Ricochet Wireless Expansion Kits

EN: Installation manual

INS742-2

Texecom

Content

1.0 EN Installation Manual

2.0 Introduction

The *Ricochet*® expansion kit is a quick and convenient way to add wireless devices to an existing wired security

system.

The existing system must have spare normally closed circuits to connect the zones and other outputs.

Every expansion pack contains a relay module Premier Elite iXP-W and an 8 zone wireless *Ricochet* expander

Premier Elite 8XP-W.

There are three types of expansion pack available:

• *Ricochet* External Kit which includes 2 external movement detectors

• *Ricochet* Safety Kit which includes 1 CO detector and 1 smoke detector

• *Ricochet* Smoke Kit which includes 2 smoke detectors

Other *Ricochet* wireless devices can also be used with the expansion pack:

• *Ricochet* Motion detectors

• *Ricochet* Door contacts

• *Ricochet* Shock sensors

• *Ricochet* PA Buttons (must be connected to a PA zone)

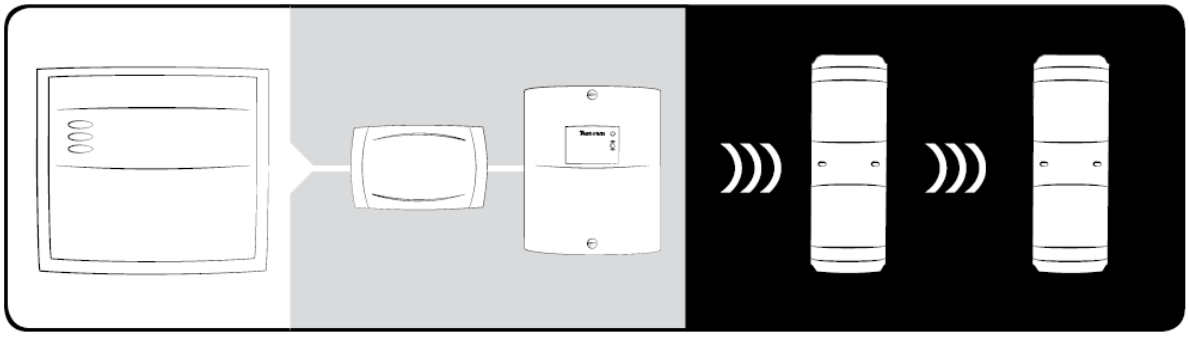
The expansion pack is to be installed by a professional installer and needs to be tested to make sure the devices

are positioned in the optimal way to communicate with the wireless expander.

NOTE: The *Ricochet* expansion packs are NOT compatible with the *SmartKey*™ or *Ricochet* enabled Odyssey

sounders.

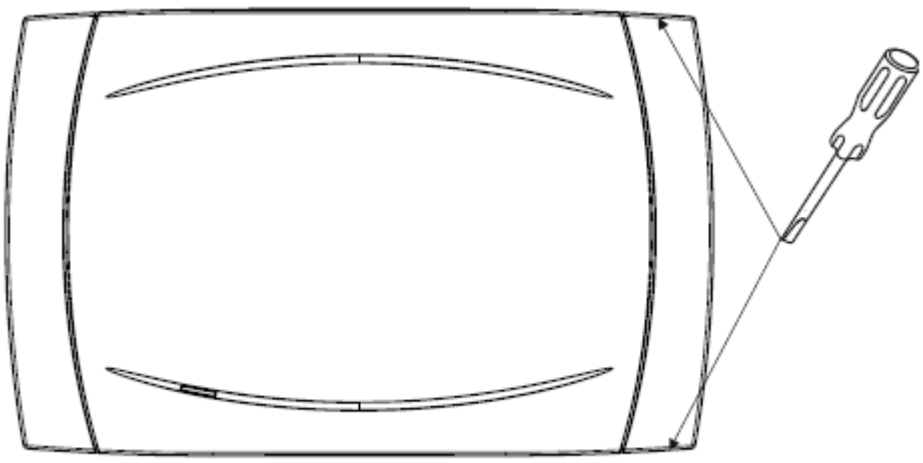
3.0 Example System



4.0 Preparation

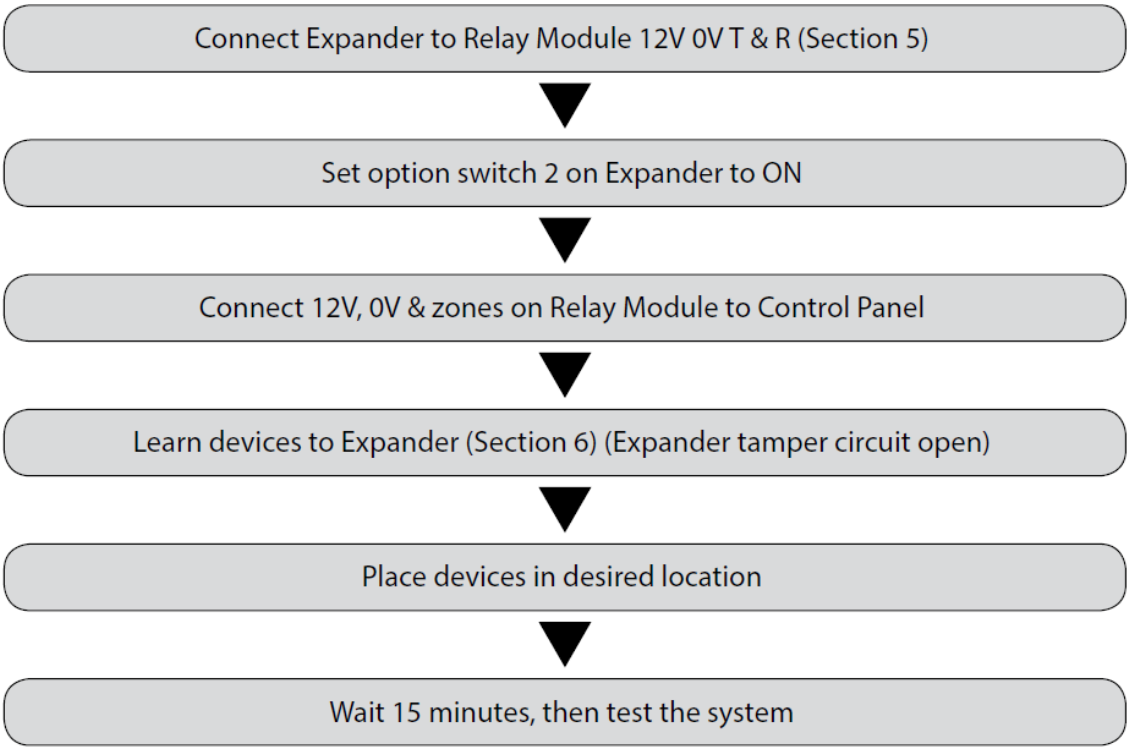
Open the expander and the relay module & wire to the system (see chapter 1.5)

- Open the devices ready to install the batteries
- Follow the flow chart in chapter 1.4
- Test the system



5.0 Installation flow chart

Installation Flow Chart.



NOTE: The system should be left for 15 minutes to allow the *Ricochet* devices to commission correctly.

6.0 Connecting the expansion kit

Connecting The Expansion Kit.

The Expander and Relay Module should be connected to the control panel and each other as described.

Expander	Relay Module	Panel	Description
+	+	Aux +	+12V Supply
-	-	Aux -	0V Supply
T	T	N/A	Transmit Data
R	R	N/A	Receive
	Z1-Z8	Normally Closed Zone	Device Interface
	GPE*	Normally Closed Zone	Global Poll Error
	GLB*	Normally Closed Zone	Global Low Battery
	GT*	Global Tamper	Global Tamper

*These are optional indicators, which will need separate normally closed circuits on the control panel to signal

global devices statuses. Do not connect all of these to the same zone. If they are not required please link them

out.

NOTE: The zones used on the control panel should be programmed to normally closed.

7.0 Learning devices

Options switch 2 on the Expander should be ON. Address switches should be all off. Address & Option switches

on the Relay Module should all be off.

Devices are learned to the receiver using the built in learn switch and the LED array.

To initiate the learn sequence press the Learn Switch on the receiver **ONCE**

1. The right hand LED **1** will flash (for 20 seconds)

2. Insert the batteries into device **1** within 20 seconds

3. The LED will extinguish

4. Press the Learn Switch on the receiver **TWICE**

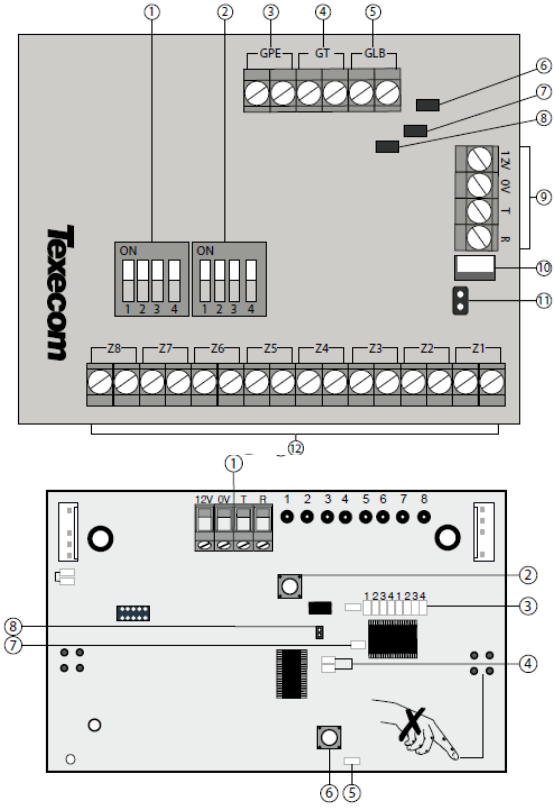
5. The Right Hand LED **2** will flash (for 20 seconds)

6. Insert the batteries into device **2** within 20 seconds

Repeat this sequence for any subsequent devices. For example press the button **3** times to learn device **3**.

LED Indications								
Left Hand				Right Hand				
1	**2**	**3**	**4**	**1**	**2**	**3**	**4**	
								Not Learning
				■				Learning Device 1
					■			Learning Device 2
						■		Learning Device 3
							■	Learning Device 4
				■			■	Learning Device 5
					■		■	Learning Device 6
						■	■	Learning Device 7
				■		■	■	Learning Device 8

8.0 Relay Module and Expert Layout



Relay Module

1. Address Switch = Not Used
2. Option Switch = Switch 4 may be used for walk test
3. Global Poll Error = Signals a polling error from a device
4. Global Tamper = Signals tamper from a device, or IXP or Receiver
5. Global Low Battery = Signals Low Battery from a device
6. Heartbeat LED = Flashes once per second
7. Transmit LED = Pulses when transmitting
8. Receive LED = Pulse when receiving
9. Network Connection = For connecting to the Expander
10. Tamper Switch = Cover Tamper
11. Tamper Disable = Disables cover tamper
12. Zone Connections = Connect to N/C zones on panel

Expander

1. Network Connections = Connect to Relay Module
2. Lid & Rear Tamper switch = leave open when learning devices
3. Learn LED's = Use to learn devices
4. Network LED's = The flash rate depends on RF activity
5. Heartbeat LED = Flashes steadily (On or OFF indicates a fault)
6. Learn Switch = Used to learn devices
7. RF Lead = Flashes when transmitting or receiving data
8. Tamper disable= Disables lid & Rear Tamper

9.0 Specifications

Premier iXP-W Relay Module - Electrical & Physical	
Operating Voltage	10 - 13.7VDC
Current Consumption	<20mA
Network	4-wire standard 7/0.2 alarm cable up to 250m.
Inputs 1 - 8	N/C
Operating Temperature	-10°C (+14°F) to +50°C (+122°F)
Storage Temperature	-20°C (-4°F) to +60°C (+140°F)
Maximum Humidity	95% non-condensing
EMC Environment	Residential, Commercial, Light Industrial or Industrial
Dimensions	L147mm x W92mm x H32mm
Weight	151g

Premier Elite 8XP-W Expander - Electrical & Physical	
Operating Voltage	10 - 13.7VDC
Current Consumption	<120mA
Network	4-wire standard 7/0.2 alarm cable up to 250m. Star, Daisy Chain or any combination.
Outputs 1 - 8	Not Used
Operating Temperature	-10°C (+14°F) to +50°C (+122°F)
Storage Temperature	-20°C (-4°F) to +60°C (+140°F)
Maximum Humidity	95% non-condensing
EMC Environment	Residential, Commercial, Light Industrial or Industrial
Dimensions	170mm (H) x 140mm (W) x 35mm (D)
Weight	230g

Premier Elite 8XP-W Expander - Wireless	
Frequency	868.0MHz – 868.6MHz
Product Type	GCD1000-2 868MHz Frequency
Receiver	Category 1 Class 2
Receiver LBT (Listen Before Talk)	Yes
Transmitter Duty Cycle	868MHz <1%

Standards

Texecom declares that this product complies with the requirements of the

following directives:

2014/53/EU RE Directive 2014/30/EU EMC Directive

2014/35/EU LV Directive 2011/65/EU ROHS Directive

The product therefore meets all the requirements to enable it to be CE marked.

