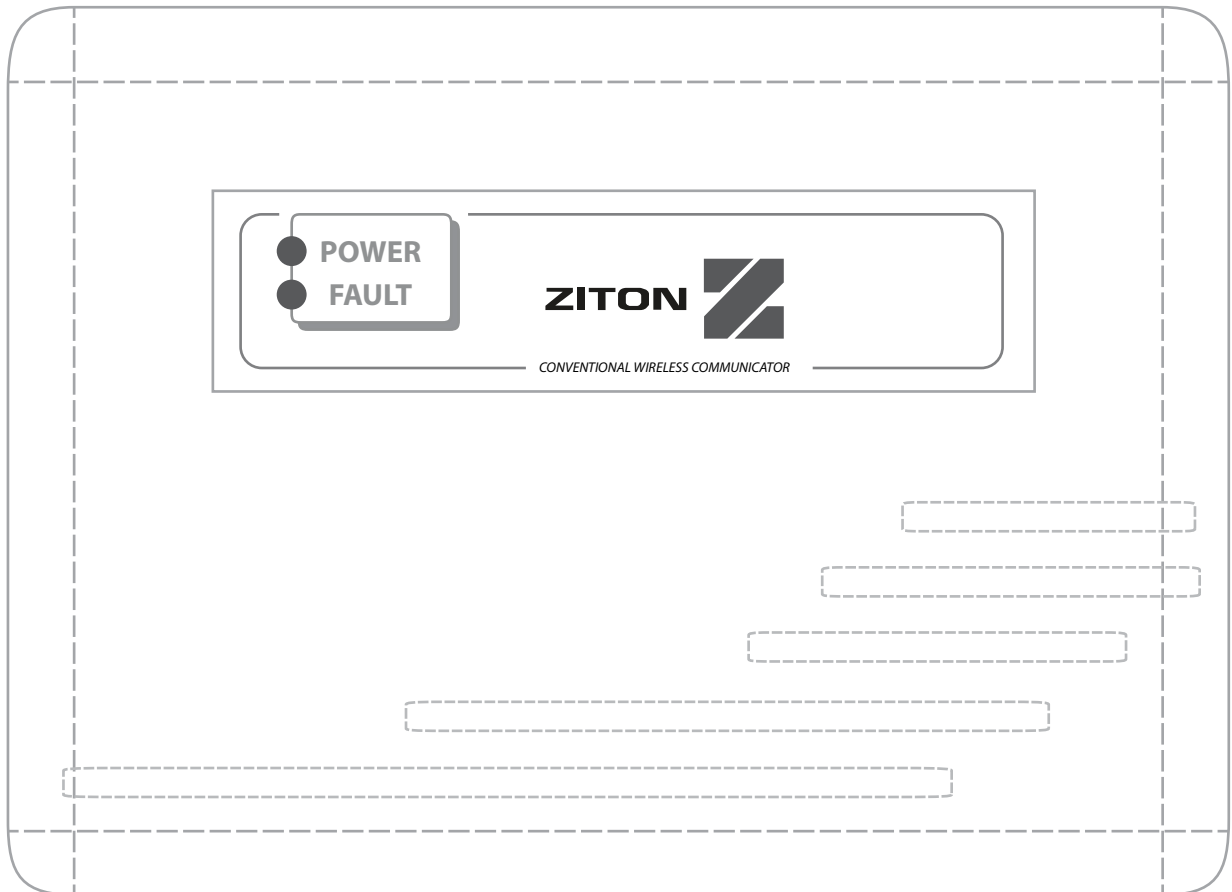




CONVENTIONAL WIRELESS COMMUNICATOR

ENGINEERS GUIDE

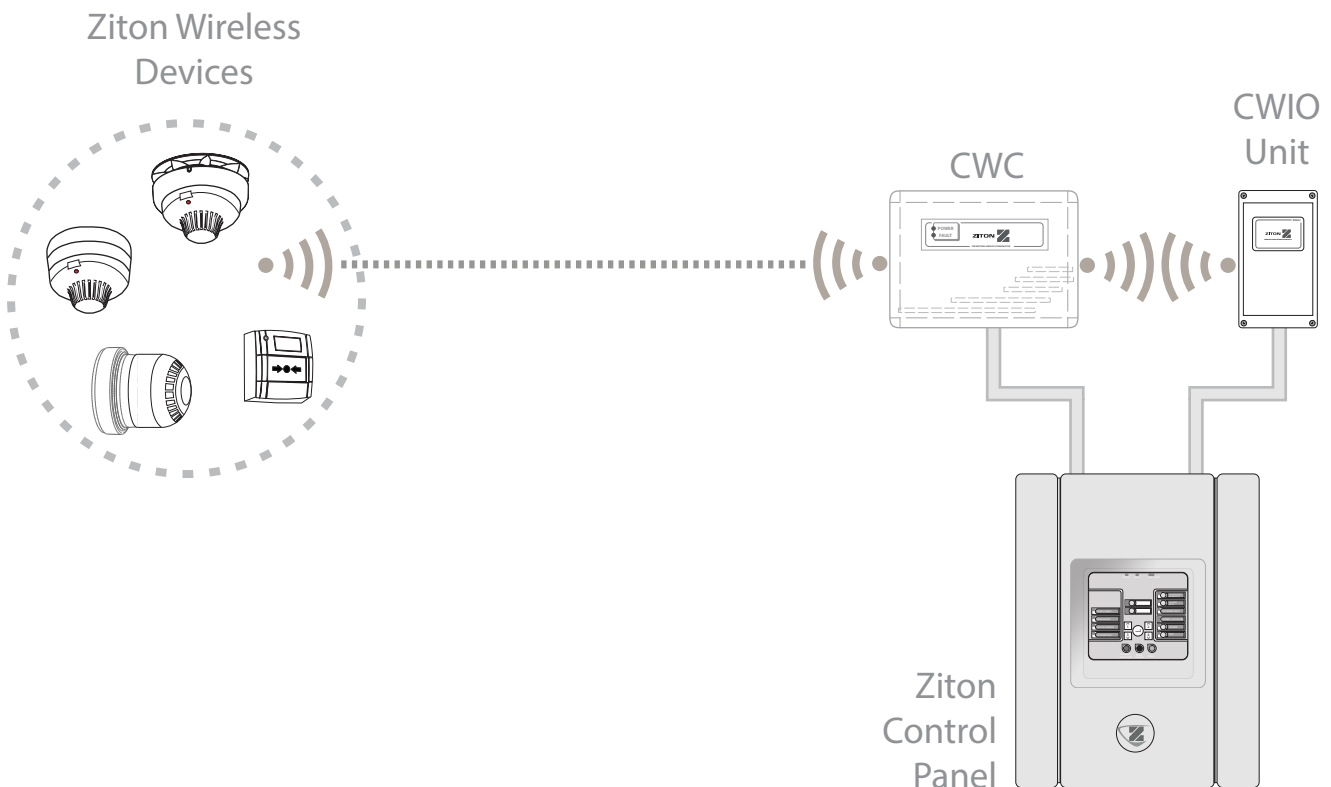
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Introduction

The Ziton Conventional Wireless Communicator (CWC) allows for 30 Ziton wireless devices to be added to an existing Ziton ZP1 Conventional Control Panel, in conjunction with a Ziton Conventional Wireless IO (CWIO) and the Ziton Conventional Interface Card (CIC) applied to the CWIO.

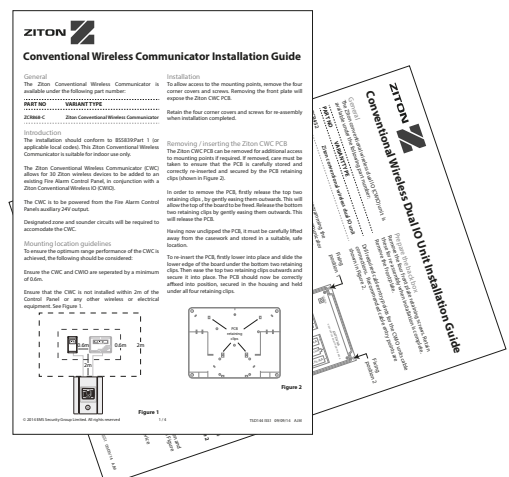
Alternatively, the CWC can be connected to an Addressable Control Panel in conjunction with a CWIO (with the CIC card removed). See the Wiring section for full connection details.



