red LED blinks in time with alarm pattern. Safety light will briefly illuminate on model Q4000LDCS-WCH or Q4000LDCS-WBH. • Green LED fade on/off at test complete	• Button press sound • Voice: "Testing, this is very loud. Press now to cancel test. 5, 4, 3, 2, 1." • 3 long beeps, Voice "Fire!", 3 long beeps, Voice "Test Complete," Power on/reset sound. • Voice "Test Cancelled" if button pushed before test sequence begins.	Perform Test/Hush button press once a week to verify proper alarm operation Push/release button before the countdown ends to cancel test.
Smoke Alarm Memory (unit has experienced a smoke alarm event within the last hour)	Red and Amber LED alternate on 1 sec, every 10 sec.	After button push: "Smoke previously detected" only on the initiating alarm unit.	Push test button to clear Alarm Memory. NOTE: standard test sequence will follow. (Push/release button again to cancel test).
Smoke Alarm Hush Mode, (SMART HUSH CONTROL)	Red LED blinks every 2 sec.	After button push: "Hush Mode Activated." Smoke alarm pattern stops. (If there is too much smoke to allow Hush: Voice "Too Much Smoke, Alarm cannot be Hushed" Smoke alarm pattern continues.)	This feature is to be used only when a known alarm condition, such as smoke from cooking, activates the alarm.
Locate	None	After button push on non-initiating unit, only initiating unit continues alarm pattern.	Use this to quickly locate the alarm source and determine if alarm is nuisance or real.
Smoke Alarm Hush Mode Cancelled	None	Voice message "Hush Mode Cancelled."	When smoke levels drop below the alarm threshold, the voice message "Hush Mode Cancelled" will occur .
Initiating Alarm, (Multiple alarms in an interconnected system)	Red LED will flash on the unit initiating the alarm, but the red LED on other interconnected units will not flash.	Unit in Smoke Alarm mode.	Push button on initiating alarm to silence that unit and all interconnected units.

3. Troubleshooting Guide

Trouble Condition	Visual Indications	Audible Indications	Action:
Low Battery	Amber LED blinks every 5 seconds	Chirp every 60 sec, voice every 30 sec: "Replace alarm." Voice stops after 5 mins.	*Remove, discharge, dispose unit, and replace as soon as possible.
Fault Mode		Chirp every 30 sec. Voice every 30 sec: "Error, see trouble shooting guide" After 5 mins: no voice message	*See Cleaning Your Alarm section. * Push Test/Hush button once to attempt to reset the unit . *Red LED will blink out an error code (number of blinks) when Test/Hush button is push/released once. Report the number of blinks to customer service if needed.
End of Unit Life		Double chirp every 30 sec. First 5 mins: Voice every 30 sec: "Replace alarm, press button to silence." Voice stops after 5 mins. After 7 days: Chirps continue. Voice every 30 sec for 5 mins: "Replace alarm."	* Push/release Test/Hush button to temporarily silence (see End of Unit Life Hush Mode section below) * Remove, discharge, dispose unit, and replace as soon as possible.
End of Unit Life Hush Mode (after push/release Test/Hush button during End of Life)		Voice "Temporarily Silenced." End of Unit Life chirps silenced for 24 hrs. (7 days after End of Unit Life chirps begin, the chirps cannot be silenced.)	* Remove, discharge, dispose unit, and replace as soon as possible.
Network Error		Chime every 30 secs. Voice every 30 sec: "Connection Lost. Press Button to Silence." After 5 min: no voice messages (Note: network must have 3 or more alarms for voice messages.)	See next page for Network Error troubleshooting tips.
Network Error Hush (after button push during Network Error)		Voice "Temporarily Silenced."	

If you require further information please contact Product Support at 1800 654 435 or write us at: Chubb Fire & Security Pty Ltd t/a Quell, 33-39 Talavera Road, Macquarie Park, NSW 2113 Australia. Our website is www.quell.com.au.

Network Error Troubleshooting Tips

If you have a unit (or units) in network error and you would like to silence them, you can push and release the Test/Hush button once on each unit in network error to silence them for 24 hours at a time. NOTE: when you do this, the red LED will blink out an error code (number of blinks) when the Test/Hush button is push/released once. If the following steps are unsuccessful, it might be helpful to report the number of blinks to customer service.

Fix 1:

NOTE: If there is only one unit that is giving you trouble, rotating the alarm on the mounting plate may re-orient the wireless antenna and fix the problem.

1. Press and hold the button on a known working unit (not the unit in network error) for 4-5 seconds until you hear 2 beeps.
2. Go to the room/location of the unit in network error.
3. Rotate the network error unit 90 degrees in either direction on the mounting plate.
4. Press and hold the button on the network error unit for 4-5 seconds until you hear 2 beeps.
5. Within 10 seconds, the network error unit should re-join the wireless network and should show fading green lights, with a voice "Success, now connected." If this is the case, press and hold the button on the same unit for 4-5 seconds until 2 beeps are heard.

NOTE: If the unit does not re-join the wireless network, press and hold the button on a known working unit (not the unit in network error) for 4-5 seconds. Then proceed to "Fix 2."

Fix 2:

NOTE: In a wireless alarm network, there is a Coordinator unit, which controls communication to the other units, which are called "RFDs". For best wireless range, the coordinator should be located in a central location of the household.

