Installation Manual

Premier 8XP-W & Premier 32XP-W

INS467-2

CE

Texecom
Wireless Security

1. Contents

1. Contents **2**

2. Premier 8XP-W & 32XP-W **4**

3. Quick Start Guide **5**

4. System Design Considerations **6**

Learning Devices 6
Placing Devices 6

5. System Overview **7**

Mounting the Expander **9**
Wiring **9**
Selecting an Address **10**

6. Programming **11**

Premier 24 V8.24, Premier 48/88 & 168 V8.15 Firmware & later **11**
Option Switch Settings 11
Configuring Radio devices 11
Deleting Devices 12
Premier 24 V7.00-V8.23, 48/88/168 V7.00 – V8.14, 640 V7.00-V8.15 ..... **13**
Option Switch Settings 13
Expander Settings 13
Premier SmartKey™ Status LED Indications 13
Deleting Devices 14
Premier 412/816 V11.10 & Later, Premier 832 V4.10 & Later **15**
Option Switch Settings 15
Expander Settings 15
Removing Detectors 16
Learning *Premier* ***SmartKey***™ 16
Removing *Premier* ***SmartKey***™ 18
Premier 412/816 V10.5 – V11.07 & Premier 832 V3.50.-.V4.07 ..... **19**
Option Switch Settings 19
Expander Settings 19
Premier SmartKey™ Status LED Indications 19
Removing Detectors 20
Learning *Premier* ***SmartKey***™ 21
Removing Premier ***SmartKey***™ 22
Learning Devices directly to the 8XP-W & 32XP-W **23**
Using the Engineers Keypad **24**
Device list 24
Update Devices 28
Walktest Mode 29
System Status 30

Device Status Indications 31

7. Modes of Operation 32

Commission Mode 32
Expander 32
Device Commission Mode 32
Device Specific Functions 32
Prestige XT-W & Prestige QD-W 32
ImpaqPlus-W 32
Impaq Contact-W 33
Walktest Mode 33
Control Panel 33
Expander 33
Engineers Keypad 33
RICOCHET™ Monitor 33

8. System Attributes 34

Polling 34
System Devices 34
Auto Mode 34
Always Awake 34
Premier SmartKey™ **35**
LED Indications 35
PA Activation 35
Enable/Disable Alarm Status LED's 35
Auxiliary Functions 36
Instant Disarm 36
Alarm Status LED's 36
Arm Fail Indication 37
Battery Considerations 38
Premier SmartKey™ 38
Low Battery Warning 38
Battery Maintenance 38
8XP-W & 32XP-W Power Loss 38

9. Specifications 39

Electrical 39
Standards 40
Warranty 40
Notes 41
Notes 42
Notes 43

2. Premier 8XP-W & 32XP-W

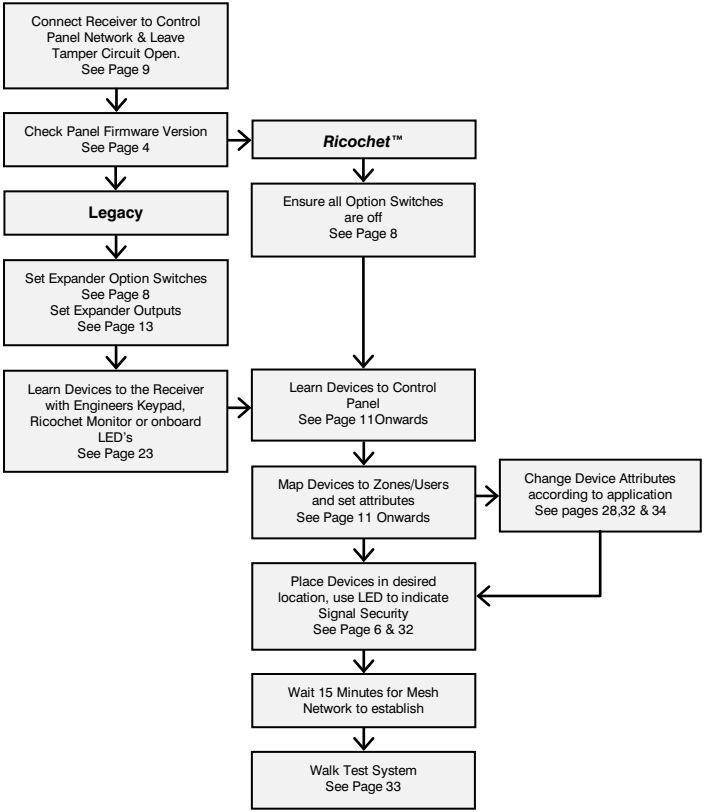
Texecom has developed a new method of wireless security signalling based on the concept of mesh networking. Mesh-networking is the process whereby every single wireless device is capable of receiving and retransmitting any signal from any other wireless device on the network. The size, scalability and range of the entire system are extended as wireless signalling is no longer limited by point-to point communications. The range of a ***RICOCHET™*** enabled wireless system is greater than previous systems, with multiple devices capable of relaying messages to and from even the most remote locations in a building. Each ***RICOCHET™*** enabled device provides signalling routes to and from Premier control panels. If the wireless communication between devices weakens, the ***RICOCHET™*** network 'self-heals' and automatically re-routes communications via alternate ***RICOCHET™*** enabled devices. The reliability of the wireless system increases as more ***RICOCHET™*** devices are installed. ***SignalSecurity***™ further enhances network reliability with each device already aware of the number of communication paths available to it.

The ***PREMIER 8XP-W*** & ***32XP-W*** expanders can be used on any premier control panel; however certain features and functions are dependent on the version of panel firmware as detailed in the table below. To determine the firmware version of your control panel press (Menu) 4 on the keypad.

NOTE *Firmware versions prior to those listed are* ***NOT*** *compatible.*

Control Panel	*Premier 8 XP-W & 32XP-W*	Legacy	*RICOCHET™*
Premier 412	1	V10.5 – V11.07	V11.10>
Premier 816	1	V10.5 – V11.07	V11.10>
Premier 816E	0	Not supported	
Premier 832	1	V3.5 – V4.07	V4.10>
Premier 24	1	V7.00 – V8.23	V8.24>
Premier 48	1	V7.00 – V8.13	V8.15>
Premier 88	1	V7.00– V8.13	V8.15>
Premier 168	1	V7.00 – V8.13	V8.15>
Premier 640	1	V7.00 – V8.15	Not Released

3. Quick Start Guide



4. System Design Considerations

To ensure correct setup and operation of the Wireless Network it is important that the following procedures are used when learning and placing devices.

