Wireless RIX

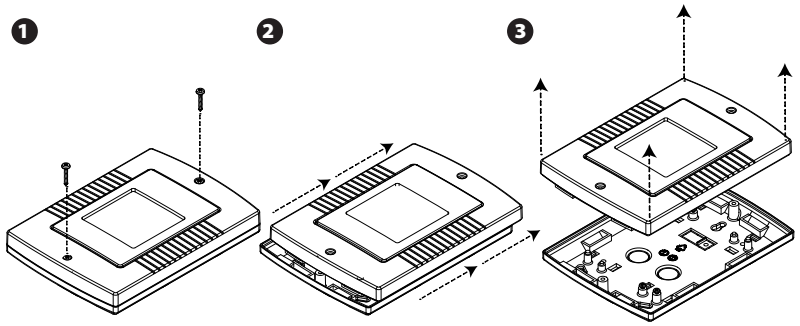
32 Input Wireless Expander
(PCX-RIX32-WE)

RINS1573-1

ENFORCER two way wireless technology

Pyronix www.pyronix.com

1) Opening the casing

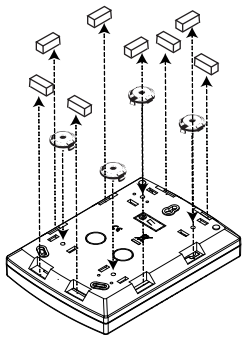


PLEASE NOTE:

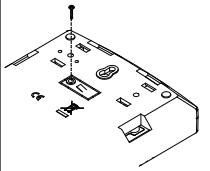
The Wireless RIX will only operate on PCX control panels that have version 9.1 software or above.

The Wireless RIX must be first addressed, then programmed in the 'Install RIX' function of the control panel. See the reverse for details.

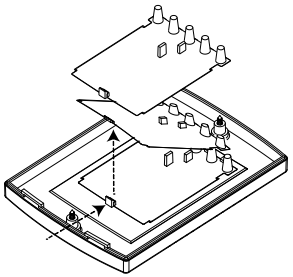
2) Stand Offs/Knock Outs



3) Rear Tamper



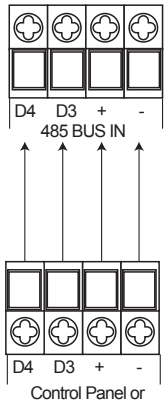
4) Label access



INSTALLATION GUIDE:

It is advised that all the wireless devices are learnt to the Wireless RIX before installation. The signal strength function (see reverse) can then be used to choose the best location of a device.

5) RS485 Bus Wiring



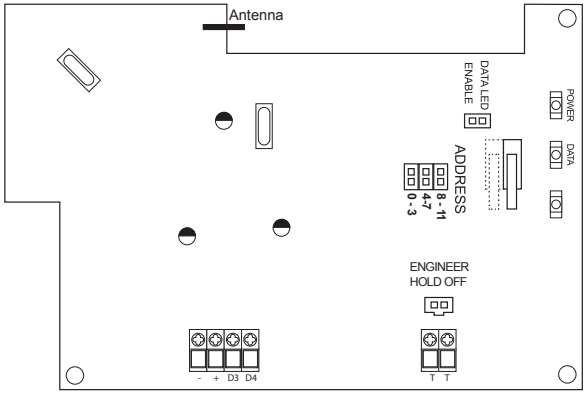
6) Address Mapping

8 - 11 **First Wireless RIX (place jumper on 0-3)**
RIX Address 0: Inputs 9-16
4-7
RIX Address 1: Inputs 17-24
0 - 3
RIX Address 2: Inputs 25-32
RIX Address 3: Inputs 33-40

8 - 11 **Second Wireless RIX (place jumper on 4-7)**
RIX Address 4: Inputs 41-48
4-7
RIX Address 5: Inputs 49-56
RIX Address 6: Inputs 57-64
0 - 3
RIX Address 7: Inputs 65-72

8 - 11 **Third Wireless RIX (place jumper on 8-11)**
RIX Address 8: Inputs 73-80
4-7
RIX Address 9: Inputs 81-88
RIX Address 10: Inputs 89-96
0 - 3
RIX Address 11: Inputs 97-104

Fig.1



The 32 inputs available on each RIX are divided into 4 blocks of 8 (as shown above in fig 1). Each block of 8 can be separately enabled or disabled in the Enable RIX Menu on the keypad Engineer Menu (see reverse).