WEEE Directive: 2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as

unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of

equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.

This product is a Type B Moveable device and is suitable for use in systems designed to comply with EN 50131-1, EN50131-3, EN50131-5-3

and PD6662 at Grade 2 and Environmental Class II.

The wireless Premier Elite 8XP-W expander connected with the IXP is a solution designed for connection to other alarm panels. EN50131 system

compliance can be achieved if:

i. The alarm panel is EN50131 Grade 2 compliant and has been installed in accordance with Grade 2 compliance.

ii. The Global tamper and battery monitoring from the IXP should be connected to zones on the Alarm panel as instructed.

References to the Premier Elite or Premier panels in the component instructions should be ignored as these refer to using Texecom panels as

opposed to the use of the Premier Elite 8XP-W as a standalone alarm receiver.

Warranty

The Premier Elite 8XP-W expander/Premier iXP-W module is covered by a 2 year

warranty against defects in material or workmanship.

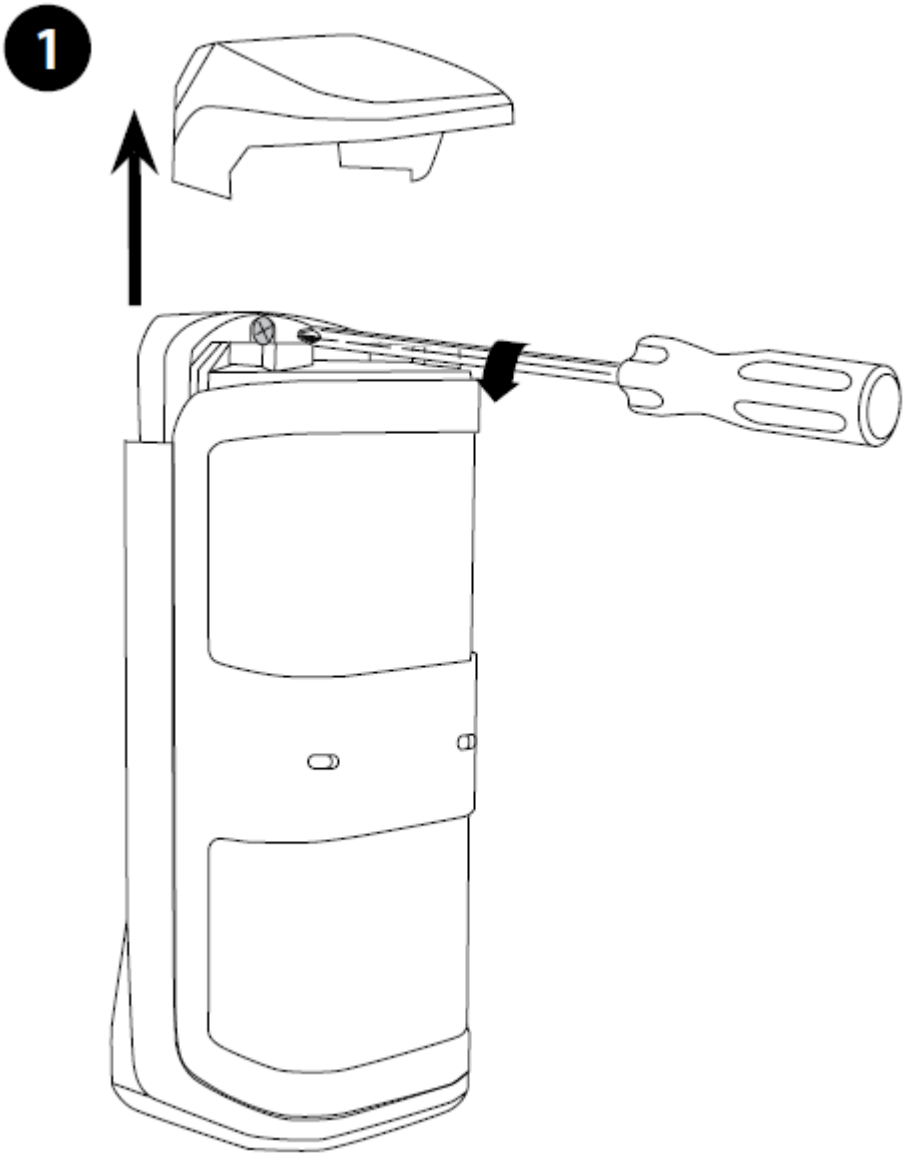
As the Premier Elite 8 XP-W expander/ Premier iXP-W module is not a complete alarm system but only a part thereof, Texecom cannot accept

responsibility or liability for any damages whatsoever based on a claim that the device failed to function correctly. Due to our policy of continuous

improvement Texecom reserve the right to change specification without prior notice.

10.0 Installation Instructions - Premier External TD-W

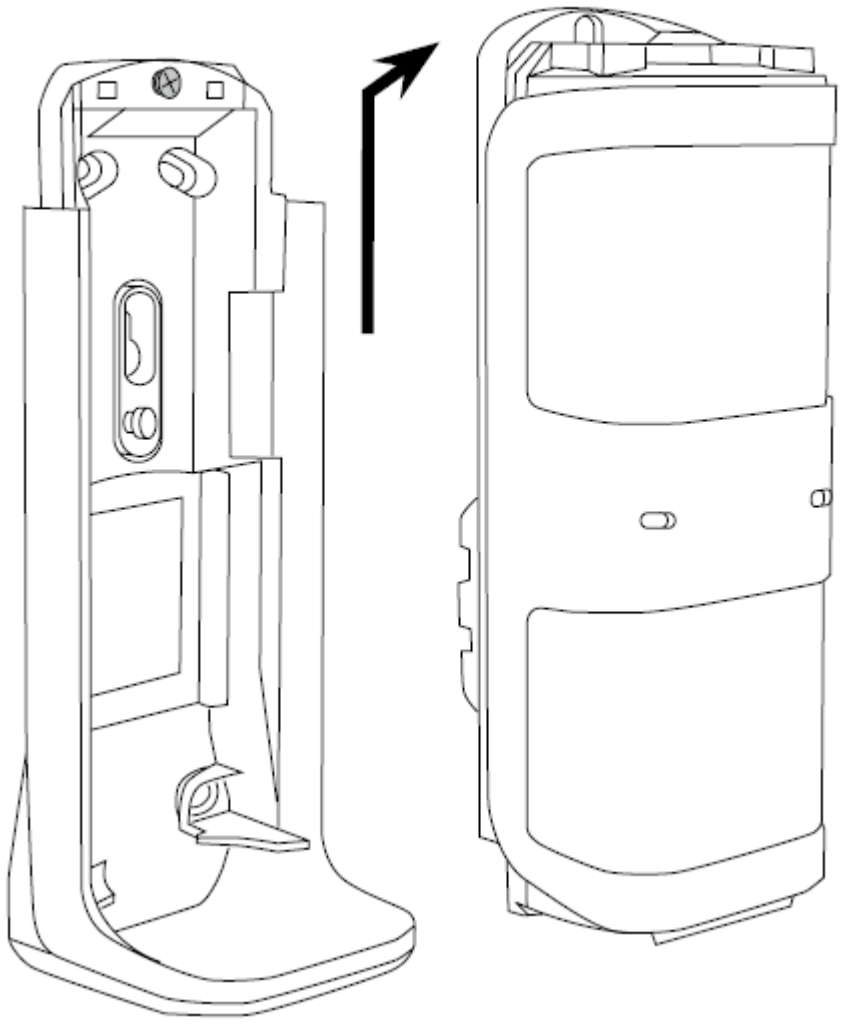
11.0 Accessing the unit & battery installation

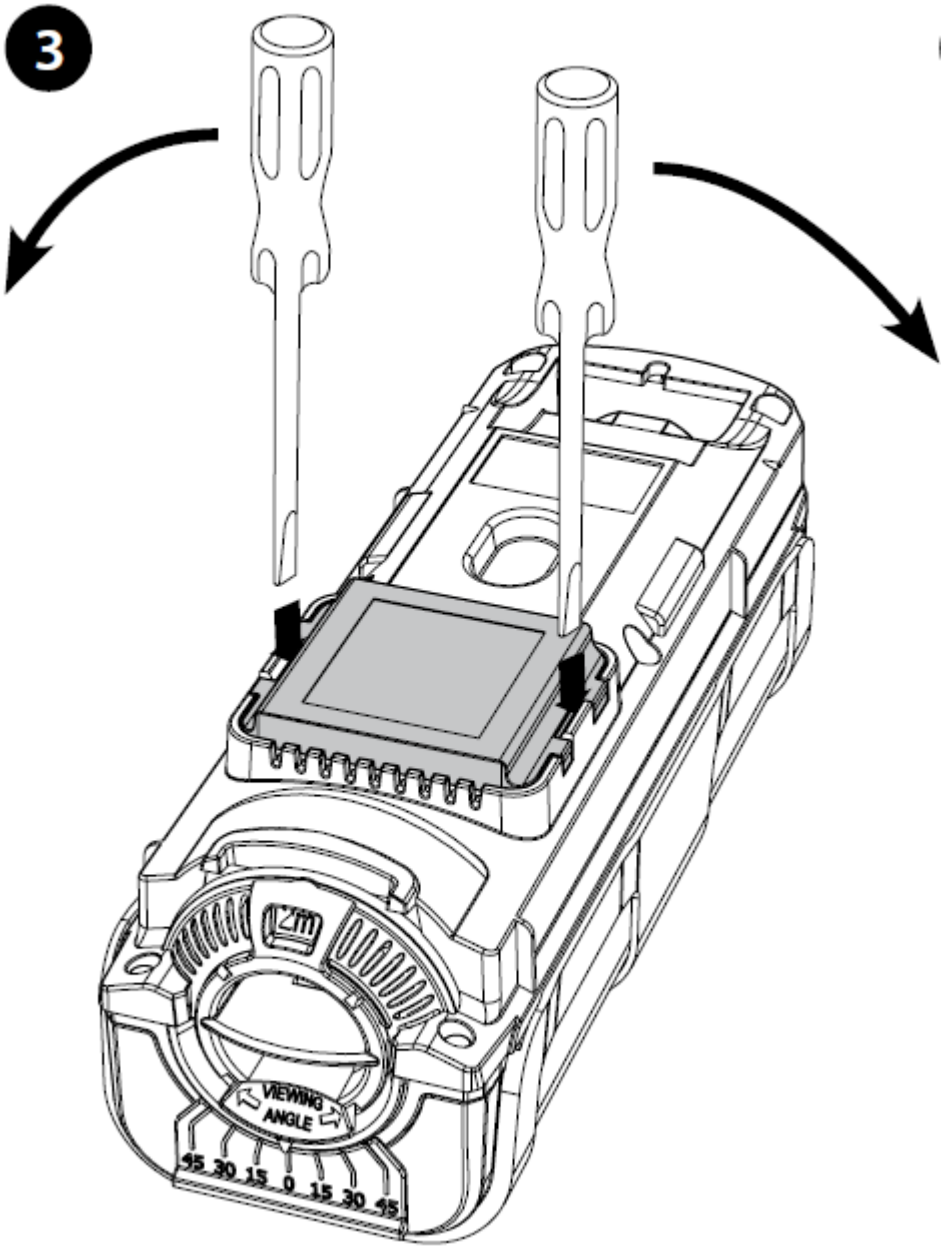


Remove the top cap and loosen screw

(screw retained in wall plate).

2



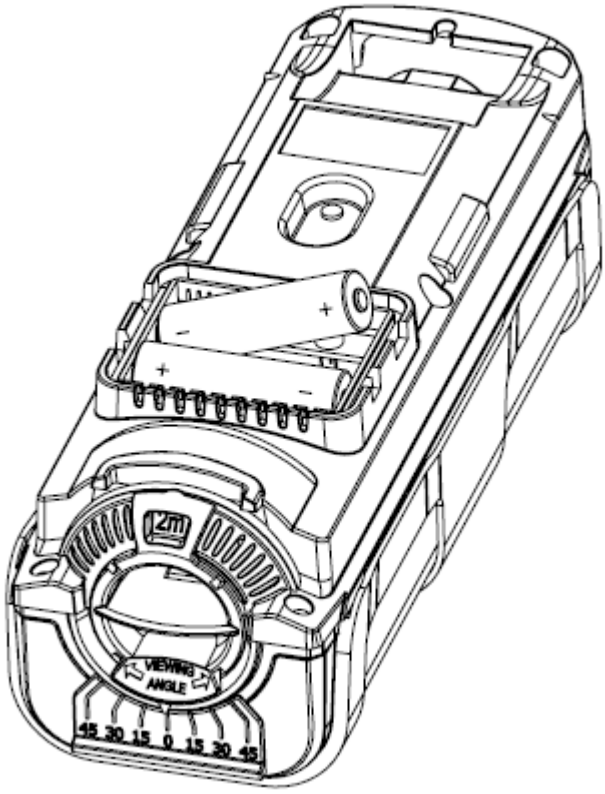


Use a flat head screwdriver to lever out

both sides of the battery cover.

Start the learn process on the keypad and then insert the

batteries - Battery connection will automatically start the learning sequence. Device reverts back to programmed network if receiver is not in learn mode (when replacing battery).