Learning Devices

All devices should be learnt ***before*** they are placed in their final location. The expander should be in commission mode, please see page 32.This will ensure that they are registered on the receiver or control panel, and that Mesh Networks and routing are established correctly. Please refer to the relevant section in this document to Learn Devices to the system.

NOTE *Devices should be at least 30cm's away from the receiver when being learned.*

Placing Devices

Once all of the devices have been learnt, they will need placing in their desired location, this should be done by installing devices closest to the expander first and then working outwards so that the last devices installed are those furthest away from the expander.

Make sure to install devices with the expander in Commission mode. See page 32.

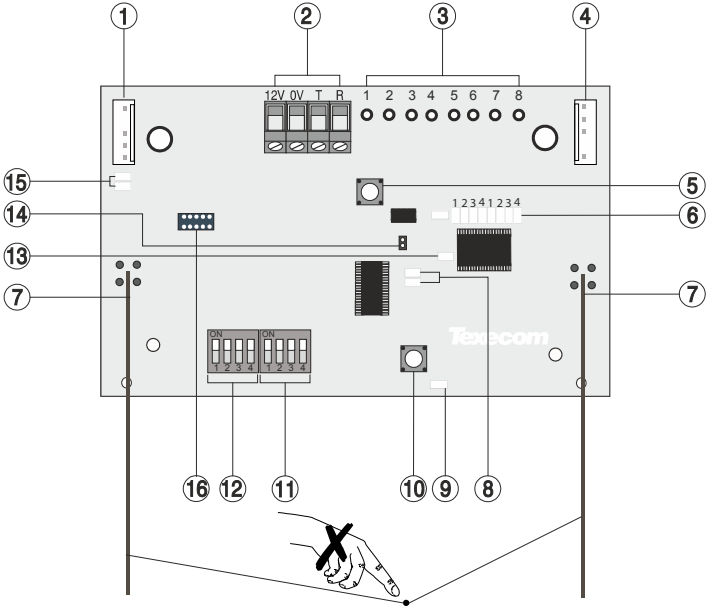
Devices also have a commission mode which will indicate a secure and valid path of communication to the receiver. See page 32.

NOTE *You should wait at least 15 minutes after installing the last device to make sure routing has been correctly established between all system devices.*

NOTE *For maximum reliability and system integrity avoid long and thin set-ups.*

NOTE *Devices are capable of hopping through up to two other devices, or a maximum of three hops.*

5. System Overview



1: Engineers Keypad Connection
An engineer's keypad (*Premier LCD* keypad and interface lead) can be temporarily plugged onto this connector to allow system programming and testing. (Functions dependent on Panel firmware version) Set the keypad address switches to all on.

2: Network Connection
The + and – terminals provide power whilst the T and R terminals are transmit and receive data.

3: For Future Use
4: Comm. Port Connection
Serial communications port for connecting the 8 XP-W & 32XP-W to a PC via PC Com/USB Com or Com IP for use with ***RICOCHET™ Monitor*** Software.

5: Lid Tamper
When open puts the system into commission mode and digitally attenuates the receiver signal by 6Db.

6: Programming LED's
Allows programming of devices directly to the receiver, in conjunction with the learn switch.

7: Antenna
RF Antenna.

8: Network LED's
Green LED = Data received by the expander from the panel Red LED = Data transmitted by the expander to the panel. *(The flash rate depends on the mode and RF activity)*

9: Heartbeat LED
Flashes steadily to indicate that the receiver is functioning correctly. If the light is ON or OFF all the time, then there could be a hardware problem.

10: Learn Switch
To be used with programming LED's to learn devices directly to the receiver.

11: Options Switch
Use to select the receiver functionality depending on panel firmware.

Switch 1 ON =firmware dependant, please see the relevant programming section.
Switch 2 ON = Legacy Mode
OFF = ***RICOCHET***™
Switch 3 ON = Impaq Contact-W Wired Input 2 will report as Tamper *(default)*
OFF = input 2 will report as an Alarm.
Switch 4 Walk test

12: Address Switch
Used to assign the address of the receiver on the premier network

13: RF LED
Flashes when transmitting or receiving RF data

14: Tamper Disable
Disables the lid and rear tamper

15: Engineer's Keypad LED's
Red LED flashes constantly, the flash rate increases when data is being transmitted.

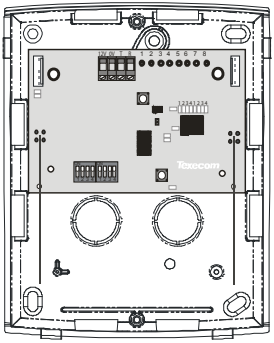
16: Flash Programming Port
Variant dependent, for flashing the expander with updated firmware.

Mounting the Expander

Remove each screw cap by inserting a flat bladed screwdriver into the slot and turning anti-clockwise, excessive force is **NOT** required. Remove both of the cover screws and put them in a safe place along with the screw caps. Gently pull the cover away from the base applying slight pressure to the sides at the top of the expander if required. The front cover should now be off.

Mount the expander using at least two appropriate countersunk screws (no larger than No. 8). A keyhole slot has been provided to assist mounting and aid levelling.

If required a screw should be placed into the knockout on the rear of the expander to enable the rear/wall tamper.



Wiring

It is strongly recommended that the system is completely powered down (mains and battery) before wiring the expander. Connect the expander to the control panel using 4-core cable as follows:

Expander	Control Panel	Description
+	+	+12V Supply
-	-	0V Supply
T	T	Transmit Data
R	R	Receive Data

The networks are made up of four terminals incorporating power and data. To ensure correct operation, all four terminals on the device must be connected to the corresponding terminals on the control panel or previous device.

Expanders can be connected using 4-core cable. However, it is recommended that 6 or 8-core cable is used as the spare cores can be used to 'Double Up' on the power connections if needed.

NOTE *Standard 7/0.2 alarm cable can be used for most installations. However, under certain conditions it may be necessary to use screened cable.*

Selecting an Address

Each expander must be assigned a different address using the DIL switches located on the PCB. The table below shows the expander addressing:

Address	DIL 1	DIL 2	DIL 3	DIL 4	
1	**On** or Off	Off	Off	Off	
2	Off	**On**	Off	Off	
3	Off	Off	**On**	Off	
4	Off	Off	Off	**On**	
5	**On**	Off	Off	**On**	
6	Off	**On**	Off	**On**	
7	Off	Off	**On**	**On**	
8	**On**	Off	**On**	**On**	

NOTE *Never set two expanders on the same network to the same address. Expanders are factory set to address 1.On legacy panels the expander will occupy 1 x Expander slot on the control panel, as well as the Network Receiver slot.*

6. Programming

It is highly recommended that you upgrade the Panel Firmware to the latest version to ensure full compatibility; however the system is backwards compatible as detailed in the table on page 4.