If "Fix 1" does not work or if there are multiple units in network error, the following steps will place the coordinator of the wireless network at the center of the household.

1. Go to a wireless unit that seems closest to the center of the house.
2. If this unit is not in network error, press and hold the button on that unit for 4-5 seconds until you hear 2 beeps, and a voice "Searching for other devices," as well as a sonar ping sound. If it is in network error go to "Fix 3" below.
3. You will now need to locate the coordinator of the system.
    a. The coordinator will be fading green on/off every 2 seconds. The RFDs of the system will be fading green on/off every 4 seconds.
    b. The wireless network will stay open for 15 minutes. If the wireless network closes, press and hold the button on any known working wireless unit for 4-5 seconds until 2 beeps are heard, followed by voice "Searching for other devices," as well as a sonar ping sound, to re-open the wireless network.

4. Once you have located the coordinator of the wireless network, take the coordinator down and swap it with the unit that was deemed to be in the center of the house (found in steps 1 and 2).

5. Go to each unit that is in network error and press/hold the button on that unit for 4-5 seconds until you hear 2 beeps.

   a. The unit should join back to the wireless network,with voice "Success, now connected." The lights on the unit should flicker once and then be fading green on/off every 4 seconds. If this is the case, press/hold the button on any unit to close the wireless network.

   b. If the unit doesn't join the network, rotate the unit 90 degrees in either direction.

   c. If the unit still hasn't joined the network, press and hold the button on a known working unit for 4-5 seconds to close the wireless network and then proceed to "Fix 3."

Fix 3:

If "Fix 2" did not work, use this fix. The following steps will reset the entire wireless alarm network and place the coordinator at the center of the household.

1. Take all wireless units down from their installed locations and set all units on a table.

2. Reset all the units one by one by pressing and holding the button for 8-9 seconds until you hear 3 beeps and a voice "Resetting wireless settings."

   NOTE: if resetting the units doesn't result in the voice message "Ready to connect, follow quick start instructions", the unit needs to be replaced with a new one.

3. Create a new wireless alarm network by pressing and holding the button on any unit for 4-5 seconds until you hear 2 beeps, and voice, "Searching for other devices" with a sonar ping. Keep track of this unit, as it will become the coordinator of your wireless alarm network.

4. Wait for the other units to join the new wireless network. Each unit will announce "Success, now connected."

5. After each unit has joined, press/hold the button for 4-5 seconds on the coordinator unit.

6. Take the same unit (coordinator) and install it closest to the center of the household.

   a. Example 1: For a 2 floor house, install the unit on the main floor near the center of the main floor.

   b. Example 2: For a 3 floor house, install the unit on the middle floor near the center of the middle floor.

7. Install the rest of the units around the house (you may place units in any location as instructed by this user guide). If the network error persists after these attempted fixes, remove the unit, discharge it, and replace it with a new unit as soon as possible. Contact customer service.

4. Introduction, Product Features and Specifications

Introduction

This alarm detects products of combustion using photoelectric technology. Ten (10) years after the unit was installed, this unit will automatically alert you that it is time to replace the unit. This is called "End of Unit Life" mode. See Section 3 Troubleshooting Guide.

To help identify the date to replace the unit, a label has been affixed to the side of the alarm. Write the "Install date" in the space provided, and then write in the "Replace by" date (10 years from initial power up) in permanent marker on the label prior to installing the unit.

Product Features and Specifications:

- Temperature: Operating Range: 0 °C to 40 °C

- Humidity: Operating range: up to 93% RH non-condensing

- Audible Alarm: 85+ dB at 10' @ 3.0 to 3.5 KHz pulsing alarm, with voice message "Fire!"

  NOTE: This is not a CO alarm, but it will receive and transmit a CO alarm signal (with voice message "Warning! Carbon Monoxide") from an interconnected CO or combination smoke/CO alarm.

- Smoke Sensor: Photoelectric

- Voice message system

- Smoke Alarm SMART HUSH Control

- Ambient Light Sensing

- Powered by 3V DC non-replaceable sealed lithium battery.

- Wireless interconnectable to other compatible alarms.

- One large, user- friendly button.

- LED safety light on model Q4000LDCS-WCH and Q4000LDCS-WBH to help illuminate escape pathways.

5. Limitations of Smoke Alarms

- Life safety from fire in residential occupancies is based primarily on early notification to occupants of the need to escape, followed by the appropriate egress actions by those occupants.

- Some people may be too old or young, or physically or mentally impaired such that they can not escape even when warned early enough, where escape should be possible. For these people, other strategies such as a level of suppression protection in place or assisted escape or rescue are necessary in addition to to a smoke alarm.

- Subject to applicable legislative and regulatory requirements, leading authorities recommend that both ionization and photoelectric smoke alarms be installed to help insure maximum detection of the various types of fires that can occur within the home. Ionization sensing alarms may
detect invisible fire particles (associated with fast flaming fires) sooner than photoelectric alarms. Photoelectric sensing alarms may detect visible fire particles (associated with slow smoldering fires) sooner than ionization alarms.

- A battery powered alarm must have a battery of the specified type, in good condition and installed properly (This model has a sealed battery).