LEARN THE DEVICE TO THE SYSTEM BEFORE MOUNTING.

When in Auto Mode, devices poll at 15 minute intervals.

Following activation, devices will not transmit the same activation again for a period of 3 mins.

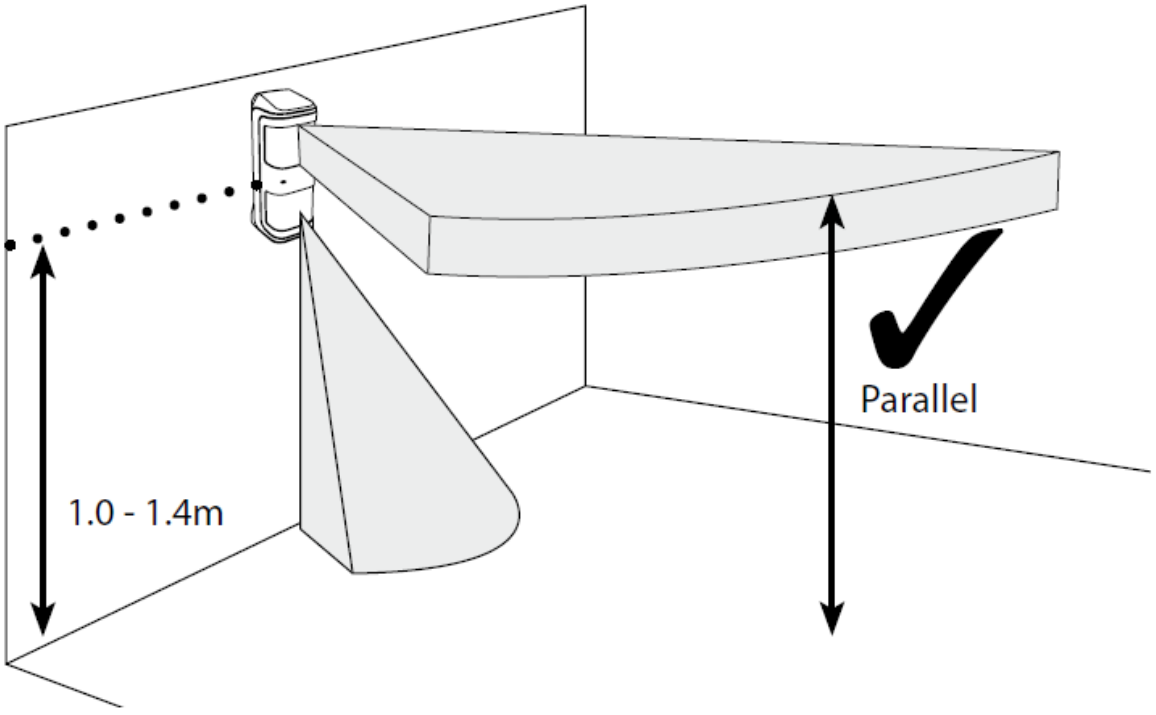
For wireless connectivity, detailed programming and

system set-up instructions please refer to the compatible *Ricochet* mesh technology enabled Premier Elite wireless expander or control panel manual.

12.0 Choosing a Location

- Mounting height 1.0 - 1.4m (nominal 1.2m), measured to middle of unit.

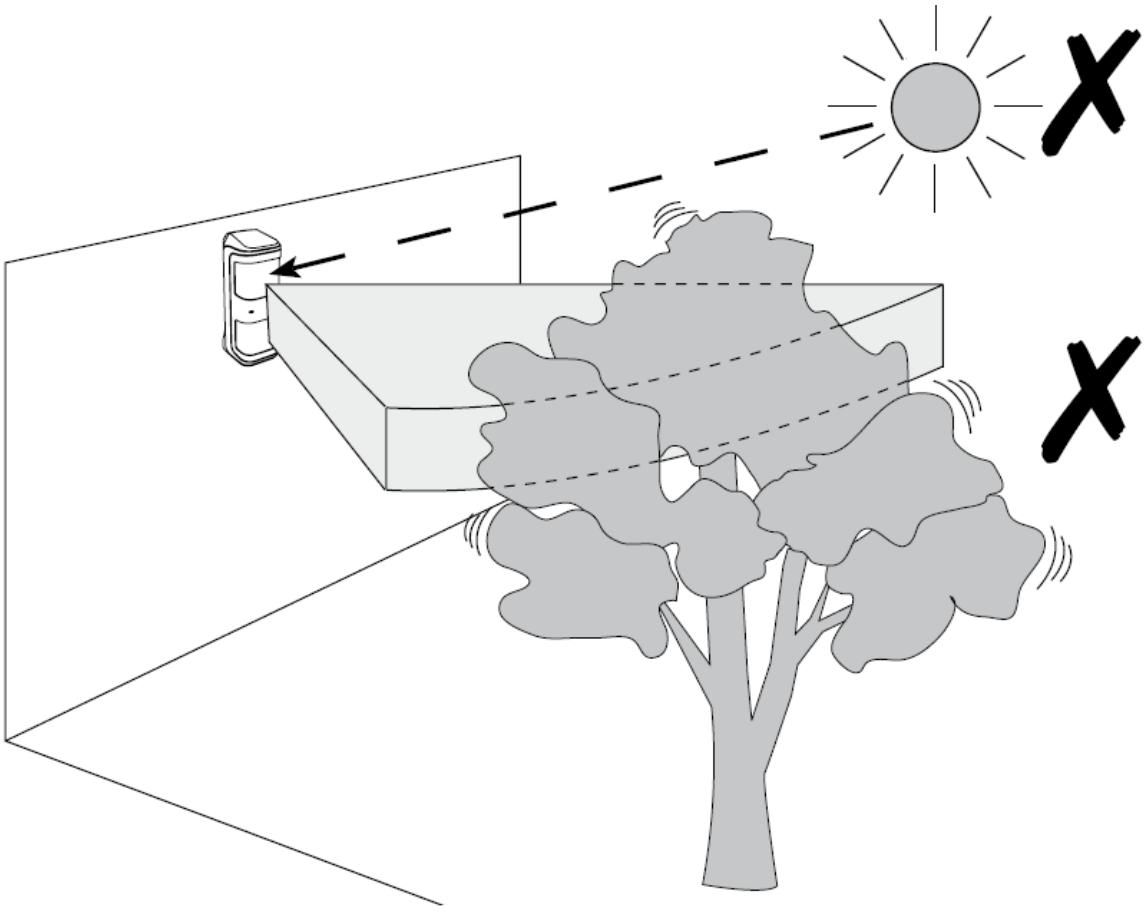
• Mount perpendicular to ground.



• Do not install close to large metal objects (eg. metal lintel) or mains wiring.

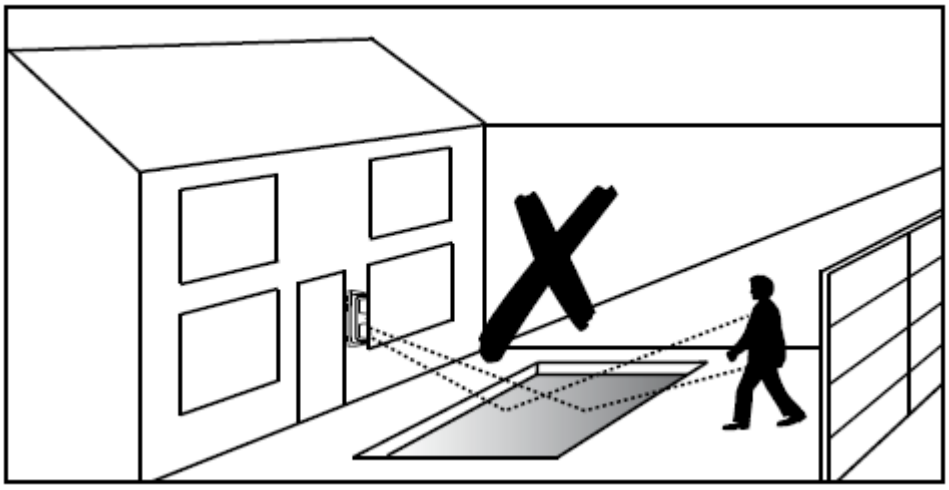
• Try to avoid direct sunlight.

• Avoid pointing at swaying bushes/trees and swaying clothes on a clothes line.

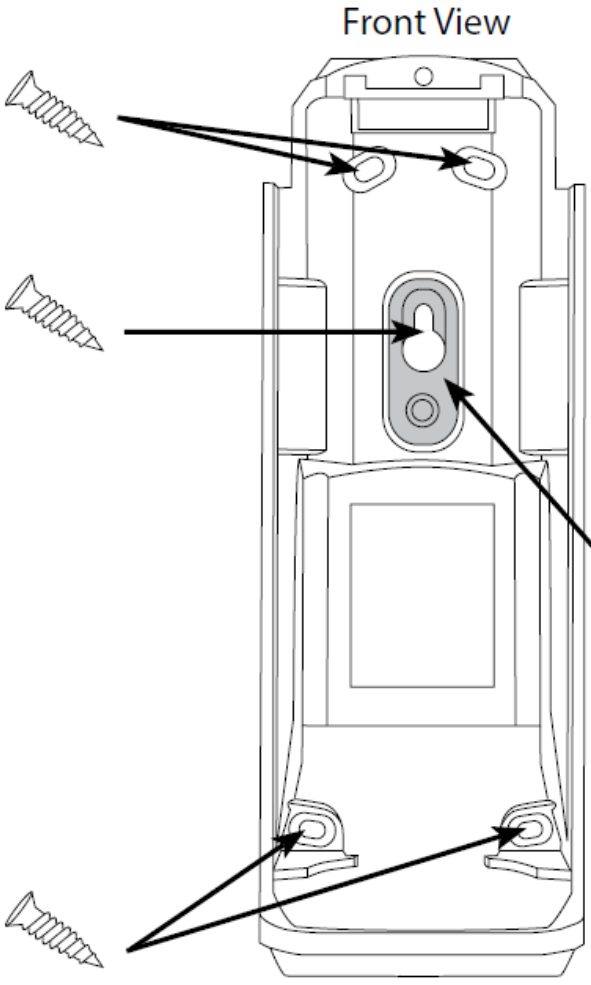


Try to install the detector so its detection area is terminated by building/fences etc. This will reduce the effect of range variation caused by environmental changes.

• In the detection area try to avoid reflective surfaces such as standing water, swimming pools or polished floors as this can cause the detectors range or coverage to vary as reflected signals may be seen.



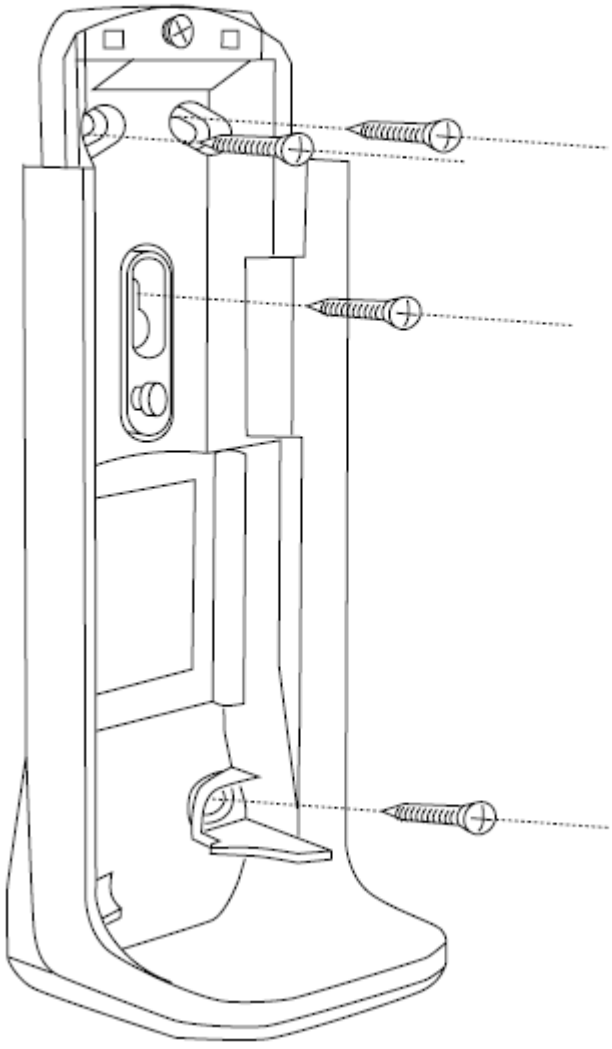
13.0 Mounting the Unit



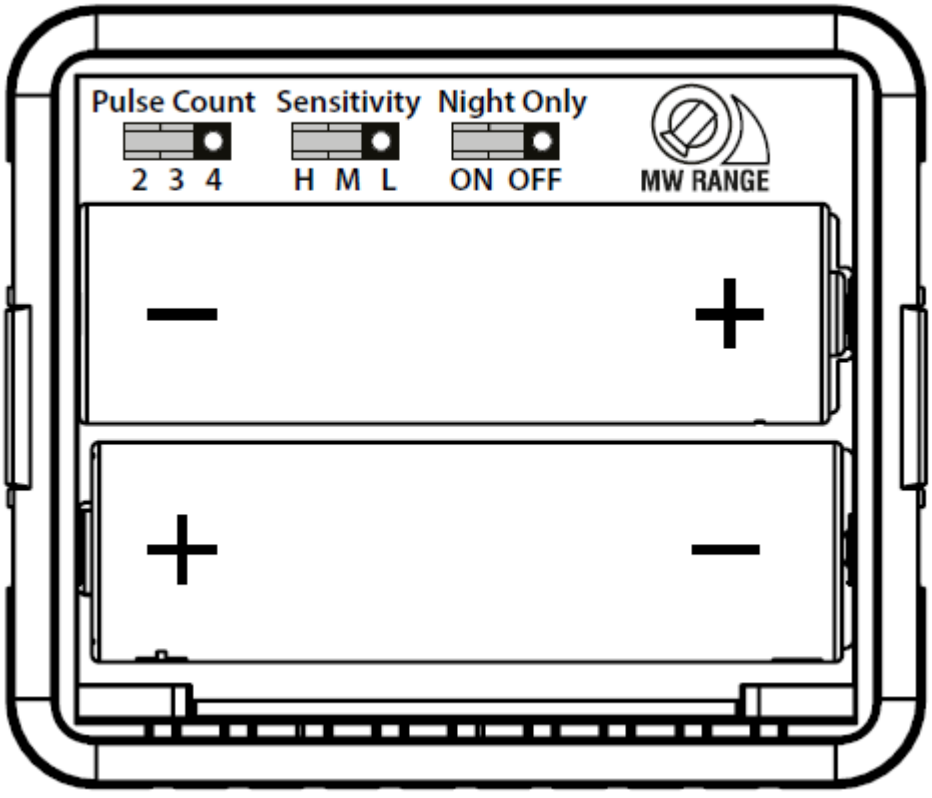
REAR TAMPER

To enable the rear tamper, the breakaway keyhole section must be securely fixed to the mounting surface.