NOTE *When using the **Premier 8XP-W** it is only possible to learn devices to slots 1-8 on the expander. Slots 9-32 will still be shown in **Ricochet Monitor**, and on the keypad, however no devices can be learned to them.*

Premier 24 V8.24, Premier 48/88 & 168 V8.15 Firmware & later

Option Switch Settings
For this version of firmware option switches 1,2 & 4 should be OFF.

Configuring Radio devices
Up to 32 wireless devices of any combination can be learnt on to the system. The number of ***Premier SmartKey™*** is limited to the maximum number of users (i.e. 24 0n the ***Premier 48***).

NOTE *On the **Premier 8XP-W** the maximum number of devices including **Premier Smartkey™** is 8.*

Wireless devices can then be mapped on to the system along with conventional detectors.

The top line on the display shows the serial number of the device and also the status i.e. Active, Tamper etc.

The bottom line of the display shows the signal strength and also which zone/user the device is mapped to.

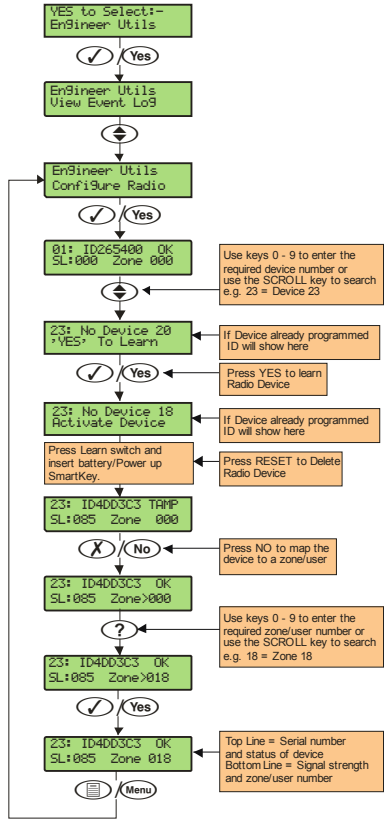
Signal strength should be greater than 30.

NOTE *Signal strength is only displayed when in commission mode. When not in commission mode the keypad will display 255.*

The signal range is between 0 and 99

NOTE *In the case of devices that are hopping the display on the panel keypad shows the average of the hopped signal strengths.*

Follow the instructions on the next page to learn devices to the system, once complete follow the instructions in the relevant control panel manual to programme zone type, attributes and user permissions. Place devices in their final location ONLY after they have been learned to the system.



Deleting Devices

To delete radio devices, select the device number to be deleted then follow the procedure for learning a new device but press the reset button on the keypad when prompted to activate device instead of pressing the learn switch and inserting the battery..

Premier 24 V7.00-V8.23, 48/88/168 V7.00 – V8.14, 640 V7.00-V8.15

Option Switch Settings

For V7.00-V8.11 of firmware switch 1 2 & 3 should be ON for all panels.

NOTE *For Versions prior to V7.40 on the Premier 24, Learned devices should be mapped to zones 9-24 only, it is not possible to map to Zones 1-8. This means the maximum number of devices excluding SmartKey™ is 15 with this version of firmware.*

For V 8.11 > of firmware only switches 2 & 3 should be ON.

Expander Settings
The expander can be set to any valid address.

***Premier SmartKey™* Status LED Indications**
To utilise the full functionality of the ***Premier SmartKey™*** the expander outputs should be programmed as follows for expander 1 on the control panel.

1.Area .... Exit
2.Area .... Armed
3.Area .... Part Arming *(Part Arm 1 on the Premier 24)*
4.Area .... Part Armed
5.Area .... Alarm
6.Area .... Panic Alarm
7.Area .... Walktest

NOTE *The other outputs on the expander must be set to Not Used.*

All devices first need to learned to the expander, this can be done either via the learn LED's onboard the expander see page 23, the Engineers keypad see page 24 or ***RICOCHET™ Monitor*** PC software.

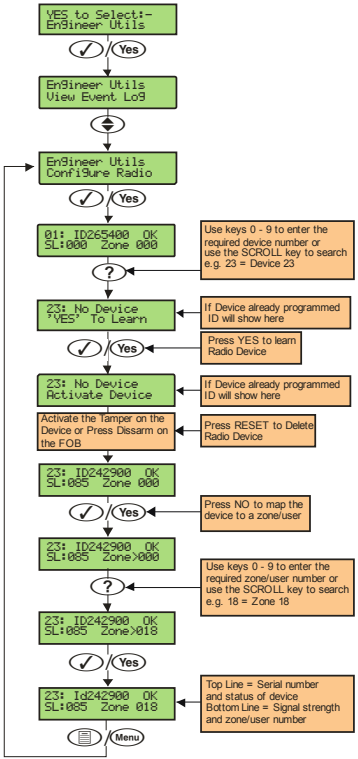
Once learned the Configure Radio menu may be used to assign the devices to the control panel.

It is possible to learn the devices to both the receiver and the control panel at the same time, however great care should be taken to ensure devices are learned to the correct slots in both instances.

For example to learn a device to slot 11 scroll to device 11 on the control panel keypad and press YES. Then learn device 11 via the LED's, Engineers Keypad or PC Software.

Once learned a tamper signal will be transmitted and the device will be allocated to slot 11 on the control panel. Press NO on the Control Panel keypad to map the device to a zone/user. Follow instructions in the Control Panel manual to assign the zone types, attributes etc.

Follow these instructions to learn devices to the control panel **AFTER** they have been learnt to the receiver.



Deleting Devices

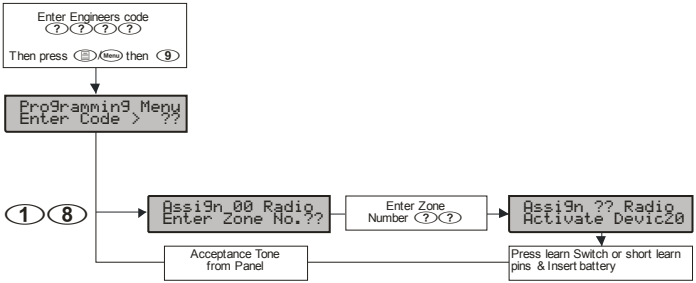
To delete radio devices, select the device number to be deleted then follow the procedure for learning a new device but press the reset button on the keypad when prompted to activate device instead of pressing the learn switch and inserting the battery.

Premier 412/816 V11.10 & Later, Premier 832 V4.10 & Later

Follow these instructions to learn devices to the system, once completed follow the relevant section of the control panel manual to programme zones and user attributes.

Option Switch Settings
For this version of firmware all option switches 1,2 & 4 should be OFF.