Step 1: Installation

Install the CWC and the CWIO Unit

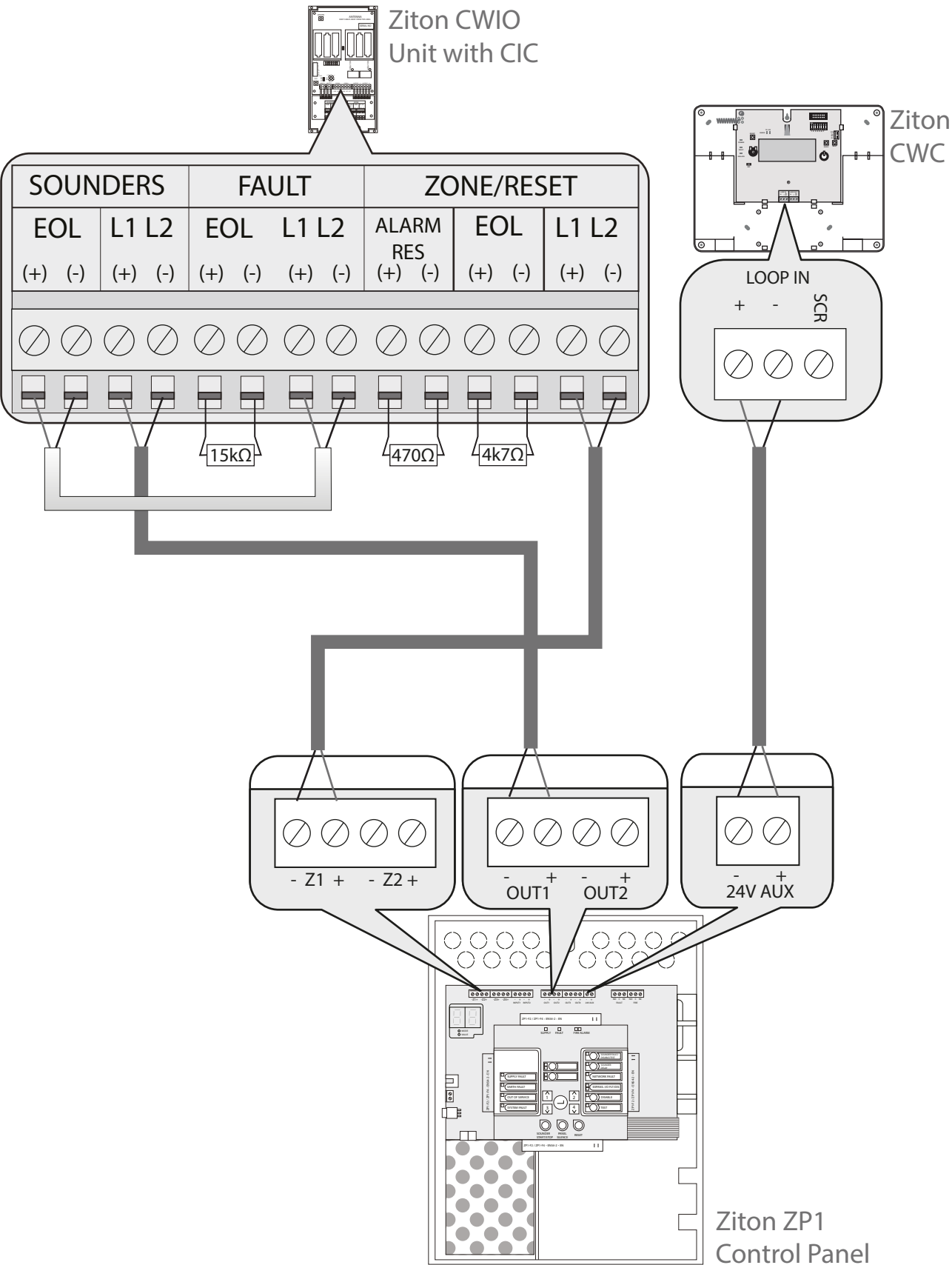
Refer to the Ziton Conventional Wireless Communicator Installation Guide (TSD144) and the Ziton Conventional Wireless IO Installation Guide (TSD145) for more information.



