

Installation Manual

Premier Elite 32XPH-W

INS732



Texecom

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2. Premier Elite 32XPH-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 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.



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

Control Panel	Premier Elite 32XPH-W	Legacy	Ricochet	Ricochet V2.xx
** V2.10 > Premier Elite 12/24/48/88/168 & 640*	See Section 3	N/A	V2.10>	V2.10>

Multiple Expander Support

It is now possible to add multiple expanders to the system allowing for greater flexibility in system design, and also taking wireless capability to new levels.

Control Panel Capacity

The table below details the maximum number of expanders and devices that may be used on the different control panels.

Panel	32XPH-W	
	Expanders	Devices
Premier Elite 12-W & Live™	N/A	N/A
Premier Elite 24™	1	16
Premier Elite 48™	1	32
Premier Elite 48-W™	N/A	32
Premier Elite 88™	2	64
Premier Elite 168™	4	128
Premier Elite 640™	16	512



Premier Elite 32XPH-W take 4 address slots on the network.

System Requirements

To enable all of the advanced functionality and diagnostics capability *Ricochet* the following are minimum requirements:-

- **Wintex™** Version 6 Build 16 or later
- **Ricochet Monitor™** 0.2.15.00 or later
- **Premier Elite™ Series** V2.xx or later
- **Premier Elite™ 32XPH-W** Expanders V2.xx or later



Expander firmware version can be found on the round green sticker located on the RH side of the PCB.

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.

Multiple Expander Systems

When using multiple expanders great care should be taken when designing the system. Each expander should be treated as its own wireless network; it is not possible for devices to hop from one wireless network to the other, it is also not possible for expanders to pass wireless signals from devices not assigned to them and nor can the expanders talk to each other.

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 16. 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 1Mtr away but ideally 10m 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 16.

Devices also have a commission mode which will indicate a secure and valid path of communication to the receiver. See page 16.



NOTE You should wait at least 20 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. Do not mount devices on or near metal. Keep devices away from mains electricity supplies.



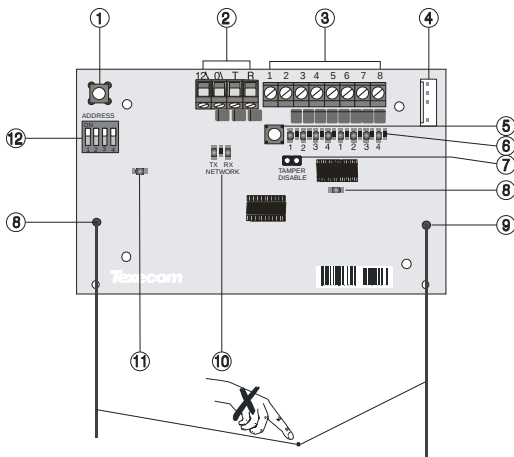
NOTE Devices are capable of hopping through up to two other devices, or a maximum of three hops.

3. Quick Start Guide

1. Connect Receiver to Control Panel Network & Leave Tamper Circuit Open. See Page 6
2. Ensure all Option Switches are off. See Page 5
3. Learn Devices to Control Panel. See Page 7 Onwards
4. set attributes. See Page 7 Onwards
5. Change Device Attributes according to application. See page 10
6. Place Devices in desired location, use LED to indicate Signal Security. See Page 4 & 16
7. Wait 20 Minutes for Mesh Network to establish
8. Walk Test System.

RELEASE

4. System Overview



1: Function Switch

Used to Learn devices in Standalone mode, and to clear latched outputs.

2: Network Connection

The + and - terminals provide power whilst the T and R terminals are transmit and receive data.

3: Outputs 1-8

Eight transistor outputs which can indicate the status of nodes 1-16. See page 12 for details.

4: Comm. Port Connection

Serial communications port for connecting the 32XP-H-W to a PC via PC Com/USB Com or Com IP/WiFi for use with *Ricochet Monitor Software*.