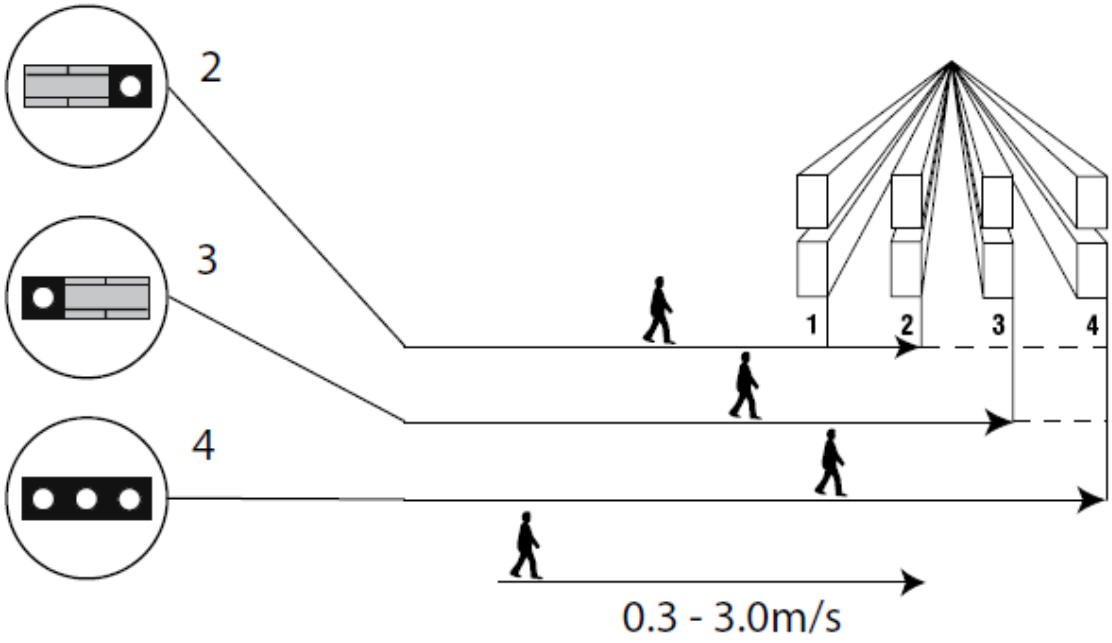
WALL MOUNTING



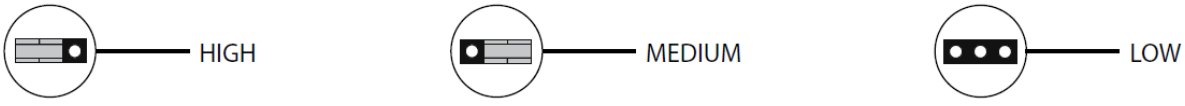
14.0 Jumper Settings



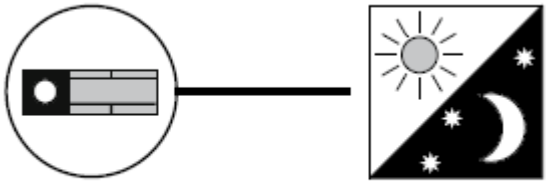
14.1 JP1: Pulse Count



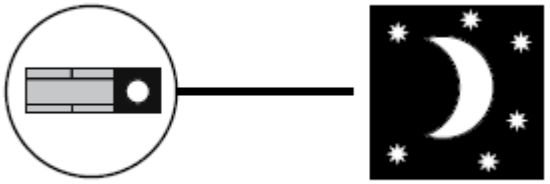
14.2 JP2: Sensitivity



14.3 JP3: MODE

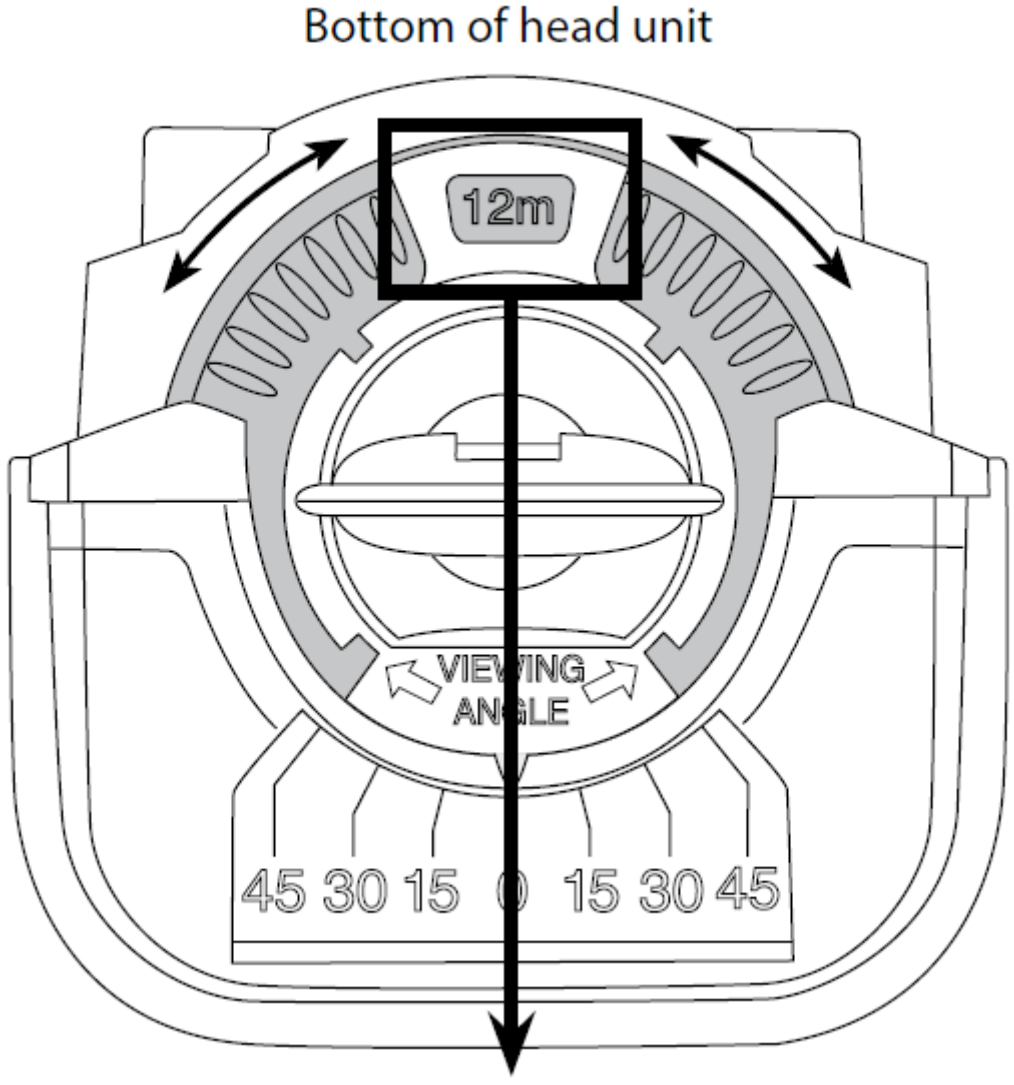


Day/Night Mode
Detector is always
operating.



Night Mode
Detector only operates
at night.

15.0 Range Adjustment - PIR

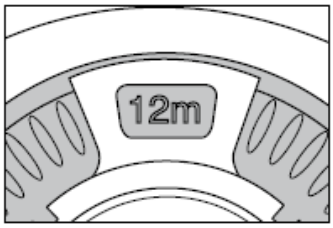


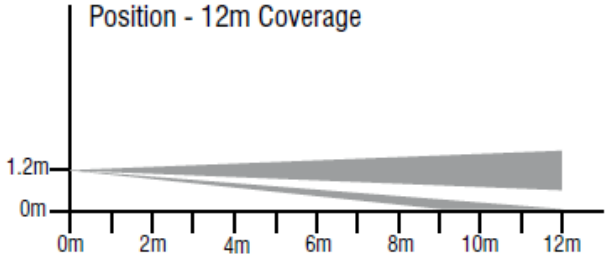
To adjust the range of the detector, rotate the circular section shown until the desired range is shown in the window.

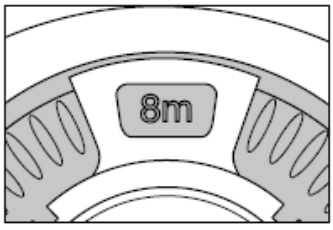
Note: Range can vary due to environmental conditions. To reduce the risk of false alarms always select the lowest range possible for the installation. Specified ranges are valid for nominal 1.2m mounting height.