- Smoke alarms must be tested regularly to make sure the battery and the alarm circuits are in good operating condition.

- Smoke alarms cannot provide an alarm if smoke does not reach the alarm. Therefore, smoke alarms may not sense fires starting in chimneys, walls, on roofs, on the other side of a closed door or on a different floor.

- If the alarm is located outside the bedroom or on a different floor, it may not wake up a sound sleeper.

- The use of alcohol or drugs may also impair one's ability to hear the smoke alarm. For maximum protection, a smoke alarm should be installed in each sleeping area on every level of a home.

This alarm is not intended to alert hearing impaired individuals.

6. Recommended Locations for Smoke Alarms

Refer to your local state and federal laws or contact your local fire brigade to determine the minimum installation requirements (Figure 6.1 A and Figure 6.1 B).

Recommended Locations

- In every room where someone sleeps with the door closed. The closed door may prevent an alarm located outside from waking the sleeper.

- In the immediate area of bedrooms and the exit path from all sleeping areas (Figure 6.1 A).

- In stairways, as stairways act like chimneys for smoke and heat.

- In any room where large electrical appliances are operated (e.g., portable heaters or humidifiers).

- If a hallway or room is more than 9.1m long put alarms at both ends.

- For maximum household protection see Figure 6.1 C.ordinary residential construction.

Things to Consider:

- Smoke from a fire will rise to the ceiling and spread horizontally.

- Mounting the smoke alarm in the centre of the ceiling places it closest to all points in the room.

- When mounting an alarm on the ceiling, locate it at a minimum of 30cm from the side wall (Figure 6. 2A).

- For sloped, peaked or cathedral ceilings the alarm should be placed between 500mm and 1500mm from the highest point of the ceiling (Figure 6.2A and 6.2B).

- Smoke alarms in rooms with ceiling slopes greater than 1m in 8m horizontally, should be located on the high side of the room (Figure 6. 2 A).

For Wall Mounting:

When mounting the alarm on the wall, use an interior wall with the top edge of the alarm at a minimum of 10cm and a maximum of 30cm below the ceiling (Figure 6.2 A).

DINING ROOM   KITCHEN   BEDROOM   BEDROOM

LIVING ROOM   BEDROOM
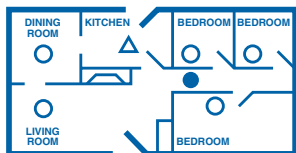
● Smoke Alarms for Minimum Protection

○ Smoke Alarms for Additional Protection

△ Ionisation Type Smoke Alarm with Alarm Silencer (Hush) or Photoelectric Type

SINGLE FLOOR PLAN

FIGURE 6.1 A

BEDROOM   HALL   BEDROOM

LIVING ROOM   KITCHEN

BASEMENT
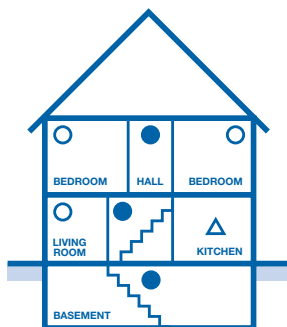
MULTIPLE FLOOR PLAN

FIGURE 6.1 B

BEDROOM   HALL   MASTER BEDROOM

GARAGE   KITCHEN   FAMILY ROOM

BASEMENT   WORKSHOP
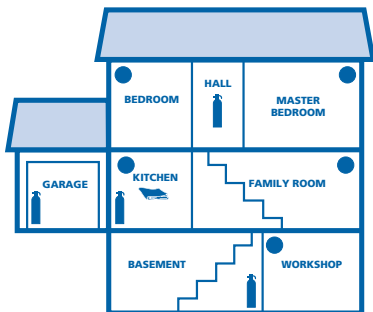
FIRE EXTINGUISHERS

SMOKE ALARMS

FIRE BLANKET

TOTAL HOME PROTECTION

FIGURE 6.1 C

CEILING

30 cm (12 in)
MINIMUM

DEAD AIR

10 cm (4 in)
MINIMUM

30 cm (12 in)
MAXIMUM

BEST
PLACEMENT

DO NOT INSTALL

ACCEPTABLE
PLACEMENT

SIDE WALL

500mm
NOT IN
THIS AREA

1000mm
ANYWHERE IN THIS
AREA

DEAD AIR

DO NOT INSTALL

PEAK CEILING

FIGURE 6.2 A

500mm
NOT IN
THIS AREA

1000mm
ANYWHERE IN THIS
AREA

DEAD AIR

Smoke alarm should
be located between
500mm and 1500mm
of the highest point.