5: Lid Tamper

When open puts the system into commission mode and digitally attenuates the receiver signal by 15Db.

6: Programming LED's

Allows programming of devices directly to the receiver, in conjunction with the learn switch (Standalone mode only).

7: Tamper Disable

Disables the lid and rear tamper

8: RF LED

Flashes when transmitting or receiving RF data

9: Antenna

RF Antenna

10: 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)*

11: 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.

12: Address Switch/Option Switch (Standalone Mode Only)

Used to assign the address of the receiver on the network when connected to a control panel. Options switches when used in Standalone Mode.

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.



Do not mount near metal or mains supplies. When using with metal control panels a minimum of 50cm gap is required. Do not mount near aerials of any description, or other wireless equipment.

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.



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	



Never set two expanders on the same network to the same address. Expanders are factory set to address 1.

Ricochet Expander Addressing

Introduction

The address range and switch position will depend on which combination of expanders are being used. Each 32XPH-W takes up 4 address slots on the control panel network, however the network slots are virtual until devices are assigned to available zones. It is possible that if a 32XPH-W is being used at Address 1, but only 16 devices have been used, Address 3 & 4 are available for hardwired 8XP's.

Please see some examples of mixing different types of Expanders on various Elite panels and the addressing requirements.

Example: Totally wireless system(s)

Panel	32XPH-W															
	Network 1		Network 2		Network 3		Network 4		Network 5		Network 6		Network 7		Network 8	
Expanders (Max)	2		2		2		2		2		2		2		2	
Premier Elite 88™	Exp 1	Exp 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Expander Address	1	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Premier Elite 168™	Exp 1	Exp 2	Exp 1	Exp 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Expander Address	1	5	1	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Premier Elite 640™	Exp 1	Exp 2	Exp 1	Exp 2	Exp 1	Exp 2	Exp 1	Exp 2	Exp 1	Exp 2	Exp 1	Exp 2	Exp 1	Exp 2	Exp 1	Exp 2
Expander Address	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5

5. Programming

Premier Elite™ V2.10> 12/24/48/88/168 Ricochet Learn Menu

V2.10> contains a dedicated Ricochet learn menu accessible via the  /  key when in Engineer menu.

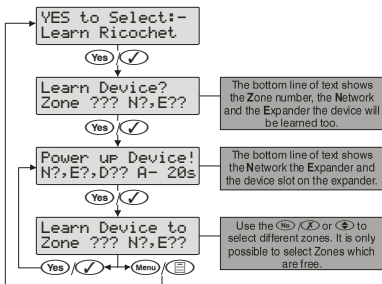
Learn Devices from first power up

Follow the instructions given in INS176-8 or later for the first power up of the system.

When the "Confirm Devices" menu appears check and make sure all installed Keypads and Expanders are showing; press  /  and  /  again to confirm.

Providing the system has a Ricochet® enabled expander installed, the following will appear. The flow diagram shows the procedure to learn devices:-

RELEASE



Access the Learn Menu using the Omit "Hot" key

From any top level engineering menu pressing the / key will take you to the *Ricochet* learn menu above.



IMPORTANT

In all cases when entering the Learn menu the next available free Zone will be chosen to learn a device too. It will not be possible to learn a device to a Zone that already has a device learned too it. The number of expander's on the system will dictate which next "free" zone is chosen to learn too.

When all device slots have been used the following screen will be shown

All Devices
Learnt!

Pressing the / key will return you to the **Ricochet**® learn menu; pressing the / key will enter the Delete devices menu.

Auto Zone Type & Area

When learning devices, if no editing has taken place of the control panel on-board hardwired zones, these will be switched to **Not Used** after the first **Ricochet**® device is learned to the system; the following defaults will be used for **Ricochet**® devices learned to the system.

Zone	Type	Area
001-008	Not Used	N/A
009	Entry/Exit 1	A
010	Guard Access	A
011 & above	Guard	A

IMPORTANT

If any editing of any of the on board control panel zones is carried out **BEFORE** any **Ricochet** devices are learned too the system, the control panel zones will remain at factory defaults.