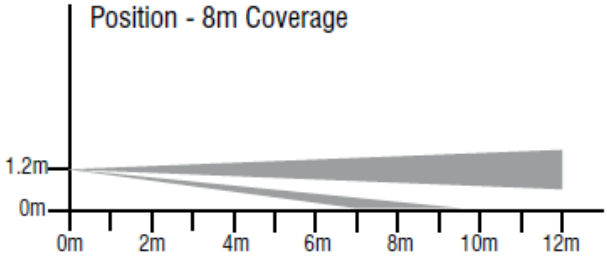
Selected Range

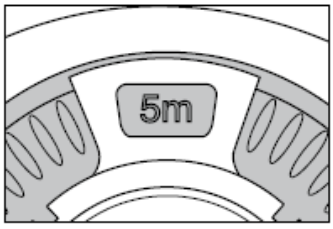
Side View

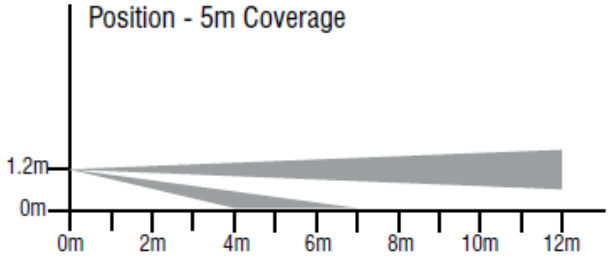


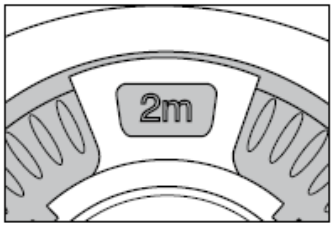


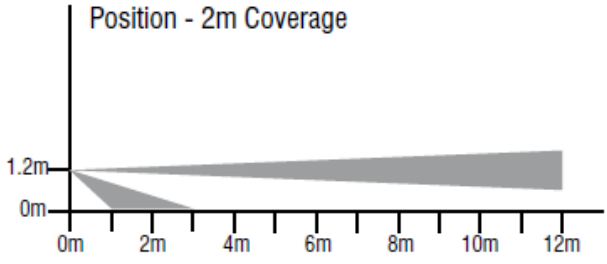






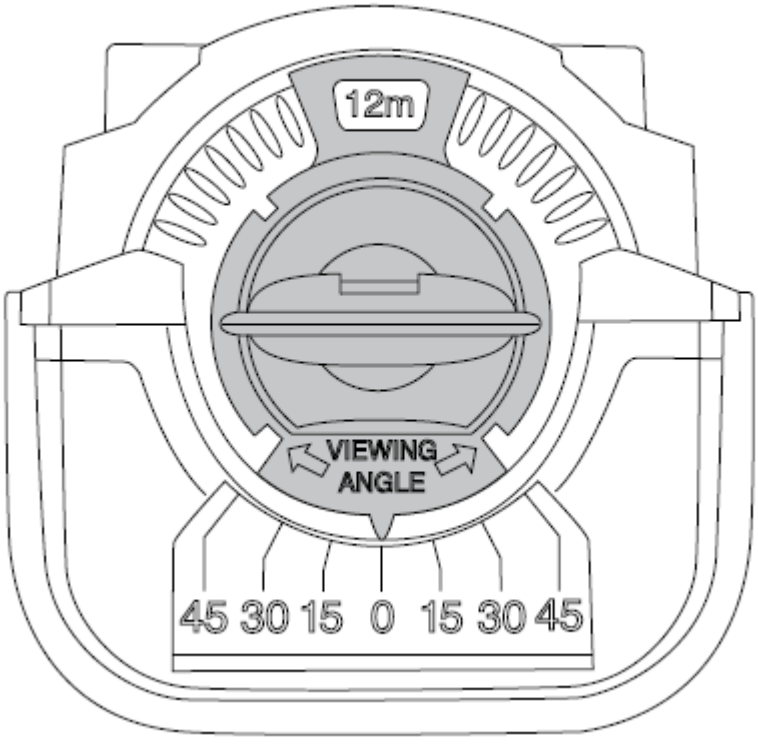


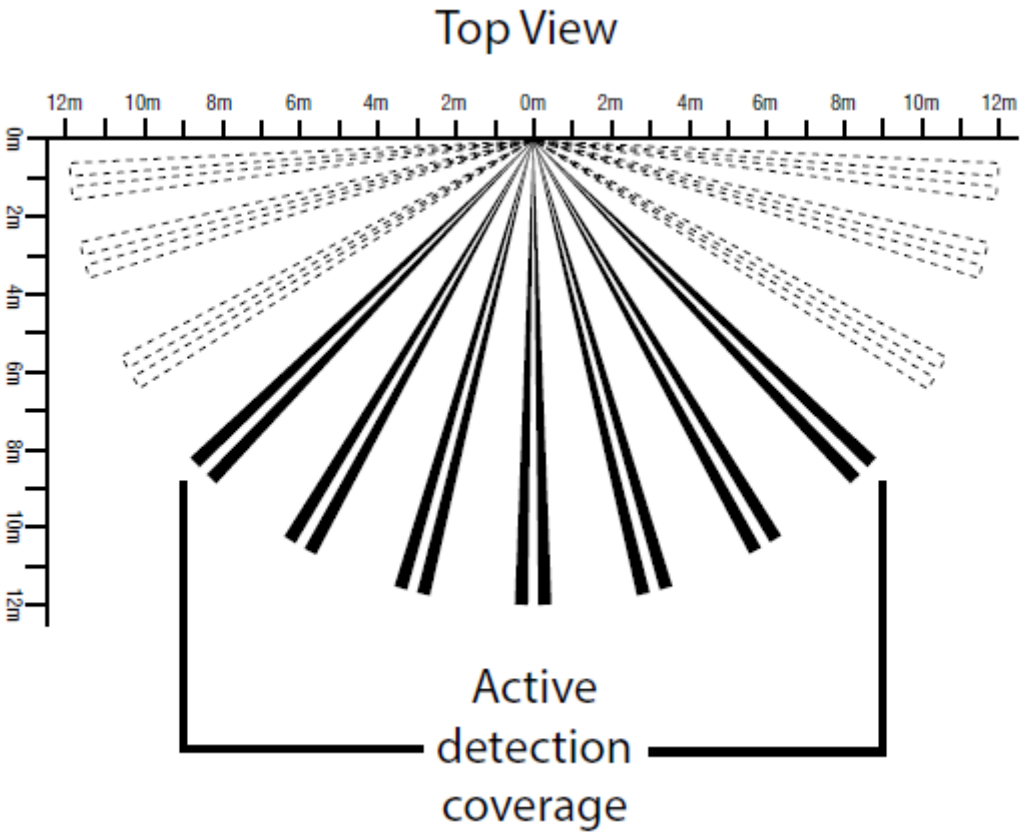


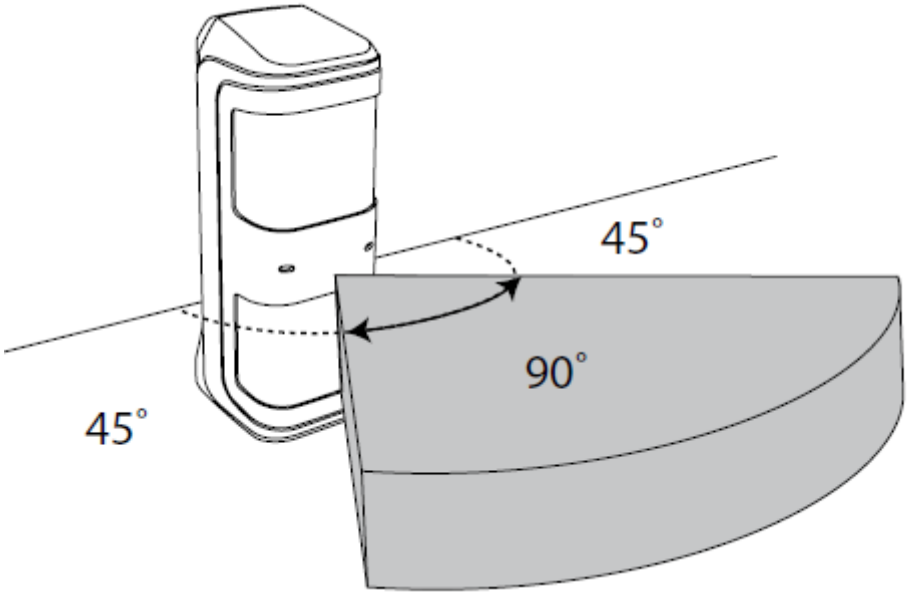


16.0 Coverage Area

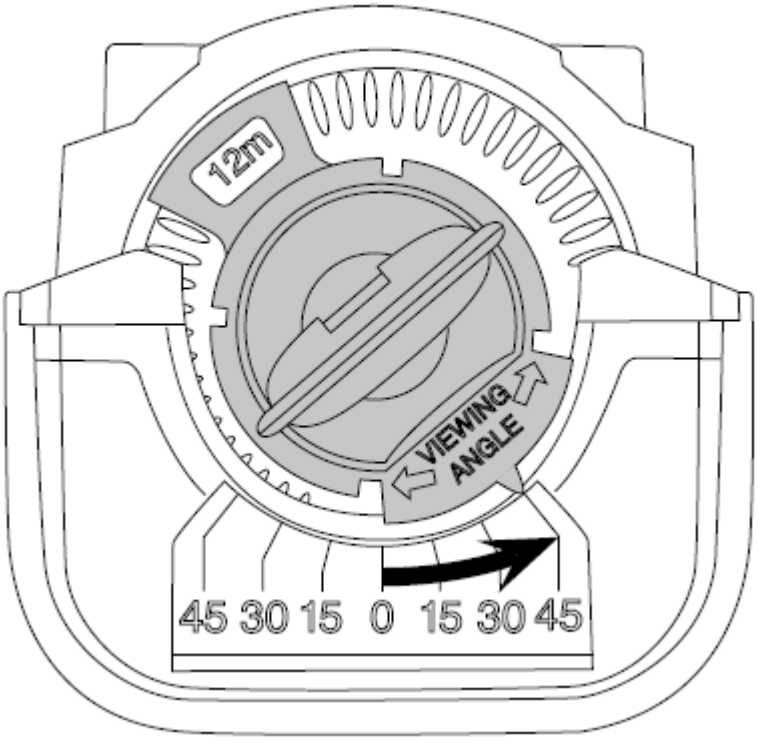
Bottom of head unit

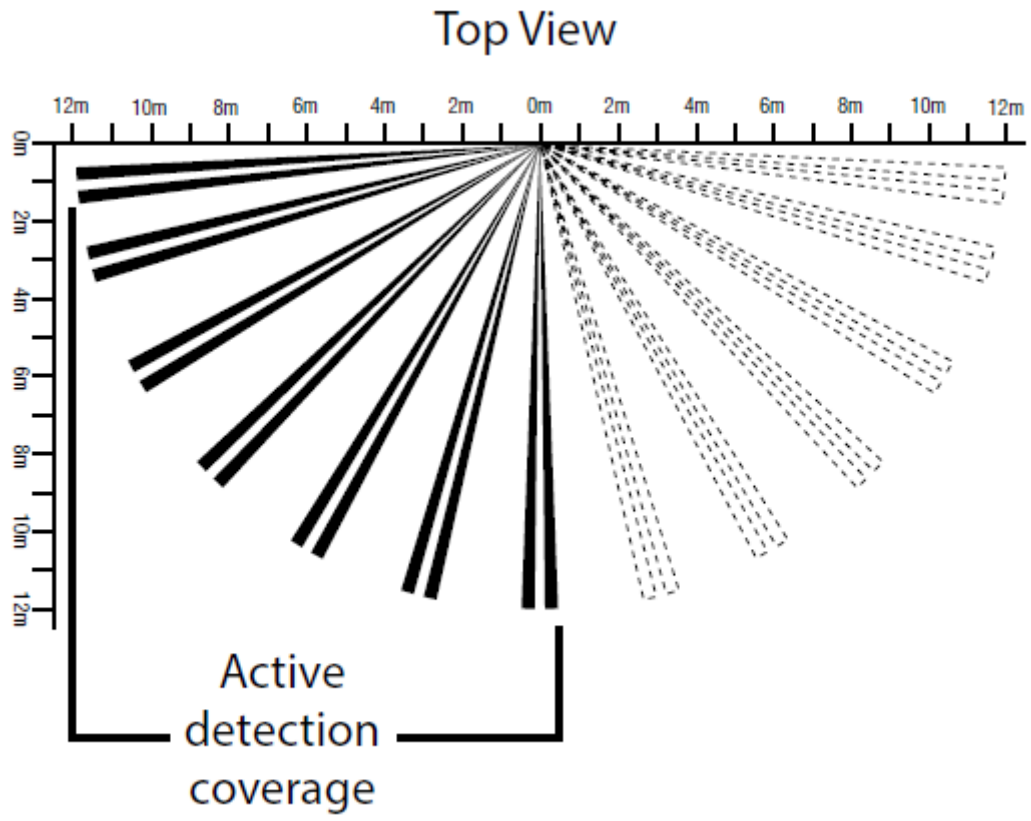


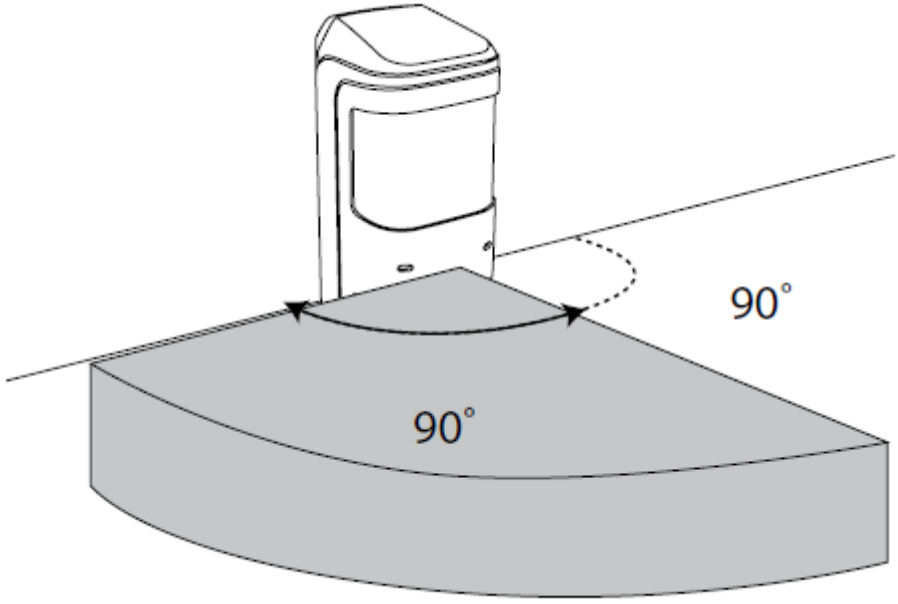

Top View
12m
10m
8m
6m
4m
2m
0m
2m
4m
6m
8m
10m
12m
0m
2m
4m
6m
8m
10m
12m
Active
detection
coverage


45°
90°
45°

Bottom of head unit




Top View
12m
10m
8m
6m
4m
2m
0m
2m
4m
6m
8m
10m
12m
0m
2m
4m
6m
8m
10m
12m
Active
detection
coverage


90°
90°

Walk-testing

With the range, sensitivity, coverage and pulse count set as desired, enable the LEDs and walk-through the area

of protection. Confirm the LEDs light by using the walk test mode (shown in Premier Elite wireless expander

instructions).

LED Status

Left LED on: Device is attempting to learn to a new receiver.

Alternate LED’s flash every second: Device connected to receiver and PIR in warm up.

Both LED’s on at same time: Indicates PIR detection only in walk test mode from the panel.