DO NOT INSTALL

SLOPED CEILING

FIGURE 6.2 B

To minimise nuisance alarms avoid these locations:

- Do not install within 0.9m of the following: the door to a kitchen, or a bathroom that contains a tub or shower, forced air supply ducts used for heating or cooling, ceiling or whole house ventilating fans, or other high air-flow areas.
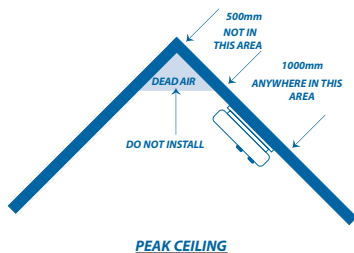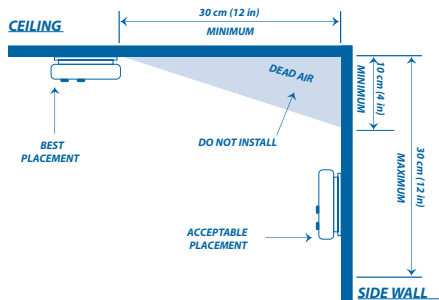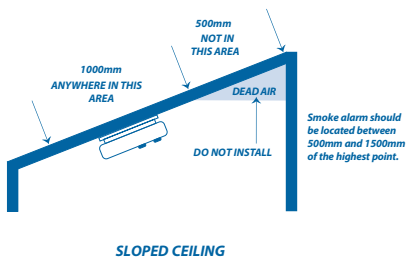
- Areas where curtains or other objects will block the sensor. Smoke must be able to reach the sensor to accurately detect conditions.

- Install at least 30cm away from fluorescent lights.

- Keep out of insect infested areas.

- Avoid excessively dusty, dirty or greasy areas.

- Do not install in areas where the temperature is colder than 0°C or hotter than 40°C.

- Do not install in areas where the relative humidity (RH) is greater than 93%.

- If a kitchen alarm is desired, it should have an alarm silencer feature or be a photoelectric type.

- Do not place in the garage.

- Avoid dead air spaces such as the peak of an "A" frame ceiling. "Dead Air" at the top may prevent smoke from reaching the alarm in time to provide early warning. Refer to Figures 6.2 A and 6.2 B.

N.B. - Smoke alarms are not to be used with detector guards unless the combination (alarm and guard) has been evaluated and found suitable for that purpose.

Mobile Home Installation

For Well Insulated Mobile Homes

Install smoke alarms as recommended on the previous pages. In mobile homes that are not well insulated extreme heat or cold can be transferred from the outside to the inside through poorly insulated walls and roof. This may create a thermal barrier which can prevent the smoke from reaching an alarm mounted on the ceiling.

For Poorly Insulated Mobile Homes

Install the smoke alarm on an inside wall with the top edge of the alarm at a minimum of 10cm and a maximum of 30cm below the ceiling (Figure 6.2A).

For minimum protection, install at least one alarm close to the bedrooms. For additional protection, see Figure 6.1 A.

⚠ **WARNING: TEST YOUR ALARM OPERATION AFTER MOBILE HOME HAS BEEN IN STORAGE OR UNOCCUPIED, AND AT LEAST ONCE A WEEK DURING USE.**

7. Activation and Wireless Alarm Network

Upon initial power being applied (from rotating onto mounting plate or moving the red activation wheel to the "ON" position - see Figure 7.1-B) these units are ready to connect to a network.

NOTE: At any time during wireless alarm setup, if you have a problem, you can push and hold the Test/Hush button on any problem unit until you hear three (3) beeps (approx 8 sec), and then release the button. The unit will reset the unit's wireless settings (described in Section 7.3). Once wireless settings are reset, the unit will prompt the user to follow Quickstart instructions.

NOTE: Wireless units will emit a series of LED blinks, tones, and voices as the unit(s) search for a wireless alarm setup. If you are intending to use wireless units without the wireless function, ignore these notifications, and the wireless function will eventually turn off. You can turn the wireless function on again at a later date if desired. See Section 7.2.

NOTE: The battery activation is a one-time feature. After activation, the battery cannot be turned off, and can only be discharged at the end of product life. If the alarm is removed from the mounting plate, the battery will remain active. See Permanently Disable Alarm / Discharge Battery section.

Wireless

These models have wireless alarm interconnect capability. When one interconnected unit sounds an alarm, all other compatible wireless units in the wireless alarm network will alarm. These alarms connect to each other wirelessly via communication on the 915-928 MHz band.

- A maximum of 24 Quell Safety devices may be interconnected. The interconnect system should not exceed the following individual limits: 12 smoke alarms and/or 18 alarms total (smoke, CO, Smoke/ CO Combination, heat, etc.) and/or 6 remote signaling devices and / or relay modules.

- Maximum distance between wireless interconnect models is greater than 100 meters in open air.

COMPATIBLE WIRELESS INTERCONNECT UNITS
DC Models: Q4000DCS-WCB, Q4000DCS-WCL, Q4000DCS-WBB, Q4000DCS-WBL, Q4000LDCS-WCH (Safety Light), Q4000LDCS-WBH (Safety Light)

7.1 Setting Up a Wireless Alarm Network

Creating an interconnected wireless alarm network is a simple process, with intelligent "self-enrollment" features, and user-friendly voice prompts.

A. REMOVE ALL DEVICES FROM THEIR PACKAGING

B. POWER UP ALL DEVICES

Figure 7.1-B

- Locate the red wheel on the back of the device. Turn the red wheel to the "ON" position on ALL devices using the white tool included with the Quick Start Guide.
- Once powered, the light rings will glow red and voice message will announce, "Ready to connect. Follow Quick Start instructions."
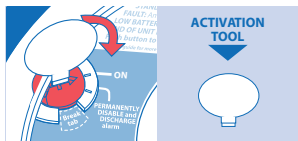
NOTE: *If no further steps are taken within 15 minutes of initial power up, a voice prompt, "No devices found, not connected" will be heard once, and the wireless function will turn off. The unit will then perform as a standard stand alone alarm. See Section 7.3 for re-activating wireless.*

C. PICK ONE DEVICE

NOTE: *This chosen device will be the "coordinator" of the wireless alarm network. Keep this unit separated from the others. For best results, after wireless setup is complete, install the coordinator in a central location.*

Figure 7.1-C

Press and hold the button on only ONE device until you hear two beeps. Release button. You will hear "Searching for other devices".