Deleting Devices

Delete Devices

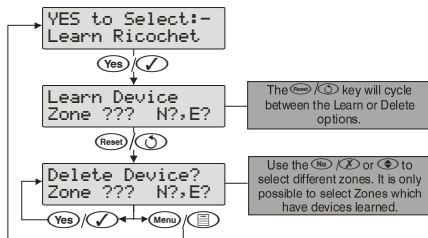
To delete devices from the system, access the *Ricochet* Learn menu. Any of the methods previously detailed may be used.

The /Reset key is used to access the Delete option.

Follow the flow diagram to delete devices from the system.



To delete all devices, go to Engineer Utilities/Ricochet Diagnostics. Scroll to the first wireless zone for the expander being defaulted and press /Reset followed by /Yes. All zones will be deleted.



If all devices are deleted from the system the following will be shown

All Devices
Deleted!

Pressing the /Menu key will return you to the *Ricochet* learn menu; pressing the /Reset key will enter the Learn devices menu.

Summary of Keys used

Key	Function
 /Omit	Use this key to access the <i>Ricochet</i> Learn menu from any top level engineering menu.
 /Reset	Use this key when in <i>Ricochet</i> Learn menu to delete devices, or cycle between learn and delete functions
 /Menu	Use this key to exit the Learn Menu.

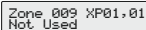
Premier EliteV2.00 - V2.09 24/48/88/168 & 640 + Ricochet V2.xx

Introduction

V2.xx firmware added the option to learn *Ricochet* devices through the Zone Setup Menu, the "Configure Radio" menu in Engineer's Utilities is now redundant and should only be used for Legacy systems.

Learning Devices

To learn a device to a Zone select the Zone from the Zone Setup Menu, Zones that are capable of having a **Ricochet** device learnt to them will be displayed as follows:-

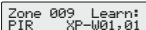


Zone 009 XP01.01
Not Used

Fig 1

Fig 1 indicates the pre-assigned zone number, the expander being used and the device slot on the expander.

Once a device has been learnt the display will be as Fig 2:-

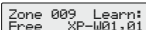


Zone 009 Learnt:
PIR XP-W01.01

Fig 2

If you are unsure if a zone already has a device learned to it, you can go to the menu as in Fig 1, press

/Reset and then /No if a device is already learnt the display will look like Fig 2, if not then it will look like Fig 3



Zone 009 Learnt:
Free XP-W01.01

Fig 3

Please see the diagram on the next page to learn devices.

Deleting Devices

To delete devices from the expander is the same as learning them; choose the zone you wish to delete, and follow the procedure to learn the device, when the screen shows "Learning" press /Reset.



NOTE

To default the expander completely, disconnect the T and R lines, put option switch 1 & 2 to ON and hold the white function button until the expander programming LED's all illuminate and turn off.

Device Modes of Operation

Always Awake

This mode should only be used on devices which are required to signal at all times and is the default setting for perimeter detection devices such as Contacts and Shock sensors & PA Buttons.

Auto Mode

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. This mode of operation is the default mode for all single technology motion detectors.

Hybrid Mode

Hybrid mode is used to control the reporting functions for devices. When in this mode devices are awake only when the system is set. Devices are woken up by the control panel at the point of arming. The system will display "Preparing to Arm". When the system is disarmed the devices will be put back to sleep. This mode of operation is the default mode for all Dual Technology motion detectors.



NOTE

On very large systems (100 devices +) a small delay may be experienced when arming the system, this is normal as the expanders on the system wake up the relevant devices.



NOTE

Premier Elite DT-W should ALWAYS be used in Hybrid mode, failure to do this will have an adverse affect on battery life.

Device Specific Mode

Device Specific mode is used to control the reporting functions for devices. Devices that use this mode of operation have specific operating parameters and should not be altered. This mode of operation is the default mode for all Fire detectors (Smoke, Heat and any other variant), & Internal/External Sounders.