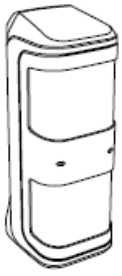
17.0 Specification & Standards

Specifications	
Mounting Height:	1.0 - 1.4m, 1.2m nominal
Supply Voltage:	3 VDC (2 x 1.5 VDC AA Lithium Batteries)
Battery Life	Up to 4 years
Current Drain (typical):	70µA
Detection Method:	Dual, non-overlapping, digital PIR
Range:	12m max. Adjustable to 8m, 5m and 2m
Tamper Detection:	Wall and case. Sealed non-mechanical switch.
Start Up Time:	60 secs
Waterproof Coating:	Conformal

Standards	
EMC:	EN 55022: Class B. EN50130-4:2011. EN61000-6-3 :2011
R&TTE:	EN300 220-2 V2.4.1
Environmental:	IP65
Frequency Band:	868.0 - 868.6 MHz
Receiver:	Category 1, Class 2
Receiver LBT (Listen Before Talk)	Yes
Transmitter Duty Cycle:	868MHz<1%
Low Voltage Signal:	2.85V

18.0 Physical Specifications

-35°C (-31°F) to
+60°C (+140°F)



-35°C (-31°F) to
+55°C (+131°F)

580g (20.5oz)
approx.

18.1 Regulatory Information

Supplier: Texecom Ltd, St. Crispin Way, Haslingden, Lancashire, BB4 4PW, UK.

Texecom declares that this product complies with the requirements of the following directives:

2014/53/EU RE Directive 2014/30/EU EMC Directive

2014/35/EU LV Directive 2011/65/EU ROHS Directive

The product therefore meets all the requirements to enable it to be CE marked.

Weee Directive: 2012/19/EC (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted

municipal waste in the European Union. For proper recycling, return this product to your local supplier

upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more

information see: www.recyclethis.info.

Maintenance: Test yearly by the installer

Warranty: 2 year replacement warranty (exluding batteries)

Security grade: EN Grade 2 Environmental class: Class IV Standards: EN50131-5-3

Disclaimer: The Premier External TD-W is not a complete alarm system, but only its part. Therefore Texecom does not

accept any responsibility or liability for any damage that is claimed to be a result of an incorrect functioning of the

Premier External TD-W detector. Texecom reserves the right to change the specification without a prior notice.

Battery Safety

• Do not heat

• Do not charge

• Do not disassemble

• Do not throw into a fire

• Do not short circuit

• Replace with 2 x 1.5 VDC AA Lithium Batteries

• Always observe local regulations when disposing

of a battery

• Detector will transmit low battery warning when

battery needs replacing

The Premier External detector is protected by UK &

International Designs.

Premier is a Trademark of Texecom Ltd.

 2015 Texecom Ltd. www.texe.com

MADE IN ENGLAND

Ref: INS647-3

18.2 Installation Instructions- Premier Elite OH-W

Fig.1

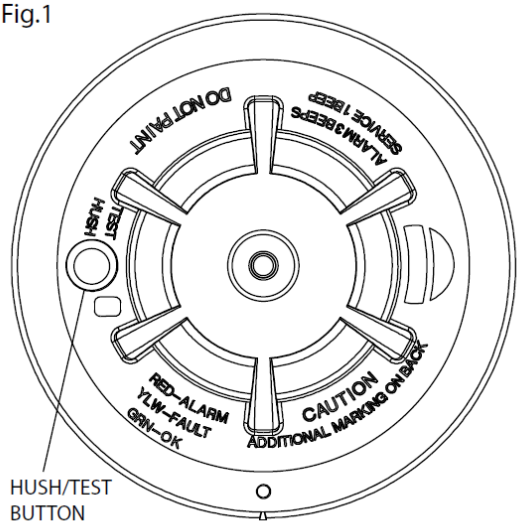


Fig.2

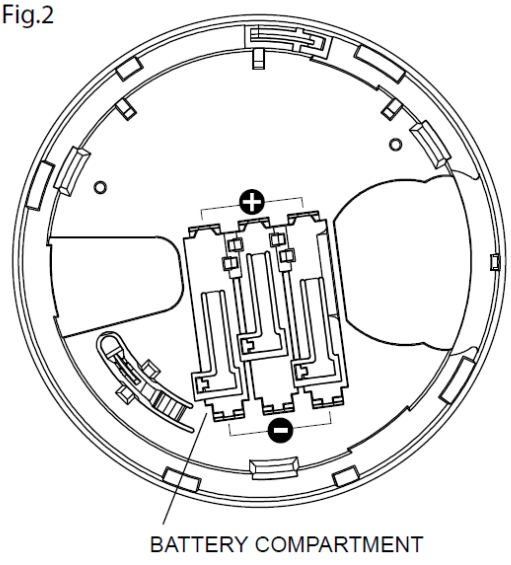


Fig.3

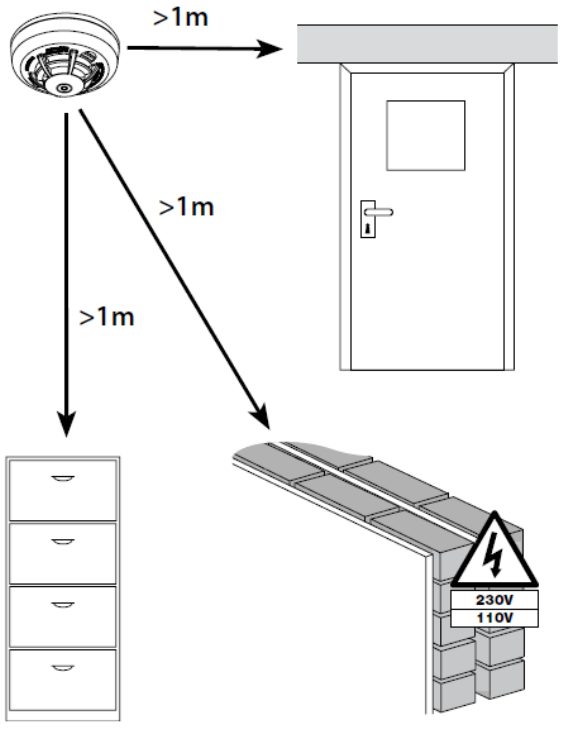
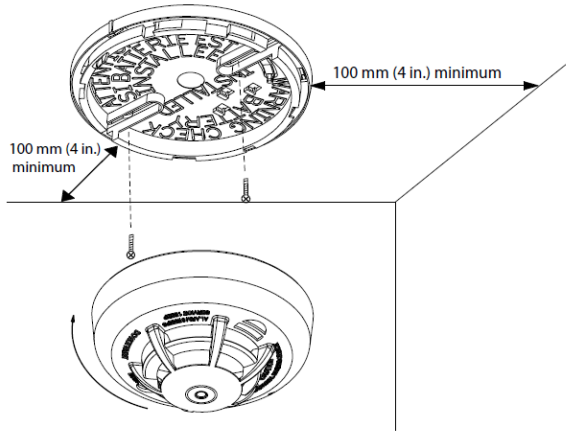


Fig.4



Contents: Wireless optical and heat fire detector (Premier Elite OH-W), Pack of screws and fixings3 AAA Duracell

Procell MN2400 batteries (1.5

V1100mAh) or equivalent.

The Premier Elite OH-W contains a sounder that generates the ASHI s3.41 temporal 3 pattern in an alarm

condition.

In alarm, a message is also sent to the control panel and the alarm's zone type and name are displayed at the

panel. The message is relayed out to any other configured Premier Elite OH which will also sound a warning

alarm. This can be used for area-wide notification of the alarm. To disable this feature, change the device mode

of the sensors from 'device specific' to 'always awake'. Tricoloured LED (red, yellow, green) and a sounder on the

alarm provide local visual and audible indication of the alarm's status.

After power-up has completed and the alarm is functioning normally, the green LED blinks every 12 seconds.

Alarm Trouble: When the alarm has a general fault, the yellow LED blinks once every four seconds and there

is a chirp every 48 seconds.

Alarm Dirty Feature: When the alarm has been contaminated, the yellow LED blinks once every 8 seconds and

there is a chirp every 48 seconds.

Low Battery Detection: The Premier Elite OH-W is powered by 3 AAA batteries. The alarm regularly checks for

a low battery. If a low battery is detected, the transmitter sends a low battery message to the control panel,

that displays the alarm's ID at low battery. In addition, the yellow LED of the alarm blinks every 12 seconds.

The alarm's sounder chirps every 48 seconds (yellow LED continues to blink) until the batteries are replaced.

Pressing the hush button (See Fig.1) silences the chirping for 12 hours if no other trouble conditions exist.

Replace the batteries when the chirping begins.

If you are experiencing low battery issues, check to make sure that you have the correct batteries installed

(3 AAA Duracell Procell MN2400).

Inserting and Replacing Batteries

1. Remove the alarm from its base by twisting the it counter-clockwise. Remove and dispose of the batteries

according to your local regulations.

2. To ensure proper power-down sequence, wait a minimum of 20 seconds before inserting new batteries.

3. Insert 3 AAA Duracell Procell MN2400 batteries in the battery compartment (See Fig.2).

4. Reinstall the alarm onto the mounting base by turning the alarm clockwise until the mating marks align.

5. After the power-up sequence, the green LED should blink about once every 12 seconds to indicate normal

operation. If the batteries are not inserted correctly, the alarm will not operate and the batteries may be

damaged. If the alarm does not power-up, check for correct battery insertion and for fully charged batteries.

6. Whenever the batteries are replaced always test the operation of the alarm's sounder by pressing the test

button (See Fig.1).

Battery Safety	
• Do not throw into a fire	• Do not heat
• Do not short circuit	• Do not charge
• Replace only with same type (AAA)	• Do not disassemble
• Always observe local regulations when disposing of a battery	• Detector will transmit low battery warning when battery needs replacing

Learning the device to the system

Do not insert the batteries until you are ready to learn the device to the system. Battery connection will

automatically start the learning sequence. Device reverts back to programmed network if receiver is not in

learn mode (when replacing battery). For wireless connectivity, detailed programming and system set-up

instructions please refer to the compatible Ricochet technology enabled Premier Elite wireless expander/

wireless control panel instructions. The Premier Elite OH-W is only compatible with Premier Elite control panels

V2.11 and above.

Where NOT to install the Alarm

• Directly above a sink, cooker, stove or oven

• Do not install close to large metal objects or mains wiring (See Fig.3)

• Do not locate alarm within 1.5m of any cooking appliance

• Next to a door or window that would be affected by drafts (extractor fan)

• Outside

• In or below a cupboard

• Where air flow would be obstructed by curtains or furniture

• Where dirt or dust could collect and block the sensor

• Where it could be knocked, damaged, or inadvertently removed

• Where the ambient temperature is below 4.4 C or where it exceeds 37.8 C

Mounting the Alarm (See Fig.4)

1. Install the mounting base on the ceiling or on the wall. Use the 2 screws and anchors provided. Maneuver the

base so the screws are at the elbow of the screw slots and secure.

2. Fit the alarm inside the base by aligning it over the base as shown (alarm's alignment notch should be slightly

offset from the mounting base tamper release tab), then turn the alarm clockwise until the alarm clicks into

the base.

Testing

Test alarm sounder, LEDs and transmitter:

1.Hold the Test button for 3 beeps (approximately 6 seconds).

2.Release the Test button.

3.Once released, the product will continue to beep 3 more times.

4.The Test button is to test the sounder on the detector only.

Please note: No signal will be transmitted back to the control panel.

Smoke Test

Hold a cotton wick at the side of the alarm and gently blow smoke through the alarm until the smoke triggers

the alarm. You can also use smoke aerosol.

Direct Heat Test (Use Hair Dryer). Direct heat toward the alarm. Hold the heat source about 30cm from the

alarm to avoid damage to the plastic. The alarm resets only after it has time to cool.

If an alarm fails any of these tests, see Maintenance for how to clean the alarm.

Maintenance

Clean the alarm once a year. To clean the alarm, remove it from the mounting base. You can clean the interior

using compressed air or a vacuum cleaner. Blow or vacuum through the

openings around the perimeter of the

alarm. The outside of the alarm can be wiped with a damp cloth. After cleaning, test the alarm by pushing the

Test button. If cleaning does not restore the alarm to normal operation you need to replace the alarm.

Standards	
Alarm Systems:	EN14604, EN50131-5-3, EN50131-1, PD6662:2010, Grade 2 Class II
EMC:	EN50130-4: ETSI EN301
R&TTE:	ETSI EN300-220
Environmental:	EN50130-5
Frequency Band: (See product label)	868.0 - 868.6 MHz 866.0 - 866.6 MHz 433.05 - 434.79 MHz
Receiver:	Category 1, Class 2
Receiver LBT (Listen Before Talk)	Yes
Transmitter Duty Cycle	868MHz<1%, 866MHz<1%, 433MHz<10%
Low Voltage Signal	2.85V
Operating Voltage	3V

Specifications	
Unique ID codes	Over 1 billion
Supervisory Interval	15 minutes
Spacing rating	21m
Audible Signal	85dBA min. in alarm
Sensitivity	5 - 3.5%/foot
Max current	50mA
Alarm Current	20mA
Supervisory Current	25 uA
Battery Life	Up to 1.5 years
Operating temp.	4.4˚C to 37.8˚C
Dimensions	125mm x 63mm high
Relative humidity	Max. 90%
Weight (Inc Batteries)	243g
Warranty	2 years (excluding batteries)

Certificate Number: FM 35285

Ref: INS581

18.3 What is carbon monoxide?

What is carbon monoxide? Carbon monoxide (CO) is a highly poisonous gas that has no taste, colour or smell.