- The light will pulse and device will sound a continuous "Sonar" ping until step E is complete.

D. RELAX AND WAIT

NOTE: *For reference, these non-coordinator units are called "RFDs".*

Figure 7.1-D

Wait until all other devices (RFDs) have connected to network. Once connected, each device will speak, "Success now connected!"

- Once connected, the lights will glow green.

E. PICK ONE DEVI CE

Press and hold the button on only ONE device until you hear 2 beeps. Release button. "Sonar" ping will stop.

Figure 7.1-E

- Device will announce that setup is complete and the number of connected devices.

F. WIRELESS SETUP COMPLETE!

If all devices flash green and "Sonar" ping has stopped, the devices are now connected. Congratulations!

IMPORTANT: If for some reason, you forget which unit is the coordinator, follow these simple steps to re-confirm the coordinator and the RFD units.

1. Press and hold the button on any unit for 4-5 seconds until 2 beeps are heard. Release button.

2. Observe the LED ring on each unit. The coordinator will be fading green on/off every 2 seconds. The RFDs will be fading green on/off every 4 seconds.

3. After confirming the coordinator, press and hold the button on any unit for 4-5 seconds until 2 beeps are heard.

G. PLEASE SELECT LOCATION AND INSTALL ALARM

Please see section 8 "Installation / Mounting Instructions"

7.2 Adding Another Wireless Device to an Existing Wireless Alarm Network

For various reasons, you might want to add additional units to your existing wireless alarm network. Modifying your existing wireless alarm network is easy and user-friendly.

A. REMOVE THE NEW DEVICE FROM ITS PACKAGING.

B. POWER UP NEW DEVICE
Locate the red wheel on the back of the device being added. Turn the red wheel to the "ON" position using the white activation tool included in the Quick Start Guide or a standard screwdriver.

- Once powered, the light ring will glow red.

Figure 7.2-B

C. PICK ONE INSTALLED DEVICE

Press and hold the button on ONE INSTALLED device on your network until you hear two beeps. Release button. You will hear "Searching for other devices."

- Light will pulse green and device will sound a continuous "Sonar" ping until step E is completed.
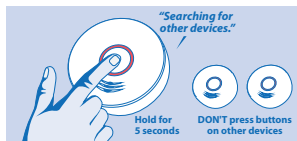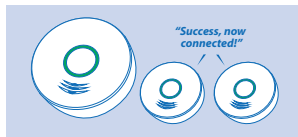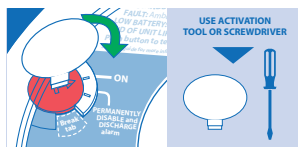

Figure 7.2-C

D. RELAX AND WAIT

Wait until the new device has connected to the network. Once connected, the new device will speak, "Success now connected!"

- Once connected, the light ring will glow green.

E. FINISH ADDING NEW DEVICE - COMPLETE WIRELESS NETWORK SETUP

Press and hold the button on the INSTALLED device for 5 SECONDS until you hear two beeps. Release button. "Sonar" ping will stop.

- Device will announce that setup is complete and the number of connected devices.

Figure 7.2-D

Figure 7.2-E

7.3 Resetting a Device's Wireless Settings

If you encounter an issue at any point during the wireless network setup process, you may reset the device by following the directions below.

A. BEGIN RESET

Press and hold the button on the device for 8-9 seconds until you hear 3 beeps. Release button. You will hear the words "Resetting wireless settings."

B. CONCLUDE RESET

Light ring will flash green once and then it will pulse red. You will hear the words, "Ready to connect, follow quick start instructions."

- Device has been reset.

- See Section 7.1 to begin set-up of a new wireless alarm network, or Section 7.2 for adding this device to an existing alarm network.

NOTE: *If no further steps are taken within 15 minutes of resetting the unit's wireless settings, a voice prompt "No devices found, not connected" will be heard once, and the wireless function will turn off. The unit will then perform as a stand alone alarm. See Section 7.2 for adding this device to an existing alarm network.*
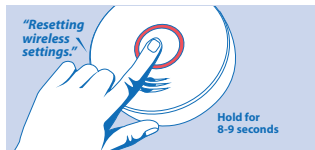

Figure 7.3-A

Figure 7.3-B

8. Installation / Mounting Instructions

⚠ **CAUTION: THIS UNIT IS SEALED (INCLUDING THE BATTERY). THE COVER IS NOT REMOVABLE!**

Once the steps to setup the wireless alarm network have been completed, please proceed to the following installation steps.

1. To obtain aesthetic alignment of the alarm with the hallway or wall, the "A" line on the mounting bracket should be parallel with the hallway when ceiling mounting or horizontal when wall mounting.