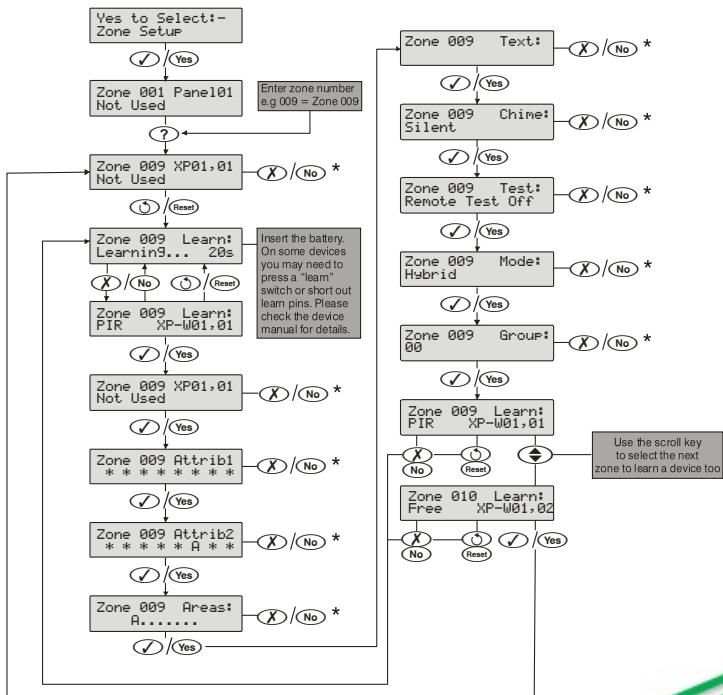
Expander O/P Mode

Expander O/P modes are for future use and should not be used with any of the devices listed above.

Zone Types & Attributes

Detailed instructions for programming can be found in INS176-8 or later.

To Learn Devices through the Zone Setup menu please follow the diagram on the next page.



* Please refer to INS176 "Zone Setup" for details when using the (X) / (No) key to change these settings

RELEASE

Standalone 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 Function Switch on the receiver see page 5. 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:

Left Hand LED's				Right Hand LED's					Left Hand LED's				Right Hand LED's				
1	2	3	4	1	2	3	4		1	2	3	4	1	2	3	4	
								Not Learning									Learning device 20
								Learning device 1									Learning device 21
								Learning device 2									Learning device 22
								Learning device 3									Learning device 23
								Learning device 4									Learning device 24
								Learning device 5									Learning device 25
								Learning device 6									Learning device 26
								Learning device 7									Learning device 27
								Learning device 8									Learning device 28
								Learning device 9									Learning device 29
								Learning device 10									Learning device 30
								Learning device 11									Learning device 31
								Learning device 12									Learning device 32
								Learning device 13									
								Learning device 14									
								Learning device 15									
								Learning device 16									
								Learning device 17									
								Learning device 18									
								Learning device 19									

Standalone Operation

	Output	Node Status
Nodes can be learnt and deleted using the simple Function Switch and LED display.	Off	Secure
	On	Alarm
Eight Transistor outputs are provided which indicate the status of nodes 1-16.	Flashing (1Hz)	Trouble
	Flashing (4Hz)	Alarm and Trouble
	Blinking	Poll Error

This table shows two example systems.