Expander Settings



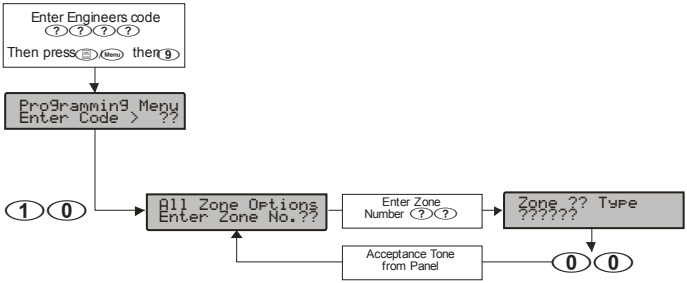
The expander should be set to address 1.

Detectors are assigned to zones as follows:

1. Select engineer's mode by entering the engineer code followed by ☰/Menu then 9.
2. Enter 1 8 to select the **Assign Radio Device** menu, if an error tone is generated then the receiver is not installed or configured correctly.
3. Enter the two digit zone number that you want to assign the detector to e.g., 0 9.
4. Press the learn switch or short the learn pins and insert the battery. The panel will generate an acceptance tone and the detector is now assigned to the selected zone.
5. Program the zone type and attributes as required. **Note:** The Zone Wiring must be programmed as "Double EOL", if a tamper response is required from the detector.
6. Repeat steps 2 - 5 for other detectors.

Removing Detectors

If a detector is no longer required it must be unassigned from the system. To remove a detector from a zone, proceed as follows:



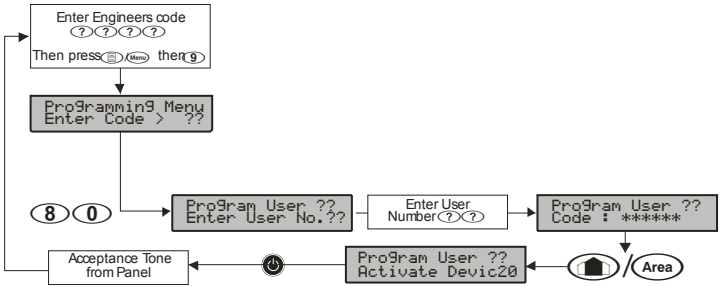
1. Select engineer's mode by entering the engineer code followed by (Menu) then 9.
2. Enter 1 0 to select the **All Zone Options** menu.
3. Enter the two digit zone number that you want to remove the detector from e.g., 0 9.
4. Enter 0 0 to program the zone type as **Null**. The panel will generate an acceptance tone and the detector is no longer assigned to the selected zone.

Learning *Premier SmartKey*™

All ***Premier SmartKey*™** must be assigned to one of the available users on the system. The users available will vary depending on the control panel:

Control Panel	Available Users
Premier 412	Users 1 to 31
Premier 816	Users 1 to 31
Premier 832	Users 1 to 63

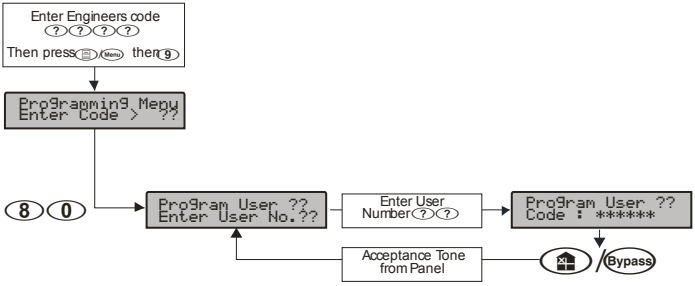
Premier SmartKey™ are assigned to users as follows:



1. Select engineer's mode by entering the engineer code followed by Menu then 9.
2. Enter 8 0 to select the **Program Users** menu.
3. Enter the two digit user number that you want to assign the ***Premier SmartKey™*** to e.g., 0 1.
4. Press the Area key, if an error tone is generated then the receiver is not installed or configured correctly (see Receiver Installation above).
5. Press the power button on the ***Premier SmartKey™***, the panel will generate an acceptance tone and the ***Premier SmartKey™*** is now assigned to the selected user.
6. If required, a user access code can also be assigned to user in the normal way.

Removing *Premier SmartKey™*

If a ***Premier SmartKey™*** is no longer required it must be unassigned from the system. To remove a ***Premier SmartKey™*** from a user, proceed as follows:



1. Select engineer's mode by entering the engineer code followed by (Menu) then 9.
2. Enter 8 0 to select the **Program Users** menu.
3. Enter the two digit user number that you want to remove the ***Premier SmartKey™*** from e.g., 0 1.
4. Press the (Bypass) key, the panel will generate an acceptance tone and the ***Premier SmartKey™*** is no longer assigned to the selected user. **Note:** If the ***Premier SmartKey™*** was assigned to user 02 onwards the user access code is also deleted.

Premier 412/816 V10.5 – V11.07 & Premier 832 V3.50.-.V4.07

Follow these instructions to learn devices to the system, once completed follow the relevant section of the control panel manual to programme zones and user attributes.

Option Switch Settings
Premier 412/816 V10.95 Premier 832 V3.95 and lower of firmware switch 1,2 & 3 should be ON.

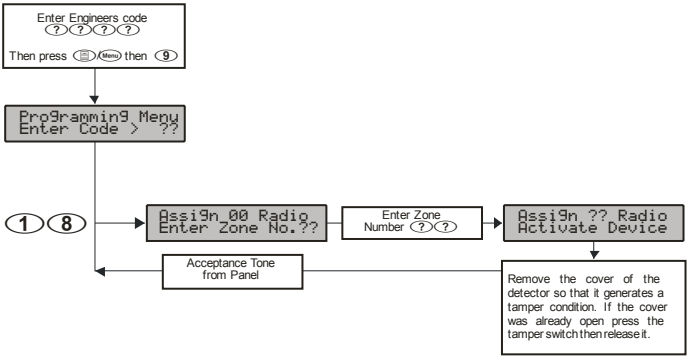
Premier 412/816 V10.96 –V11.07 Premier 832 V3.96 –V4.07 of firmware switch 2 & 3 should be ON

Expander Settings
The expander should be set to address 1.

***Premier SmartKey™* Status LED Indications**
With these versions of control panel firmware it is not possible to get status indications from the control panel. LED Status indication should be turned off using either ***RICOCHET™ Monitor*** or the Engineers Keypad.