When mounting in a hallway, the "A" line should be parallel with the hallway.

Figures 8-A

Alignment Marks ("A" Line) on Mounting Bracket

When wall mounting, the "A" line should be horizontal.

Figures 8-B

Remove

Install
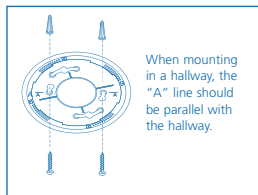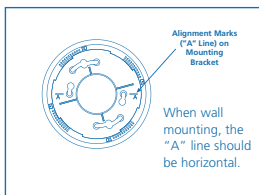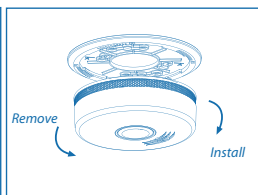
Figures 8-C

2. After selecting the proper smoke alarm location as described in Section 6, attach the mounting bracket to the ceiling as shown in Figure 8-A. For wall mounting see Figure 8-B. Place the mounting plate on the wall; be sure the "A" line is horizontal (parallel to the floor). Use the screws and anchors provided to secure the mounting bracket (use 3/16" drill bit for anchors).

3. This alarm has a battery permanently sealed inside; No battery installation is necessary.

Align the alarm with the mounting plate and rotate clockwise (right) until the unit stops and clicks into place.

• Install the alarm fully on the mounting bracket by rotating the alarm in a clockwise direction.

NOTE: The alarm will mount to the plate in four (4) positions (every 90 degrees).

The alarm is now activated! After installation/activation, test your alarm as described in Operation and Testing section.

⚠ **WARNING : FAILURE TO PROPERLY INSTALL AND ACTIVATE THIS ALARM WILL PREVENT PROPER OPERATION OF THIS ALARM AND WILL PREVENT ITS RESPONSE TO FIRE HAZARDS.**

9. Operation and Testing

Operation

The alarm is operating once it is activated and testing is complete. When products of combustion (smoke) are sensed, the unit sounds a loud alarm with voice messages. See Sections 1 and 2 for alarm signal descriptions.

Testing

Test your alarm weekly by pressing and releasing the test button quickly. A quick beep will confirm the button has been pushed followed by voice prompts that will inform you of the upcoming test sequence. See Section 2: Other Alarm Visual and Audible Indicators table. The alarm and voice (and any interconnected units) will sound if the electronic circuitry, horn, speaker, and battery are working. If the alarm or voice does not sound, or gives erratic or low volume sound, the unit must be replaced. See Section 12: Permanently Disable Alarm / Discharge Battery to determine how to prepare the unit for shipment or disposal.

⚠ **WARNING: DUE TO THE LOUDNESS OF THE ALARM, ALWAYS STAND ABOUT 2.5 FEET AWAY FROM THE UNIT OR USE EAR PROTECTION WHEN TESTING.**

⚠ **WARNING: DO NOT USE AN OPEN FLAME TO TEST YOUR ALARM, YOU COULD DAMAGE THE ALARM OR IGNITE COMBUSTIBLE MATERIALS AND START A STRUCTURE FIRE.**

Ambient Light Sensing

This unit samples the ambient light conditions of the alarm's location and, if possible, determines a Night / Day cycle. A valid Night / Day cycle will delay unit chirps during the night until the next Day cycle begins.

Chirping

When chirping begins during the next Day cycle, you can temporarily silence End of Unit Life or Network Error chirps by pressing the Test/Hush button. Low Battery chirps cannot be silenced.

If a valid Night / Day cycle has not been established because the unit is located in either a constantly dark or lighted location, the chirps mentioned above will not be delayed at night. Moving the unit to a different location might allow the unit to determine a valid Night / Day cycle.

POSSIBLE CHIRPING REASONS
End of Unit Life: will be delayed at night
Network Error: will be delayed at night
Low battery: will be delayed at night

⚠ **WARNING: REPLACE UNIT AS SOON AS POSSIBLE WHEN IN END OF UNIT LIFE OR LOW BATTERY MODE.**

10. Recognizing Nuisance Alarms

Smoke Nuisance

HUSH : If you know why the alarm is sounding, and you can verify that it is not a life threatening situation, you can push the button on the initiating unit (green LED flashing every second) to silence the alarm for 8-10 minutes. If the smoke is not too dense, that unit, and all interconnected units will silence. After the Hush period, the smoke alarm will automatically reset and sound the alarm if particles of combustion are still present. You can use Hush repeatedly until the air has been cleared of the condition causing the alarm.

NOTE: Dense smoke will override Hush and sound a continuous alarm. If no fire is present, check to see if one of the reasons listed in "Locations to avoid" may have caused the alarm. If a fire is discovered, get out and call the fire department.

This alarm is designed to minimize nuisance alarms. Cigarette smoke will not normally cause the unit to alarm, unless the smoke is blown directly into the alarm. Combustion particles from cooking may set off the alarm if it is located too close to a cooking appliance. Large quantities of combustible particles are generated from spills or when broiling. Using the fan on a range hood which vents to the outside (non-recirculating type) will also help prevent nuisance alarms from occurring by removing these combustible products from the kitchen.