	Output	Node	8 Zone SL350 System	8 Zone PIR System
The outputs indicate a logical OR of the alarm and trouble signals from both zones.	1	OR {	1 Zone 1 SL350 RX	Zone 1 PIR
			2 Zone 1 SL350 TX	Empty
	2	OR {	3 Zone 2 SL350 RX	Zone 2 PIR
			4 Zone 2 SL350 TX	Empty
This can be used to directly interface with a simple annunciation type system without the need for a control panel.	3	OR {	5 Zone 3 SL350 RX	Zone 3 PIR
			6 Zone 3 SL350 TX	Empty
	4	OR {	7 Zone 4 SL350 RX	Zone 4 PIR
			8 Zone 4 SL350 TX	Empty
Option switch 1: Disables outputs and enables learning using the Function Switch	5	OR {	9 Zone 5 SL350 RX	Zone 4 PIR
			10 Zone 5 SL350 TX	Empty
	6	OR {	11 Zone 6 SL350 RX	Zone 4 PIR
			12 Zone 6 SL350 TX	Empty
Option switch 2: Configures outputs to be momentary. When off, outputs latch and may be cleared using the Function switch.	7	OR {	13 Zone 7 SL350 RX	Zone 4 PIR
			14 Zone 7 SL350 TX	Empty
	8	OR {	15 Zone 8 SL350 RX	Zone 4 PIR
			16 Zone 8 SL350 TX	Empty

6. Ricochet Diagnostics

Premier Elite V2.XX

Engineer Utilities now includes a new *Ricochet* Diagnostics menu. This menu displays information about the live system.

Devices

For Devices the following information can be viewed:-

- Routeing
- RSSI
- Alarms and Status
- Device visibility
- Time since last message



The key can be used to move between the options for each Zone.

Interpreting Keypad Displays

Routeing

The image below shows that Zone 009 is routeing through 14 and then 7 to the expander. If question marks appear in the display it means the information is not available.

```
Zone 009 PIR
->014->007->%P
```

RSSI

Each value in the image below represents the RSSI levels in dBm (on V2 it is shown as %) at each of the hops. If question marks appear on the display it means the information is not available.

```
Zone 009 PIR
69>> 80>> 57XP
```



If question marks appear it could be because either the system has just been powered up and information has not been collected yet, or on large systems the information is not in memory. To populate the display activate the device and the information should appear.

Device Messages

```
Zone 001
Not Ricochet
```

The chosen zone does not have a Ricochet device learned to it.

```
Zone 009 PIR
Ms9 ??? mins a9o
```

shows the last time the device communicated this represents the last message and could be a poll, activation or tamper etc.....

```
Zone 009 PIR
>1hr since ms9
```

This is a warning showing that the last communication from the device was over an hour ago.

```
Zone 009 PIR
No ms9 recvd yet
```

This display shows that no message has been received yet, this would normally be seen on a recently powered up system, wait 15 minutes from power up before checking the diagnostics information.

Signal Security™

```
Zone 009 Shock
???
```

This display shows information relating to signal security on an 8XP-W. 4 windows are available to show information; each window represents two devices, (Odd & Even device slots). Each window could show any of the information detailed in the table below

?	No information is available
-	The chosen device cannot "see" either of the devices
O	The chosen device can see the ODD device(s)
E	The chosen device can see the EVEN device(s)
B	The chosen device can see BOTH devices

Example

```
Zone 009 Shock
_0EB
```

In this example Zone 9 can see the devices as detailed below, use the scroll key to view information about other devices:-

Display	-		O		E		B	
Device	1	2	3	4	5	6	7	8
Can see	x	x	✓	x	x	✓	✓	✓



On the 32XPH-W there are 16 windows to show information from the 32 devices of the system; the format is the same.