If any block of 8 inputs is not required on the wireless RIX, that block may be used by a wired EoL input expander.

End of Line Wired input expanders can be installed on a control panel together with wireless RIXs. Both types of RIX are installed on the same RS485 Data BUS, and no two RIXs of either type may share the same address number.

NOTE: Please make sure that you address the Wireless RIX while the tamper switch is open. The address will then be assigned to the RIX when the tamper is closed.

7) Wireless RIX Overview

FIRST WIRELESS RIX	Max Devices: 32 Wireless Inputs 32 Wireless Keyfobs 2 Wireless Bells
SECOND WIRELESS RIX	Max Devices: 32 Wireless Inputs
THIRD WIRELESS RIX	Max Devices: 32 Wireless Inputs

Depending which control panel the Wireless RIX is connected to, a maximum of 96 wireless inputs may be connected.

IMPORTANT: All wireless keyfobs and wireless wireless bells will be learnt to the Wireless RIX addressed as ADDRESS 0 ONLY.

8) LEDs

POWER LED (RED)
Shows that +12V is at the RIX.

DATA LED (GREEN)
Shows communication to the control panel.

NOTE: All LEDs are disabled. They will become active after a tamper switch is open.

9) Wireless Peripherals

There are many wireless peripherals available that can be learnt to the Wireless RIX. For more information please refer to either the Pyronix or Castle website.

KX12DT-WE: 12m Dual technology
KX12DQ-WE: 12m Wireless PIR
KX10DP-WE: 10m Wireless pet immune PIR
SMOKE-WE: Wireless smoke sensor
CO-WE: Wireless CO^2 sensor
SHOCK-WE: Wireless shock sensor
MC2-WE: Wireless door contact
KF4-WE: Wireless keyfob
DELTABELL-WE: Wireless external sounder

10) Operations

Data LED Enable
Disables the Data LED
Enabled
Disabled

Engineer Hold Off
Overrides the tamper switch and terminals
Enabled
Disabled

Engineer Keypad:
An engineer keypad can be connected here giving immediate access to the engineers mode. NOTE: The keypad must be addressed before use.
ENGINEER KEYPAD

11) Compliance

For electrical products sold within the PCXpean Community. At the end of the electrical products useful life, it should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice in your country.

Suitable for use in systems installed to EN50131-1:2006+A1:2009, EN50131-3:2009, EN50131-6:2008, EN50131-5-3:2005+A1:2008, at Security Grade 2, Environmental Class II. Subject to the grading of the overall system.

12) Technical Specification

Input Voltages	9V -14V
Current Consumption	60mA quiescent 115mA during transmission
Radio Frequency	868MHz, FM Transceiver Narrow Band
Dimensions	173 x 125 x 32mm
Operational	-10°C to +50°C
Storage	-40°C to +80°C
Humidity	85% @ 25°C
Weight	0.24kg

13) Warranty

This product is sold subject to our standard warranty against defects in workmanship for a period of two years. In the interest of continuing improvement of quality, customer care and design, Pyronix Ltd reserve the right to amend specifications without giving prior notice.

14) Customer Support

Customer Support Line: 0845 6434 999 (local rate)

or call +44(0)1709 535225

Hours: 8.00am - 6:30pm, Monday to Friday

customer.support@pyronix.com

marketing@pyronix.com

www.pyronix.com

www.castle-caretech.com

Pyronix Ltd, Secure House, Braithwell Way, Hellaby, Rotherham, S66 8QY, UK

Assigning the Wireless RIX

On the control panel, enter the engineer's menu and using the B and NO keys, scroll to '**INSTALL RIX**?' Press the YES key.

NOTE: On the PCX it will be displayed as 'INSTALL RIX?".

```
INSTALL RIXS?
```

Use the B and D keys to select the relevant address, press the YES key.

```
RIX Address
          [0]
```

Press 2 to install a wireless RIX, and press the YES key.

```
RIX Installed
No        [0]
```

```
RIX Installed
RIX32WE   [2]
```

Learning Wireless Inputs and Bells

On the control panel, enter the engineer's menu and using the B and NO keys, scroll to '**WIRELESS DEVICE CONTROL**?' Press the YES key.

```
WIRELESS DEVICE
CONTROL?
```

To learn/delete inputs, press the YES key, or press NO to learn/delete bells.

```
Control Inputs?
```

To learn a new wireless device to the wireless RIX, press the YES key. Press the NO key to delete inputs.