Locate

In an interconnected system (all units will be alarming together), a unit that detects smoke and initiates an alarm is called the "initiating alarm unit." Initiating alarm units will be flashing the Green LED every second during alarm. Depending on unit locations, and the location of the source of smoke, it is possible to have more than one initiating unit. If you suspect a nuisance alarm situation, you can use this feature to help you locate the initiating alarm unit(s) in a wireless alarm interconnect system.

Push the button on any non-initiating wireless unit, and ALL wireless units EXCEPT the initiating alarm unit(s) will silence for two minutes. You can use the LOCATE feature repeatedly until you find the initiating alarm unit(s), or the air has been cleared of the condition causing the alarm.

NOTE: Hush and Locate features are dependent on the type of models in your interconnected system. Non-wireless models cannot receive the wireless Locate feature and will continue to alarm until the initiating unit is Hushed or the Smoke/ CO condition clears.

⚠ **WARNING: THIS UNIT DOES NOT DETECT CARBON MONOXIDE (CO), BUT IT WILL TRANSMIT A CO ALARM SIGNAL FROM AN INTERCONNECTED CO OR SMOKE/CO COMBINATION ALARM. THE LOCATE FEATURE CAN BE USED FOR CO ALARM EVENTS ALSO (PUSHING THE TEST/ HUSH BUTTON ON A COMPATIBLE INTERCONNECTED ALARM), BUT IT IS IMPOSSIBLE TO DETERMINE THE SOURCE OF A CO ALARM USING SIGHT OR SMELL. ALWAYS CONSIDER A CO ALARM EVENT AS DANGEROUS.**

11. Battery

NOTE: This alarm is powered by a non-replaceable, sealed lithium battery system. No battery installation or replacement is necessary for the life of the alarm.

IMPORTANT: Constant exposure to high or low humidity or temperatures may reduce battery life.

⚠ **WARNING: NO SERVICEABLE PARTS INCLUDED. DO NOT ATTEMPT TO OPEN THE ALARM FOR ANY REASON! DO NOT TRY TO REPAIR THE ALARM BY YOURSELF.**

Low Battery

This alarm is equipped with a low battery monitor circuit. If the battery capacity can no longer provide adequate power for all alarm functions, the low battery condition will occur. See Section 3 : Troubleshooting Guide. The unit must be replaced within 7 days of the first occurrence of the "Low Battery Warning" to provide continuous alarm protection.

12. Permanently Disable Alarm / Discharge Battery

⚠ **WARNING: FAILURE TO DISCHARGE ALARM BATTERY AS INSTRUCTED PRIOR TO DISPOSAL MAY CREATE POTENTIAL FOR LITHIUM BATTERY RELATED FIRE OR HAZARD.**

⚠ **WARNING: DISCHARGING THE ALARM BATTERY IS PERMANENT**

- Once the alarm battery has been discharged, it cannot be reactivated!
- Once discharged, the alarm will NO LONGER DETECT SMOKE.
- Once the alarm battery is discharged, the battery is depleted and the alarm will no longer function.
- Once the alarm battery has been discharged, the alarm cannot be mounted onto the mounting plate or reactivated.

To Permanently Disable Alarm / Discharge Battery:

- Rotate the alarm counterclockwise to remove it from the mounting plate.
- Push in the dashed area with a screwdriver to break tab (Figure 12-A).
- After the tab is broken, use the screwdriver to turn the red slotted arrow to the "Permanently Disable Alarm / Discharge Battery" location. This will disable the alarm, stop the low battery or end of unit life "chirps" and render the alarm safe for disposal by draining the battery (Figure 12-B).

Figures 12-A (top) and 12-B (bottom)

13. Cleaning Your Alarm

Your Alarm Should be Cleaned at Least Once a Year

You can clean the interior of your alarm (sensing chamber) by using compressed air or a vacuum cleaner hose and blowing or vacuuming through the openings around the perimeter of the alarm. The outside of the alarm can be wiped with a damp cloth. Use only water to dampen the cloth, use of detergents or cleaners could damage the alarm.

If the alarm is in Fault mode and the Red LED is blinking a fault code of 10 or 14 flashes (after a Test/Hush button push), the alarm may be in need of cleaning. After cleaning, press the Test/Hush button. If the fault does not clear, the alarm needs to be replaced.

- Never use detergent or other solvents to clean the unit.

- Avoid spraying air freshener, hair spray, or other aerosols near the alarm.

- Do not paint the unit. Paint will seal the vents and interfere with the sensor's ability to detect smoke.

- Never attempt to disassemble the unit or clean inside. This action will void your warranty.

⚠ **WARNING: REINSTALL THE ALARM AS SOON AS POSSIBLE TO ENSURE CONTINUOUS PROTECTION.**

14. Good Safety Habits

Develop and practice a plan of escape:
- Install and maintain fire extinguishers on every level of the home and in the kitchen, basement and garage. Know how to use a fire extinguisher prior to an emergency.
- Smoke alarms may not awaken all sleeping individuals, it is 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, or to those who may be incapable of safely evacuating the area unassisted.
- Make a floor plan indicating all doors and windows and at least two escape routes from each room. Second storey windows may need a rope or chain ladder.
- Have a family meeting and discuss your escape plan, showing everyone what to do in case of a fire.
- Determine a place outside your home where you can meet if a fire occurs.
- Familiarise everyone with the sound of the alarm and train them to leave your home when they hear it.
- Practice a fire drill at least every six months, including fire drills at night. Ensure that small children hear the alarm and wake when it sounds. They must wake up in order to execute the escape plan. Practice allows all occupants to test your plan before an emergency. You may not be able to reach your children. It is important they know what to do.