Device Status

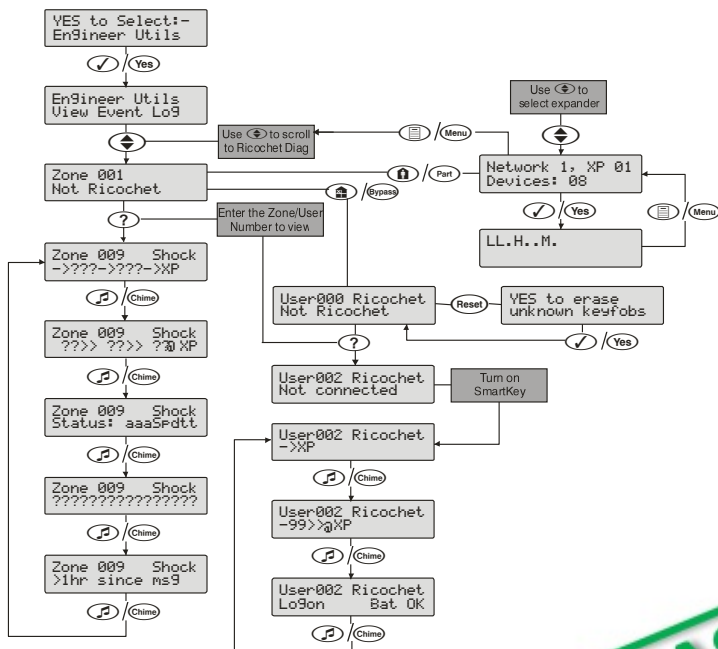
```
Zone 009 Shock
Status: aaa5Fdt
```

Secure/OK	Active/Fault	Type
a	A	Mag1

RELEASE

a	A	Mag2/Sho
a	A	Reed/PIR
s	S	Poll/Supervision
p	P	Power/Battery
d	D	Device
t	T	Rear
t	T	Front

Ricochet Diagnostics Menu



RELEASE

Premier Elite V3.XX

Low signal security

For V3 the keypad can display basic signal security information for each device on an expander. Each device will show **H** High, **M** Medium or **L** Low signal security. The system is updated live and therefore it is possible to determine changes by moving devices, or by adding more to the system. The information displayed replicates what is seen when using Ricochet Monitor.

Low Signal Security Displays

Network 1, XP 01
Devices: 08

The network, expander and number of devices learnt to the expander will be shown.
Use the  key to select the expander you wish to view.

.....

No devices learnt to the expander. 8 spaces available.

LL.....

2 devices out of eight learnt showing **Low** signal security. Adding more devices will improve the reading, moving them will not.

MMLLLLLL

8 devices on the system, 2 show **Medium** signal security. 6 showing **Low** signal security. Moving the devices may improve the system.

HHHHHHHH

8 Devices learnt to the system, all devices showing **High** signal security, the system is operating perfectly.

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.

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 16 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

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 Contact-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. The number of devices on a system in this mode should be kept to a minimum.

Device Specific

This mode is assigned to devices that need to operate in a specific way and should not be changed. Life safety devices and sounders will typically use this mode.

Hybrid Mode (V2.xx)

Hybrid mode is used to control the reporting functions for devices. When in this mode devices are asleep when the system is unset, and are woken up by the control panel at the point of arming. When the system is disarmed the devices will be put back to sleep.

Expander O/P Mode

Expander O/P modes are for future use and should not be used with any of the devices listed above.



NOTE

On very large systems (100 devices +) a small delay may be experienced when arming the system, this is normal as the expanders on the system wake up the relevant devices.



NOTE

Premier Elite DT-W should ALWAYS be used in Hybrid mode, failure to do this will have an adverse effect on battery life.



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.

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Premier Elite 32XPH-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	<100mA average, 350mA peak (<100ms)
Network	4-wire standard 7/0.2 alarm cable up to 250m. Star, Daisy Chain or any combination.
Outputs 1 - 8	Open Drain. 300mA, 30V Max
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

Physical

Dimensions	170mm H x 140mm W x 35mm D
Packed Weight	500gms

Standards & Directives

Texcom declares that this product complies with the requirements of the following directives

- 2011/65/EU ROHS Directive

Standards

FCC CFR 47 Part 15 SubPart C		IEC 60950-1:2005/A2:2013	IEC 62311:2007
Product Type	Frequency		
LAIA5000	920MHz		

FCC ID: MYJLAIA5000

FCC warning statement:

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Warning: Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice to OEM customer: Where this product is provided as part of a solution to an end user for use within the USA, the above FCC ID and warning must also be included in the User / Installers instructions.

Please note the device should not be used with 20cm of the human body when the RF is enabled

Warranty

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

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

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