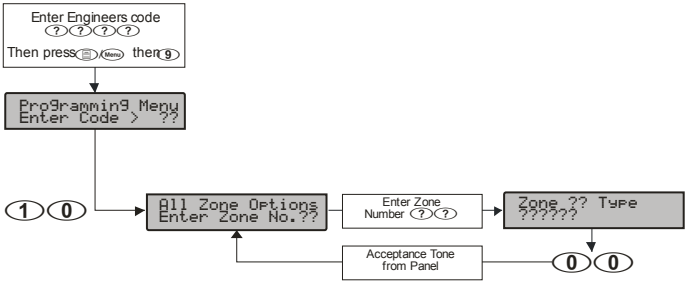
All devices first need to learned to the expander, this can be done either via the learn LED's onboard the expander see page 23, the Engineers keypad see page 24 or ***RICOCHET™ Monitor*** PC software. Once learned the Assign Radio Devices menu may be used to allocate devices to the control panel as follows:-

Detectors are assigned to zones as follows:



1. Select engineer's mode by entering the engineer code followed by (☰)/(Menu) then (9).
2. Enter (1)(8) to select the **Assign Radio Device** menu, if an error tone is generated then the receiver is not installed or configured correctly.
3. Enter the two digit zone number that you want to assign the detector to e.g., (0)(9).
4. Remove the cover of the detector so that it generates a tamper condition. If the cover was already open press the tamper switch then release it. The panel will generate an acceptance tone and the detector is now assigned to the selected zone.
5. Program the zone type and attributes as required. **Note:** The Zone Wiring must be programmed as "Double EOL", if a tamper response is required from the detector.
6. Repeat steps 2 - 5 for other detector

Removing Detectors
If a detector is no longer required it must be unassigned from the system. To remove a detector from a zone, proceed as follows:



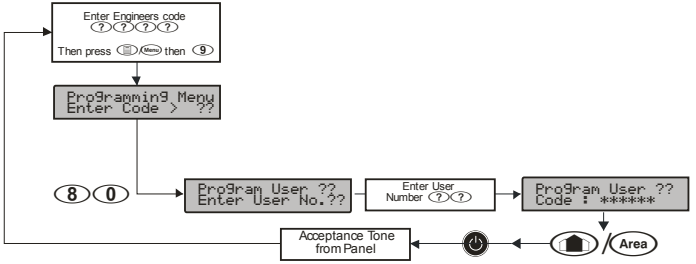
1. Select engineer's mode by entering the engineer code followed by (☰)/(Menu) then (9).
2. Enter (1)(0) to select the **All Zone Options** menu.
3. Enter the two digit zone number that you want to remove the detector from e.g., (0)(9).
4. Enter (0)(0) to program the zone type as **Null**. The panel will generate an acceptance tone and the detector is no longer assigned to the selected zone.

Learning *Premier SmartKey™*

All ***Premier SmartKey™*** must be assigned to one of the available users on the system. The users available will vary depending on the control panel:

Control Panel	Available Users
Premier 412	Users 1 to 31
Premier 816	Users 1 to 31
Premier 832	Users 1 to 63

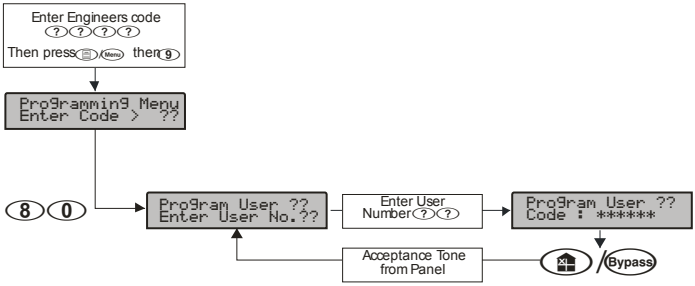
Premier SmartKey™ are assigned to users as follows:



1. Select engineer's mode by entering the engineer code followed by Menu then 9.
2. Enter 8 0 to select the **Program Users** menu.
3. Enter the two digit user number that you want to assign the ***Premier SmartKey™*** to e.g., 0 1.
4. Press the Area key, if an error tone is generated then the receiver is not installed or configured correctly (see Receiver Installation above).
5. Press the power button on the ***Premier SmartKey™***, the panel will generate an acceptance tone and the ***Premier SmartKey™*** is now assigned to the selected user.
6. If required, a user access code can also be assigned to user in the normal way.

Removing Premier *SmartKey*™

If a ***Premier SmartKey***™ is no longer required it must be unassigned from the system. To remove a ***Premier SmartKey***™ from a user, proceed as follows:



1. Select engineer's mode by entering the engineer code followed by / Menu then 9.
2. Enter 8 0 to select the **Program Users** menu.
3. Enter the two digit user number that you want to remove the ***Premier SmartKey***™ from e.g., 0 1.
4. Press the / Bypass key, the panel will generate an acceptance tone and the ***Premier SmartKey***™ is no longer assigned to the selected user. **Note:** If the ***Premier SmartKey***™ was assigned to user 02 onwards the user access code is also deleted.

Learning Devices directly to the 8XP-W & 32XP-W

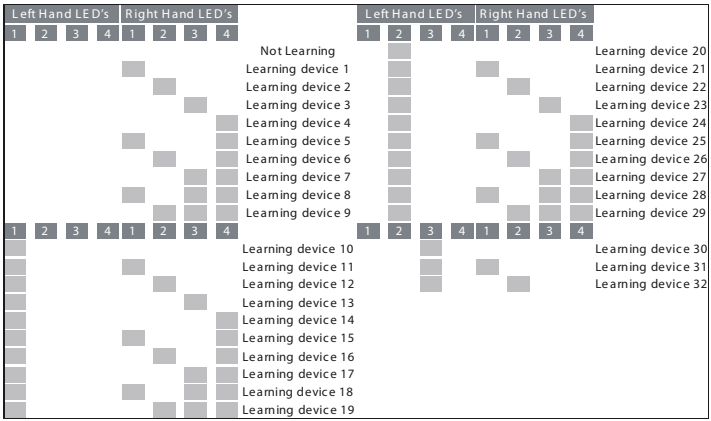
NOTE *this is only available in legacy mode.*

All devices can be learnt directly to the receiver. Device attributes cannot be changed when learning devices in this mode, all devices will use their factory default.

To initiate the learn sequence press the Learn Switch on the receiver see page 7. The right hand LED 1 will illuminate, keep pressing the learn switch until the correct LED sequence is seen for the device that you want to add to the system.

Free device slots are indicated by the corresponding LED's flashing, if the LED's do not flash then that slot is already occupied by another device. Depress the Learn switch on the device and insert the battery. Repeat this sequence for subsequent devices.