Potential Sources of CO

- Wood-burning stoves
- Gas boilers and fires
- Gas Hobs
- Oil and coal burning appliances
- Portable gas heaters

- Blocked flues and chimneys
- Fumes from integral garages
- Barbecues

This CO alarm is no substitute for proper maintenance of your appliances.

Carbon monoxide can be produced from poorly burning appliances or from blocked flues and chimneys.

If your alarm has sounded and you have ventilated the room the CO may have dispersed before help arrives. It is crucial that the source of CO is determined and appropriate maintenance carried out.

Carbon monoxide is a cumulative poison meaning long-term exposure to low levels may cause symptoms.

The Premier Elite CO-W is time-weighted - the higher the level of CO, the sooner it will alarm.

18.4 Alarm Levels as defined by EN50291-2010

The table below shows the response times at which the Premier Elite CO-W alarm will sound;

The table below shows the effects of different levels of CO poisoning on the body:

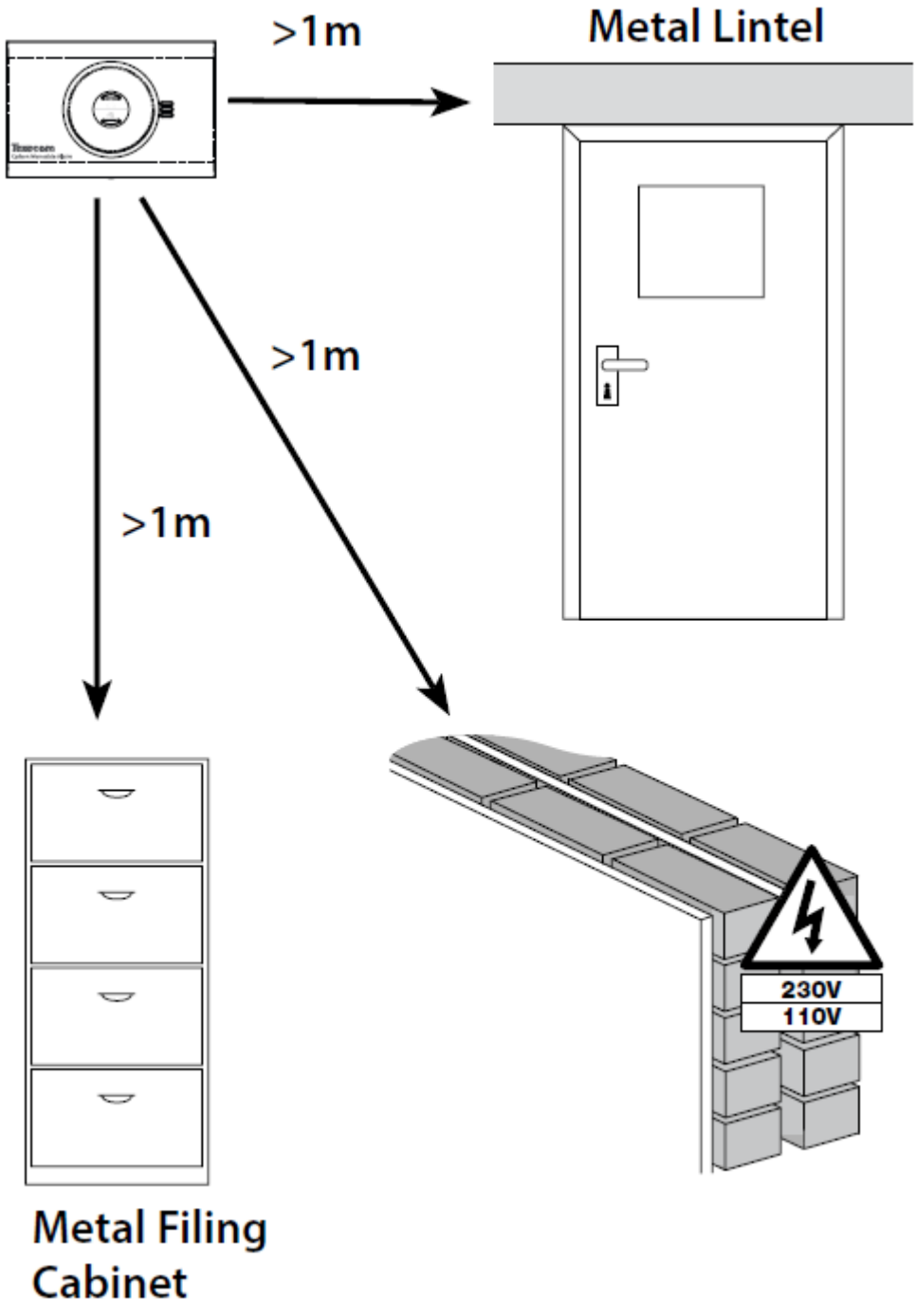
18.5 Mounting locations

Recommended locations	Not recommended
Install the alarm at a horizontal distance of between 1m and 3m from fuel burning appliances.	Do not install next to a door, window, extractor fan or air vent.
Away from draughts, such as doors and windows	Do not wall-mount close to obstructions (e.g. behind curtains, shelving or furniture)
Within hearing distance of bedrooms.* If a heating appliance is in the bedroom place the alarm at sleeping height	Do not fit in dusty, dirty or greasy areas (e.g. garages or workshops)
If wall-mounting, install at eye-level (approx 1.5m), and at least 30cm from adjoining walls or ceiling	Do not wall-mount within 30cm of the ceiling as this is a "dead air" space
If free-standing, the unit should be placed no more than 1 metre from the ground (to avoid permanent damage in case accidentally knocked)	Avoid humid (bathrooms), cold (< 4°C) or hot (>40°C) areas and away from sinks

It is recommended that at least one Premier Elite CO-W carbon monoxide alarm is installed on each level of

the home.

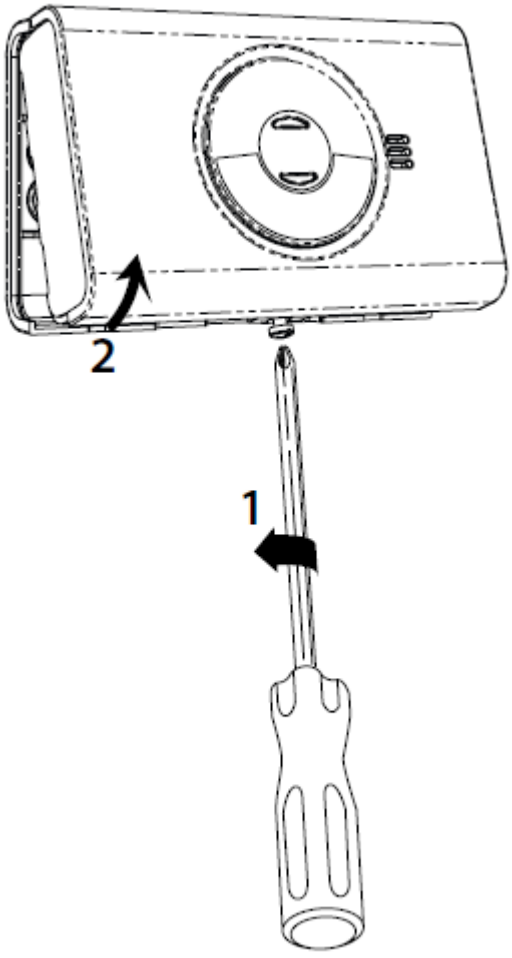
18.6 Mounting location when connecting to alarm system


>1m
Metal Lintel
>1m
>1m
230V
110V
Metal Filing
Cabinet

18.7 Learning the device to the alarm system (optional)

The CO-W operates either as a stand alone alarm or it can be connected to a Texecom Premier Elite wireless alarm system.

Do not insert the batteries until you are ready to learn the device to the system. Battery connection will automatically start the learning sequence. Device reverts back to programmed network if receiver is not in learn mode (when replacing battery). For wireless connectivity, detailed programming and system setup instructions please refer to the compatible *Ricochet* technology enabled Premier Elite wireless expander/ wireless control panel instructions. The Premier Elite CO-W is only compatible with Premier Elite control panels V3.01.02 and above. The CO-W has a tamper detection facility that will report to the Texecom alarm panel when the product has been opened.



1. Unscrew the screw on the underside of the detector.

2. Un-clip the front of the detector from the backplate.

18.8 Installing the detector- wall- mounting

NOTE: THIS ALARM MUST BE INSTALLED BY A COMPETENT

PERSON AND IS TO BE INSTALLED ACCORDING TO THESE

INSTRUCTIONS

1. Drill two holes in a wall 9cm apart (you may wish to use

the backplate for guidance).

2. Insert the two rawl-plugs, that are supplied, into the holes.

3. Insert the two screws as supplied into the holes ensuring

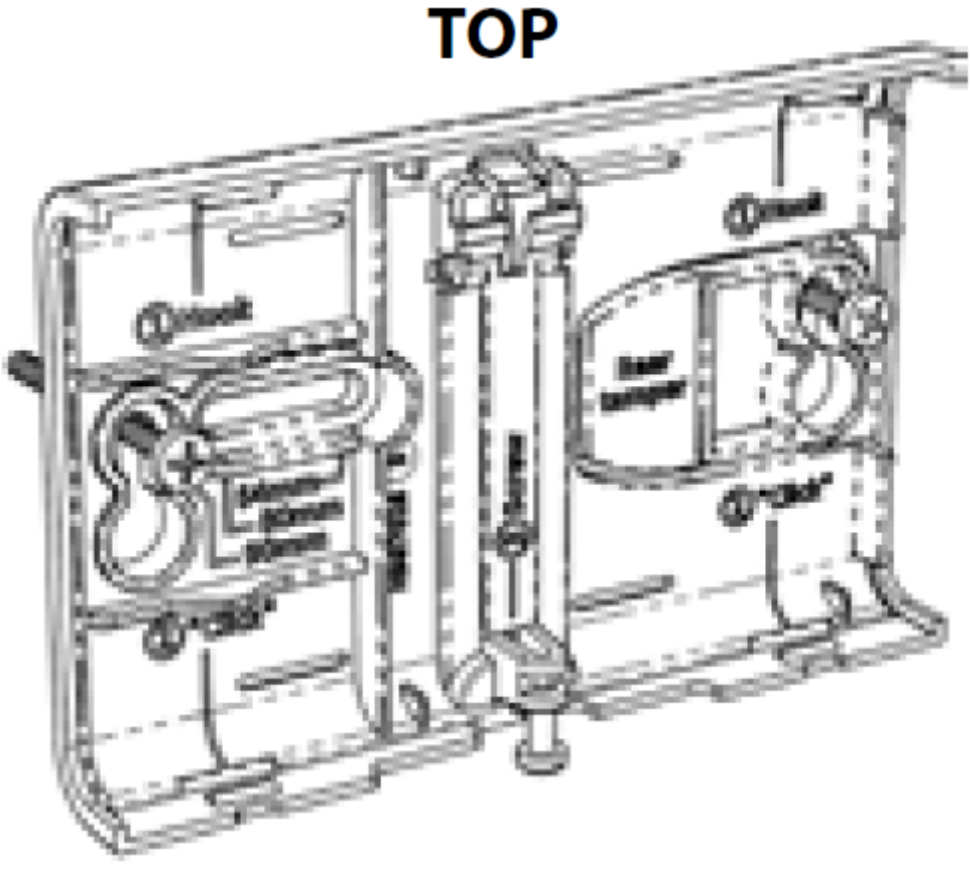
enough of the screw s ticks out of the wall (approx. 8mm).

4. Hook the rear over the screws (as shown below).

5. Tighten screws.

6. Hook in and clip on the front of the detector.

7. Tighten screw.



18.9 Installing the detector- free standing

NOTE: THIS ALARM MUST BE INSTALLED BY A COMPETENT

PERSON AND IS TO BE INSTALLED ACCORDING TO THESE

INSTRUCTIONS

1. Lift out the stand, on the back of the detector, from the

bottom and click into place (as shown below).

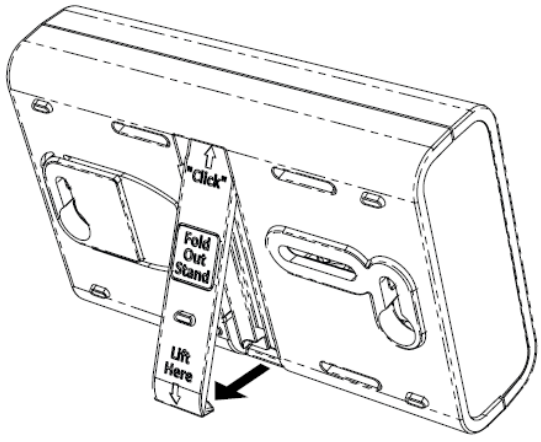
2. Position the detector no more than 1 meter from the floor

(to minimize the risk of the detector being permanently

damaged should it be knocked to the floor from a greater height).