What to do when the alarm sounds
- Alert everyon and small children in the home.
- Leave immediately by your escape plan. Every second counts, so don't waste time getting dressed or picking up valuables.
- In leaving, don't open any inside door without first feeling its surface. If hot, or you see smoke seeping through cracks, don't open that door! Instead use your alternative exit.
- If the inside of the door is cool, place your shoulder against it, open it slightly and be ready to slam it shut if heat and smoke rush in.
- Stay close to the floor if the air is smoky. Breathe shallowly through a cloth, wet if possible.
- Once outside, go to your selected meeting place and make sure everyone is there.
- Call the fire brigade on 000 (AUS) or 111 (NZ) from your neighbour's home or a phone box - not from yours!
- Don't return to your home until the fire officials say that it is all right to do so.
- There are situations where a smoke alarm may not be effective to protect against fire.
For instance:
a) smoking in bed
b) leaving children unsupervised.
c) cleaning with flammable liquids, such as gasoline
d) with fires where the victim is involved with a flaming fire: for example, when a person's clothes catch fire while cooking.
e) incendiary fires where the fire grows so rapidly that an occupant's egress is blocked even with properly located detectors.

Chubb Fire & Security Pty Limited
ABN 47 000 067 541
A UTC Climate, Controls & Security Company
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Chubb New Zealand
A UTC Climate, Controls & Security Company
3 Fisher Crescent, Mt Wellington,
Auckland, New Zealand
www.chubb.co.nz

Installation Date: _____

Alarm Model(S): _____

Installer/Landlord: _____

Tel: _____

15. WARRANTY & CONTACT DETAILS

TEN YEAR LIMITED WARRANTY

Quell warrants to the original consumer purchaser that each new smoke alarm will be free from defects in materials and workmanship under normal use for a period of 10 years from the date of purchase. To the extent permitted by law, Quell agrees to repair or replace (at our discretion) any defective product on presentation of the proof of purchase.

Australia warranty claims:
Where the goods are offered for sale in Australia, the benefits to the consumer given by this warranty are in addition to other rights and remedies of the consumer under the Australian Consumer Law and other applicable laws relating to the goods. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

New Zealand warranty claims:
Where the goods are offered for sale in New Zealand, the benefits to the consumer given by this warranty are in addition to other rights and remedies of the consumer under relevant New Zealand consumer protection laws and other applicable laws relating to the goods. Our goods come with guaranteesthat cannot be excluded under relevant New Zealand consumer protection laws. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Exclusions

Subject to non-excludable laws, this warranty does not cover:

• normal wear and tear to the product or parts

• batteries or other consumables included with this product (excluding sealed non replaceable battery models)

• damage to the product caused by accidents, misuse, abuse, lack of reasonable care, tampering or repair by a person not authorised by Quell

• any product that has not been installed, operated or maintained in accordance with the manual or operating instructions provided with the product

• any damage caused by improper power input or improper cable connection

• any indirect or special loss or damage of any kind

To make a claim

If a defect in the product appears within the time frame stated, you are entitled to submit a warranty claim by returning your product to the address shown below. Please contact Quell on the telephone numbers provided below, Monday to Friday during 9.00AM - 5.00PM. When returning the product, please ensure it is properly packaged so that no damage occurs during transit. Any postage and packaging expenses required to return the product to Quell will be at your cost.

Please provide the original or a copy of the proof of purchase. Also, please make sure you have included an explanation of the problem.

If Quell elects to repair the product, please note that goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

16. SERVICE

During the specified warranty period Chubb Fire & Security Pty Ltd will repair or replace, at its discretion any defective Quell® alarms that are returned in a postage paid package to the following address: Chubb Fire & Security Pty Ltd, Quell Warranty Returns, 33-39 Talavera RD, Macquarie Park 2113 NSW.

Please include your name, address and phone number along with a brief description of what is wrong with the unit. For further assistance please call our toll free Customer Service at 1800-654-435. Damage from neglect, abuse or failure to adhere to any of the enclosed instructions will result in termination of the warranty, and the unit will not be replaced or repaired.

This User Guide and the products described herein are copyrighted, with all rights reserved. Under these copyright laws, no part of this User Manual may be copied for use without the written consent of Chubb. If you require further information please contact Customer Service at 1800-654-435 or write to us at: Chubb Fire & Security Pty Ltd, 33-39 Talavera RD, Macquarie Park 2113 NSW.

Website: www.quell.com.au

Quell® is a registered trademark of Chubb Fire & Security Pty Ltd.

This warranty is provided by:
Chubb Fire & Security Pty Ltd
ABN 47 000 067 541
33-39 Talavera Road, Macquarie Park, NSW 2113 Australia
Telephone: 1800 654 435
Website: www.quell.com.au

Chubb New Zealand
3 Fisher Crescent, Mt Wellington, Auckland, New Zealand
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Website: www.quell.co.nz

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Australian
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AS3786:2014
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United Technologies