Once complete devices should be learned to the control panel using the relevant instructions for your control panel and firmware; Premier 24/48/88/168 & 640 see page 13, Premier 412/816 & 832 see page 19



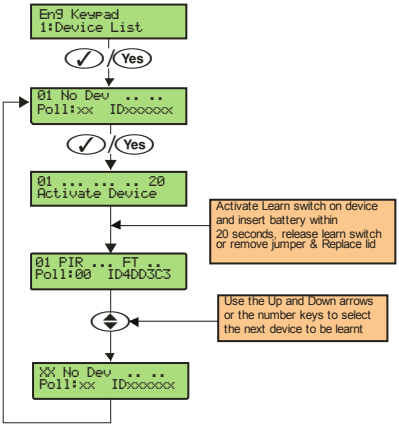
Using the Engineers Keypad

The Engineers Keypad can be connected directly to the expander, and has the following features & functions.

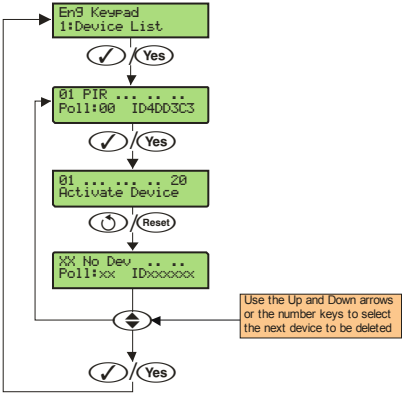
NOTE *Learning & Deleting devices is only available in Legacy Mode*

Device list
The device list has the following features:-

1. **Add Devices**



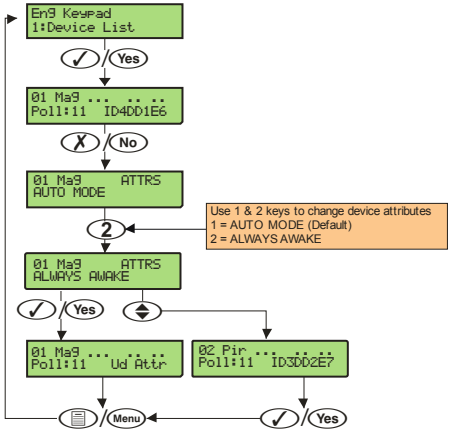
2. Delete Devices



3. Change Device attributes

Device attribute changes should be saved by either pressing the ✓/Yes key after each device change, or by pressing the ✓/Yes key after scrolling through the devices and making multiple changes.

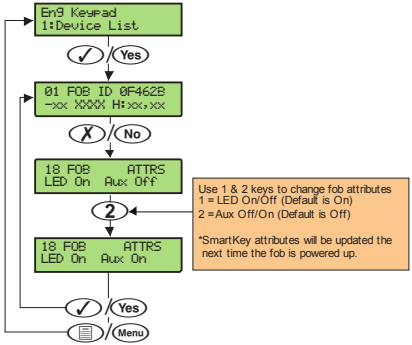
Once changed device attributes will be updated on the next successful poll with the receiver, if however you wish to update the devices immediately please see Update Devices on page 28.



4. Change *Premier SmartKey™* attributes

Premier SmartKey™ attribute changes should be saved by either pressing the Yes key after each ***Premier SmartKey™*** change, or by pressing the Yes key after scrolling through the devices and making multiple changes.

Once changed ***Premier SmartKey™*** attributes will be updated the next time the ***Premier SmartKey™*** is powered on; if however you wish to update the devices immediately please see Update Devices on page 28

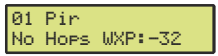


5. Home/Away Key Functions

When in Commission Mode (page 32) pressing the Home/Away key will display further information about the device's routing information and signal strength.

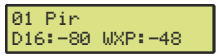
No Hops

In this example the device is "Home Running"



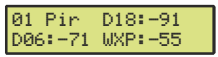
1 Hop

In this example the device is hopping through device 16 and the relevant signal strengths are shown



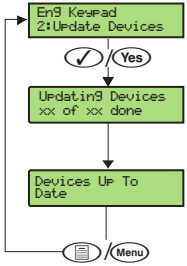
2 Hops

In this example the device is hopping through device 18 & 6 and the relevant signal strength is shown.

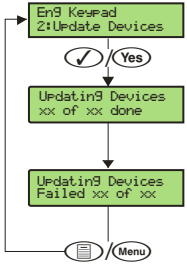


Update Devices

Used to immediately update devices ***(NOT Premier SmartKey™)*** attributes when changed in the Device List menu.

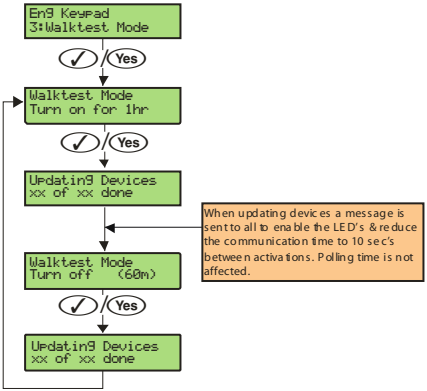


If the Update Devices broadcast message fails the following will be seen

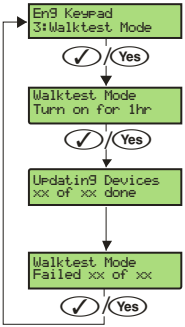


In this case the system has not had time to synchronise properly, if you are in Commission Mode (page 32) you should wait 4 minutes and try again. If not in commission mode you should wait 15 minutes and try again.

Walktest Mode
Used to initiate & stop Walktest Mode



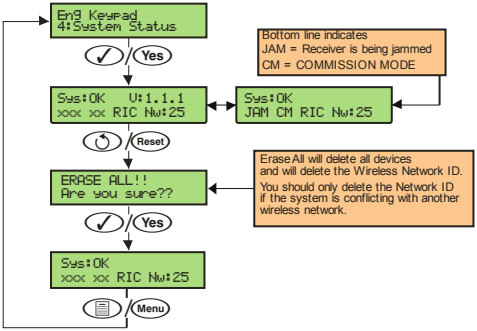
If the Walktest broadcast message fails the following will be seen



In this case the system has not had time to synchronise properly, if you are in Commission Mode page 32 you should wait 4 minutes and try again. If not in commission mode you should wait 15 minutes and try again.