3. Make sure the detector is in the upright position and not

lying flat on the surface.



18.10 Battery installation/replacement

Remove the batteries from the pack and insert them into the

battery compartment. Make sure that you fit the batteries

in accordance with the polarity markings (+ or -) within the

battery compartment.

9. Start-up sequence

The green light flashes every 2 seconds for the first minute.

During this time the detector will perform a self-test. After

this, the detector is working normally and the green light

will flash every minute to indicate it has power. DO NOT

PUSH THE TEST BUTTON DURING THIS FIRST MINUTE.

10. Low battery/fault sequence

The detector will emit a two-tone chirp every minute if the battery needs replacing or a fault has been detected

within the unit. The detector is fully able to determine that it is working correctly. If, after fitting new batteries, the

two-tone chirp continues then replace the unit.

Add installation date

11. Test button sequence

The test button should be pressed every week. The detector

will emit short chirps for about 5 seconds, and the green

light will flash every 10 seconds for 4 minutes. During this

time the detector will be more sensitive to detection of

CO gas and will alarm at a lower concentration level. The

detector will also generate a fault signal (two tone chirp

every minute) if a fault is identified on the sensor. Further

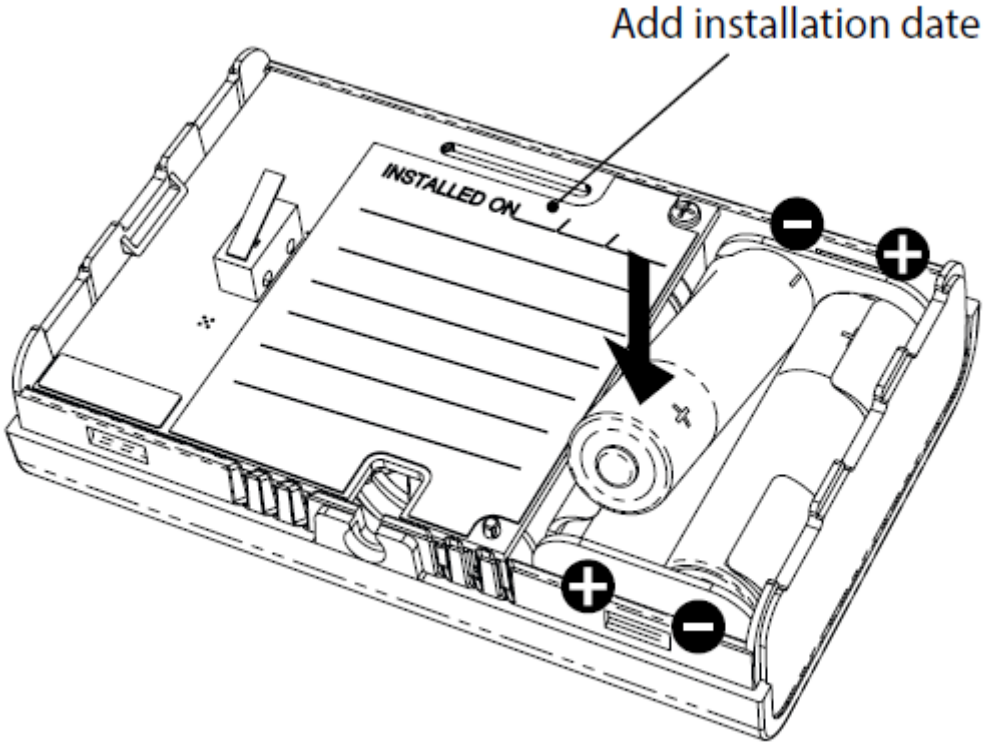
activation of the test button is disabled until the four

minutes have expired.

12. Alarm sequence

On detecting an unsafe level of CO, the detector will sound

0.5s on, 0.5s off. The red light will flash once every two seconds



18.11 Start-up sequence

The green light flashes every 2 seconds for the first minute.

During this time the detector will perform a self-test. After

this, the detector is working normally and the green light

will flash every minute to indicate it has power. DO NOT

PUSH THE TEST BUTTON DURING THIS FIRST MINUTE.

18.12 Low battery/fault sequence

The detector will emit a two-tone chirp every minute if the battery needs replacing or a fault has been detected

within the unit. The detector is fully able to determine that it is working correctly. If, after fitting new batteries, the

two-tone chirp continues then replace the unit.

18.13 Test button sequence

The test button should be pressed every week. The detector

will emit short chirps for about 5 seconds, and the green

light will flash every 10 seconds for 4 minutes. During this

time the detector will be more sensitive to detection of

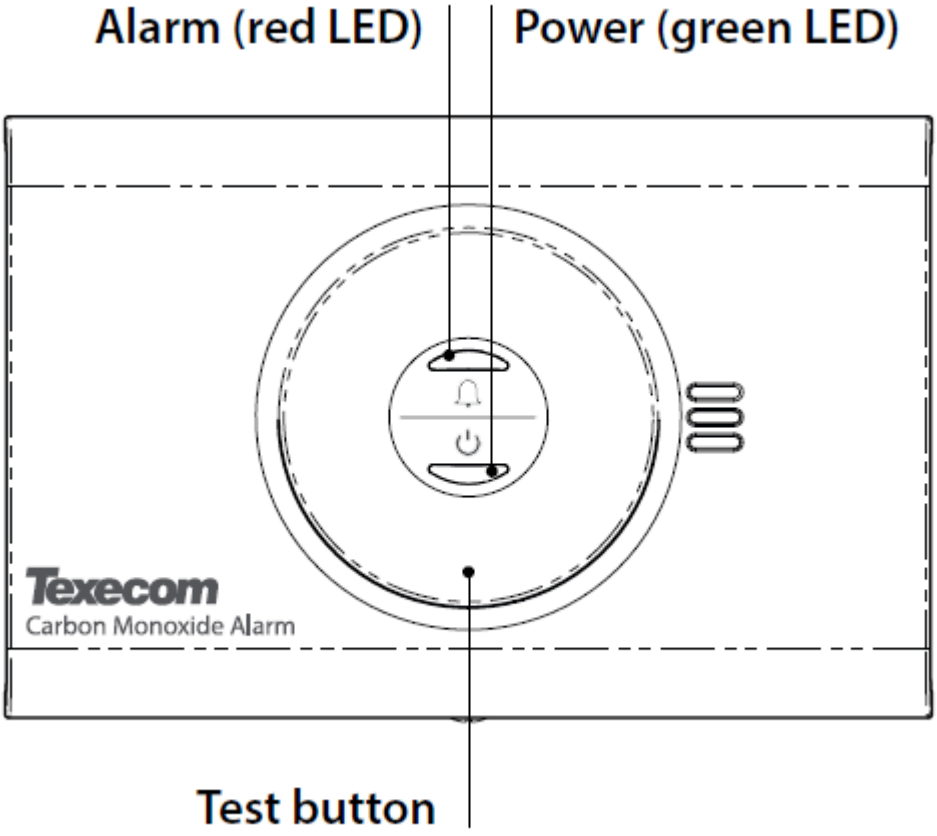
CO gas and will alarm at a lower concentration level. The

detector will also generate a fault signal (two tone chirp

every minute) if a fault is identified on the sensor. Further

activation of the test button is disabled until the four

minutes have expired.



18.14 Alarm sequence

On detecting an unsafe level of CO, the detector will sound

0.5s on, 0.5s off. The red light will flash once every two

seconds.

On detecting an unsafe level of CO, the detector will sound

0.5s on, 0.5s off. The red light will flash once every two

seconds.

18.15 What to do in the event of an alarm

WARNING! Activation of the alarm indicates the presence of Carbon Monoxide

(CO) which can kill you.

If the alarm sounds (0.5 seconds on, 0.5 seconds off and flashing red light):

• Keep calm and open the doors and windows to ventilate the property.

• Stop using all fuel burning appliances and ensure, if possible, that they are turned off.

• Evacuate the property leaving the doors and windows open.

• Get medical help immediately for anyone suffering the effects of carbon monoxide poisoning (headache,

nausea), and advise that carbon monoxide poisoning is suspected.

• Ring your gas or other fuel supplier on their emergency number; keep the number in a prominent place.

• Write your fuel supplier's emergency number here (see below for more useful numbers):

•Do not re-enter the property until the alarm has stopped. When exposed to fresh air it can take up to 10

minutes for the sensor to clear and the alarm to stop depending on the level of carbon monoxide detected.

•Do not use the appliances again untill they have been checked by an expert.In the case of gas appliances the engineer must be registered.

National Gas Emergency Service: **0800 111 999** (24 Hours)	Gas Safe Register: **0800 408 5500**

18.16 Maintenance of your alarm

Test every week.

• Vacuum regularly to remove dust.

• Keep away from solvents or detergents and nappy buckets.

• Avoid spraying air-freshener, hair-spray near the alarm.

• Do not paint the alarm. If decorating or using adhesives close to the alarm, remove it temporarily.

• Annually check the installation date to see if the it's within sensor life (10 years). If not, replace the unit.

The following substances can affect the sensor and cause false alarms:
Methane, Propane, Iso-butane, Iso-propanol, Ethylene, Benzene, Toluene, Ethyl acetate, Hydrogen Sulphide, Hydrogen, Sulphur Dioxide, alcohol based products, paints, thinners, solvents, adhesives, hair-sprays, aftershaves or perfumes and some cleaning agents.

18.17 Warnings & important notices

WARNING: THIS CARBON MONOXIDE ALARM IS NOT A SUBSTITUTE FOR INSTALLING AND

MAINTAINING AN APPROPRIATE NUMBER OF SMOKE ALARMS IN YOUR HOME. THIS ALARM

WILL NOT SENSE SMOKE, FIRE, OR ANY POISONOUS GAS OTHER THAN CARBON MONOXIDE.

FOR THIS REASON YOU MUST INSTALL SMOKE ALARMS TO PROVIDE EARLY

WARNING OF FIRE

AND TO PROTECT YOU AND YOUR FAMILY FROM FIRE AND ITS RELATED HAZARDS.

WARNING: THIS PRODUCT IS INTENDED FOR USE IN ORDINARY INDOOR RESIDENTIAL AREAS. IT IS NOT

DESIGNED TO MEASURE COMPLIANCE WITH COMMERCIAL AND INDUSTRIAL STANDARDS. THIS ALARM IS

NOT SUITABLE FOR INSTALLATION IN HAZARDOUS LOCATIONS . INDIVIDUALS WITH MEDICAL PROBLEMS

MAY CONSIDER USING WARNING DEVICES WHICH PROVIDE AUDIBLE AND VISUAL SIGNALS FOR CARBON

MONOXIDE CONCENTRATIONS UNDER 30 PPM.

IMPORTANT: THIS CARBON MONOXIDE ALARM IS DESIGNED TO DETECT CARBON MONOXIDE FROM ANY

SOURCE OF COMBUSTION INCLUDING IMPROPER OR MALFUNCTIONING APPLIANCES. THE INSTALLATION OF

THIS DEVICE SHOULD NOT BE USED AS A SUBSTITUTE FOR PROPER INSTALLATION, USE AND MAINTENANCE OF

FUEL BURNING APPLIANCES INCLUDING APPROPRIATE VENTILATION AND EXHAUST SYSTEMS.

WARNING: THIS ALARM WILL NOT WORK WITHOUT POWER. THIS ALARM REQUIRES A CONTINUOUS SUPPLY

OF POWER.

IMPORTANT: IF ANY FAULT SIGNALS OCCUR, CONTACT THE MANUFACTURER OR SUPPLIER AND DO NOT

CONTINUE USING THE ALARM.

WARNING: TAMPERING OR MODIFYING THIS DEVICE MAY RESULT IN THE PRODUCT MALFUNCTIONING AND

NOT DETECTING CO GAS

WARNING: THE PRODUCT MAY NOT PREVENT THE CHRONIC EFFECTS OF CARBON MONOXIDE EXPOSURE AND

THE APPARATUS WILL NOT FULLY SAFEGUARD INDIVIDUALS IDENTIFIED AT SPECIAL RISK

Specifications	
Supervisory Interval	15 minutes
Max current	100 mA
Alarm Current	70 mA
Supervisory Current	60 uA
Battery Life	4 years
Sensor Life:	10 years from date of installation.
Batteries:	2 x 1.5V Alkaline batteries (Duracell Plus Power MN1500)
Alarm Sound Level:	> 85 dB(A) at 1m
Operating temp.	-5˚C to 55˚C
Relative humidity	10 - 90% Non-condensing
Dimensions	111mm(W) x 72mm(H) x 31mm(D)
Weight (Inc Batteries)	150 g
Warranty	2 years (excluding batteries)
TYPE No.	GBYA1000

Standards	
Alarm Systems:	EN50131-5-3, EN50131-1
EMC:	EN50130-4: ETSI EN301
R&TTE:	ETSI EN300-220
Environmental:	EN50130-5 Class II
Frequency Band:	868.2 to 868.6 Mhz
Receiver:	Category 1, Class 2
Receiver LBT (Listen Before Talk)	Yes
Transmitter Duty Cycle	868MHz<1%
Low Battery Signal	2.4V
Operating Voltage	3V