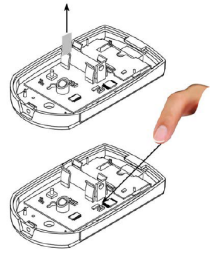
```
Learn Devices?
```

Use the B and D keys to select the relevant input that is to be learnt and press the YES key.

```
Input 001
Available [001]
```

```
Learning...
```

During the learning process the 'LEARN' button must be held until the LED's on the device sequence. Release the button and the display will show 'Input Learnt.



Wireless door contacts are learnt the same way.

If smoke or carbon monoxide sensors are being learnt, they will just include one learn button and one LED.

If the GREEN LED on the wireless device is illuminated and the display shows 'Input Learnt' the device has been learnt successfully. Press the ✓ key. Press the NO key.

```
Input Learnt
```

To delete inputs, press the YES key, or press NO to learn/delete bells.

Inputs can either be deleted individually or all at once. To delete all wireless devices press the YES key (the code 2000 will need to be entered if deleting ALL devices). Or press the NO key to delete individually.

```
Delete Devices
```

To learn/delete bells, press the YES key, or press NO to program keyfob buttons.

```
Control Bells?
```

To program keyfob buttons, press the YES key, or press NO to exit. NOTE: Any keyfob must be learnt in the Master Manager Menu before this function is enabled. See the User Manual for more information.

```
Program Keyfob
Buttons?
```

Use the B and D keys to select the button or select the button below. Press the YES key. Select the action and press the YES key.

```
Select Button
Button Lock [1]
```

Viewing the Signal Strength

On the control panel, enter the engineers menu and using the B and NO keys, scroll to '**DIAGNOSTICS**?' Press the YES key.

```
DIAGNOSTICS?
```

Press the NO key.

```
View PSUs?
```

To view the signal strength and battery levels of each wireless device, press the YES key.

```
View Wireless
Device Status?
```

Press the YES key to view the signal strength.

```
Signal Strength?
```

Press the YES key to view the input signal strength, for bells press the NO key

```
Inputs?
```

Use the B and D keys to select the wireless RIX address (each contains 8 wireless inputs) and press YES.

```
Wirls RIX Addrs
          [00]
```

The control panel will then begin analysing the wireless devices.

```
Please Wait
300
```

Once all devices have been found, numbers will be displayed on the screen, indicating the signal strength for each of the 8 available inputs:
3 = Excellent
2 = Good install position
1 = Weak install position (reposition and retest)
0 = Missing (reposition and retest) ? = Waiting for information

```
3333210-
```

The signal strength can also be viewed on the wireless device via the LEDs (GREEN = GOOD. RED = BAD). press the YES key for more information. Press the NO key to view the bells.

```
Input [08]
Not Learnt [---]
```

Follow the previous steps to view the signal strength for the bells.

To view the battery level on each wireless device press the YES key

```
Battery?
```

The battery levels shown on the display will be as follows:
Good = At least 1 month of battery life remaining
Replace = Battery will need replacing immediately
Testing = Waiting for the battery result Each input and bell is tested every 15 seconds.

```
Input      [09]
Testing    [---]
```

Learning Keyfobs

On the control panel, enter the master manager menu and using the B and NO keys, scroll to '**CHANGE CODES**?' Press the YES key.

```
CHANGE CODES?
```

To add a new user to the control panel. Press the YES key, or to edit/delete, press the NO key.

```
Add New User?
```

Use the B and D keys to select the user number that the keyfob is to be assigned to, and press the YES key.

```
Empty      [002]
```

Press and hold any button on the keyfob until the GREEN LED starts flashing and then release. Asterisks will appear on the display.

```
Enter User Code
       [******]
```

Enter a user name and press the YES key.

```
User Name
_
```

Use the B and D keys to select the button, and once the YES key is pressed, select the action of the button. Press the YES key.

```
Select Button
Lock        [1]
```