System Status
Shows various System Details

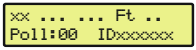
1. Sys: OK = Receiver connected to Premier Network correctly NC = Not Connected
2. V:?.?.? = Firmware version of the Premier 8XP-W/32XP-W
3. JAM = Receiver is being Jammed
4. CM = Commission Mode
5. Nw:xx = the Wireless Network. (*not the Premier Network*)
6. RIC = ***RICOCHET***™ Panel Firmware
7. LEG = Legacy Panel Firmware



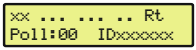
Device Status Indications

On the top line of the display the following may be seen depending on the device and status:-

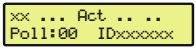
Ft = all devices Front Tamper



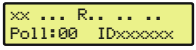
Rt = all devices Rear Tamper



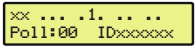
Act = Pir is Active



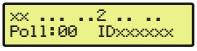
R = Impaq Mag & Impaq Plus Reed Switch Open



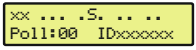
1 = Impaq Mag Input 1 Active



2 = Impaq Mag Input 2 Active

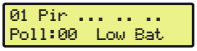


S = Impaq Plus Shock Sensor Active

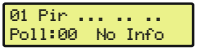


On the bottom line of the keypad when circumstances dictate the following messages may be seen:-

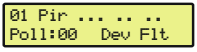
Low Bat = Low Battery



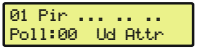
No Info = Receiver has just powered up and has not heard from the device



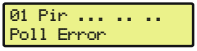
Dev Flt = Device Fault



Ud Attr = Shows when Device Attributes have been updated on the receiver but the device has not polled in or been updated by the Update Devices menu. This display also shows which devices are still out of date if the Update Devices broadcast message fails.



Poll Error= Device has not polled in and has been lost on the system.



7. Modes of Operation

Commission Mode

Expander
The expander has a Commission Mode, which when operated ensures secure communications with devices on the system. Commission Mode is automatically enabled when the expander is in tamper. When in commission mode the RF signal is attenuated by -6 dB, and will reject weak signals. This means that when devices are placed into their final locations and communications are established, you can be sure that the signal path is secure, and robust.

After entering Commission Mode the expander will also instruct the devices to poll in every 4 minutes, rather than the standard 15 minute poll time. The instruction will be sent with the next available poll to the device.

Device Commission Mode
At any time, when a tamper is generated on a device it will enter commission mode, the devices will do this regardless of the state of the receiver. Closing the tamper circuit will activate the LED for a short period of time whilst communication with the receiver is established.

The LED will flash, indicating the device is trying to communicate with the receiver, once communication is successful the LED will come on solid and then go out.

If the LED does not flash but simply comes on solid when the tamper is closed, then a valid & secure communication has taken place. If the LED flashes and then goes out, without going solid communication has failed.

This method of commissioning devices ensures that valid and secure communication is taking place and that signals are reaching the receiver. It is recommended that Device Commission Mode is used in conjunction with Expander Commission Mode. See Above.

Device Specific Functions

Prestige XT-W & Prestige QD-W
All settings & mounting height recommendations are covered in the device manual.

ImpaqPlus-W
Sensitivity and device placement instructions are covered in the device manual.

Impaq Contact-W

The ***Impaq Contact-W*** has 3 additional inputs labelled MAG 1 COM MAG 2, these inputs can be used for any N/C device. If the Reed switch is disabled the device can be used as a transmitter for any device wired into one of the two inputs.

The two additional inputs are NOT independently programmable of the reed switch, when mapped to a panel zone if either the reed switch or any of the inputs are triggered the zone which the device is mapped too will go active.

Switch 3 on the expander controls how MAG 2/COM reports to the control panel. By default the switch is on and anything connected to MAG 2/COM will report as a tamper. When switch 3 is OFF MAG 2/COM will report as alarm.

In the case of the ***Impaq Contact –W*** being used to trigger 24 hour circuits, or where the zone is required to chime, the device attributes should be changed to Always Awake as detailed on page 34.

The two additional inputs may also be used to transmit N/C signals from any other locally powered or self powered device, depending on the type of device used you should choose the device attributes to suit.

Walktest Mode

Walktest Mode can be initiated from the Control Panel, Engineers Keypad, ***RICOCHET™ Monitor*** or directly on the expander.

When in Walktest mode LED's are enabled and the response time for devices between activations is reduced to 10 seconds. Walktest will last for 1 hour.

Control Panel

Please refer to the Control Panel installation instructions to enter Walktest mode. The countdown timer does NOT appear on the panel's keypad.

Expander

Option switch 4 toggles Walktest mode on and off. To enable Walktest mode from the expander switch Option switch 4 to the ON position. To leave Walktest mode turn option switch 4 OFF. The countdown timer will be visible on the engineer's keypad or ***RICOCHET™ Monitor***.

Engineers Keypad

See page 33. The countdown timer will appear.

RICOCHET™ Monitor

Press the button. The countdown timer will appear.

8. System Attributes

Polling

Polling occurs between the devices and the receiver at a pre-determined interval of 15 minutes. This helps to conserve battery life. Poll intervals are set to 4 minutes when the system is in Commission Mode. Please see page 32 for details. The standard poll time is not adjustable. If the system is powered down for more than 1 hour, the devices will go into an Offline Mode to conserve battery life, in this case it can take up to 2 hours for all devices to come back online, alternatively each device should have its tamper circuit opened to force communications. When forcing the devices to come back online the same setup principles should be used and devices closest to the receiver should be activated first, this will again allow the mesh network to be established.

System Devices

Auto Mode
Auto Mode is the default device setting for the ***Prestige XT-W QD-W***, and should be used for all devices where possible. 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 minutes.

Always Awake
This mode should only be used on devices which are required to signal at all times and is the default setting for the ***Impaq Contact-W*** and ***Impaq Plus-W***. For example a ***Impaq Contac-W*** on a door which you need to know is opened, regardless of system state; or devices such as PA buttons & smoke detectors which have been connected to the inputs of the Magnetic Contact. See page 33 for details. The number of devices on a system in this mode should be kept to a minimum.

NOTE *as this is a dynamic bi-directional system any device which is Always Awake has the capability to shorten battery life of other devices. Please see the Battery Considerations section on page 36*

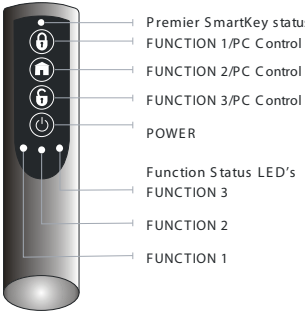
Premier SmartKey™

LED Indications

***Premier SmartKey™* Status LED**

The Status LED has four colours. This LED cannot be disabled.

1. Pink = Power Up or Down
2. Green = Successful communication with the system
3. Flashing Blue = communication with system.
4. Red = Out of Range
5. Turquoise = Function Mode



NOTE *on Premier 412 816 & 832 Function 1 is the Arm Button and Function 2 is the Disarm button.*

PA Activation

By default PA activation is enabled on the ***Premier SmartKey™***, however the control panel should be programmed to enable Radio PA. Please refer to your Control Panel manual for details.

Enable/Disable Alarm Status LED's

The Alarm Status LED's can be enabled or disabled either from the Engineers Keypad see page 27, or ***RICOCHET™ Monitor***.

NOTE *Alarm Status LED's are not available on the Legacy Premier 412, 816 & 832. For legacy Premier 24/48/88/168 & 640 please see page 13 to programme the output functions required to enable the LED indications.*

Auxiliary Functions

The ***Premier SmartKey™*** can also be used to activate auxiliary devices from the control panel outputs. The function keys should first be enabled either from the Engineers Keypad see page 27, or ***RICOCHET™ Monitor***. Once enabled the user can enter Auxiliary mode by pressing the power button when the ***SmartKey™*** is powered up, the status LED will change from blue to turquoise to indicate Function mode.

Once enabled the outputs should be programmed in the control panel to activate the desired function. Please refer to the Control Panel manual for details on how to programme the outputs.

NOTE *The Function Keys use the PC Control virtual outputs on the control panel and are pre assigned, in the case of the Premier 24/412/816 & 832, only function buttons 1 & 2 may be used.*

Instant Disarm

Pressing the DISARM button without powering up the ***Premier SmartKey™*** will disarm the system, or all areas allocated to the user, whilst the disarming process is taking place the alarm status LED's will change from the ARMED to the DISARMED state.

Alarm Status LED's

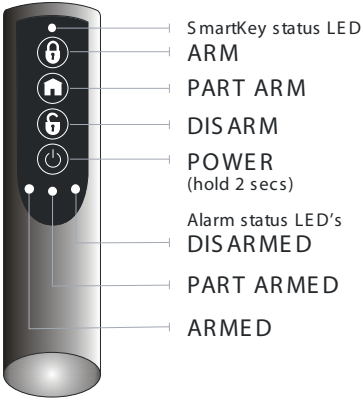
The alarm status LED's when enabled will indicate the system status to the user, however considerations need to be given when the user is allocated to more than one area.

In the case of multiple areas being assigned to a ***Premier SmartKey™*** user the alarm status LED's will indicate the status of all areas the user has access too.

For example in a two area system where one area is ARMED and one is DISARMED, both the ARMED & DISARMED LED's will be on. If the user then presses the DISARM button, the area which is currently ARMED will be DISARMED, and vice versa.

If the user has control over three areas and only the DISARMED LED is illuminated, it means that all areas the user is assigned too are DISARMED, pressing the ARM key will arm all three areas.

NOTE *Great care should be taken if the user is assigned to more than one area or subsystem. It is not possible for the user to determine from the **Premier SmartKey™** which areas are ARMED and which are DISARMED. It is important that in these situations the user has access to an alternative means of setting and unsetting the system so that the possibility of false alarms from the system are minimised.*



Arm Fail Indication

If the system or any area assigned to a user fails to arm, all three alarm status LED's will flash to indicate an arm failure. In the case of users assigned to multiple areas the whole system should be unset and each area investigated to determine the cause of the arm failure.

Battery Considerations

Battery life for all devices will be determined by system complexity, the number of devices that hop, and the use of the Always Awake mode.

In a typical system, battery life should be up to 4 years for devices, hopping devices should achieve between 2-3 years.

Always Awake. Mode should ***NOT*** be used for devices which are subject to multiple activations.

Batteries should only be replaced with an equivalent of those supplied with the devices. Please see the device instructions for details of the correct battery required.

Premier SmartKey™
The ***Premier SmartKey™*** battery should last in excess of five years in normal use. ***Premier SmartKey™*** batteries are **NOT** replaceable; in the case of a ***Premier SmartKey™*** battery failing the device should be replaced. Please contact your distributor to arrange a replacement.

Low Battery Warning
All devices, including ***Premier SmartKey's™*** will transmit a Low Battery Warning when there are three months remaining.

Battery Maintenance
The system should be checked for low battery warnings at each service interval or a minimum of 12 months whichever is sooner.

8XP-W & 32XP-W Power Loss

If the power to the receiver is lost for more than one hour, all devices on the system will enter an "Offline" mode to preserve battery life.

When power is replied to the receiver it can take up to two hours for all devices to be recognised by the system.

To resolve this issue quickly each device on the system should be tampered to force communication with the receiver.

The same principles apply to the learning & placing of devices, and as such tampering should start with the device closest to the receiver and working outwards, allowing for the mesh network to be re-established.

9. Specifications

Electrical

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

Standards

Conforms to European Union (EU) Electro-Magnetic Compatibility (EMC) Directive 2004/108/EC.& LVD directive 2006/95/EC & R&TTE Directive 1999/5/EC.

The CE mark indicates that this product complies with the European requirements for safety, health, environmental and customer protection.

EN Standard	*Premier 8XP-W &Premier 32XP-W*	*Premier SmartKey™*	Prestige XT/QD-W	Impaq plus-W Impaq Contact -W
EN60950-1	✓	✓	✓	✓
EN61000-6-3	✓	✓	✓	✓
EN 301 489-3	✓	✓	✓	✓
EN50130-4 A1: + A2:	✓	✓	✓	✓
EN300 220-1	✓	✓	✓	✓
EN50131-1	✓	✓	✓	✓
EN50131-2-2			✓	
EN 50131-2-6				✓
EN50131-3	✓	✓		
EN50130-5	✓	✓	✓	✓
EN50131-5-3	✓	✓	✓	✓
EN50131-6	✓	✓	✓	✓
PD6662	✓	✓	✓	✓

Warranty

All Texecom products are designed for reliable, trouble-free operation. Quality is carefully monitored by extensive computerised testing. As a result the *Premier 8XP-W & 32XP-W* expander is covered by a two-year warranty against defects in material or workmanship.

As the *Premier 8 XP-W & 32XP-W* expander 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 *Premier 8 XP-W & 32XP-W* expander/s failed to function correctly. Due to our policy of continuous improvement Texecom reserve the right to change specification without prior notice.

Premier is a trademark of Texecom Ltd.

Prestige is a trademark of Texecom Ltd.

SmartKey is a trademark of Texecom Ltd.

Ricochet is a trademark of Texecom Ltd.

SignalSecurity is a trademark of Texecom Ltd.

© TEXECOM LTD 2010

Notes

Notes

Notes

Texecom
Wireless Security

Texecom Limited, Bradwood Court, St. Crispin Way, Haslingden,
Lancashire BB4 4PW, England.

Technical Support:

UK Customers Tel: 08456 300 600
(Calls charged at local rate from a BT landline. Calls from other networks may vary.)
International Customers Tel: +44 1278 686197
Email: techsupport@texe.com

© Texecom Limited 2010

INS467