Step 2: Wiring

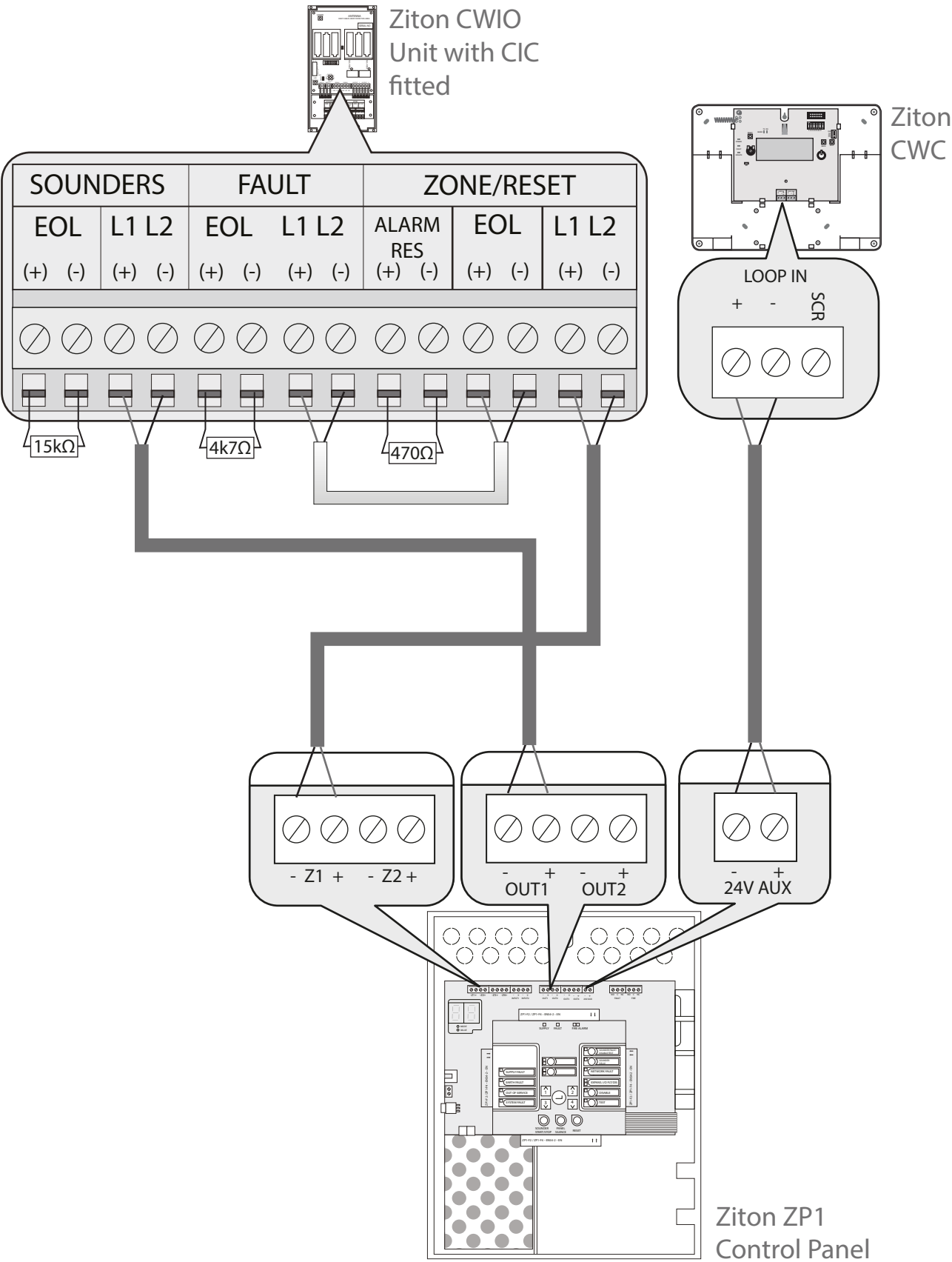
a) CWC to a Ziton ZP1 Conventional Control Panel

(providing fault notification on the sounder circuit)

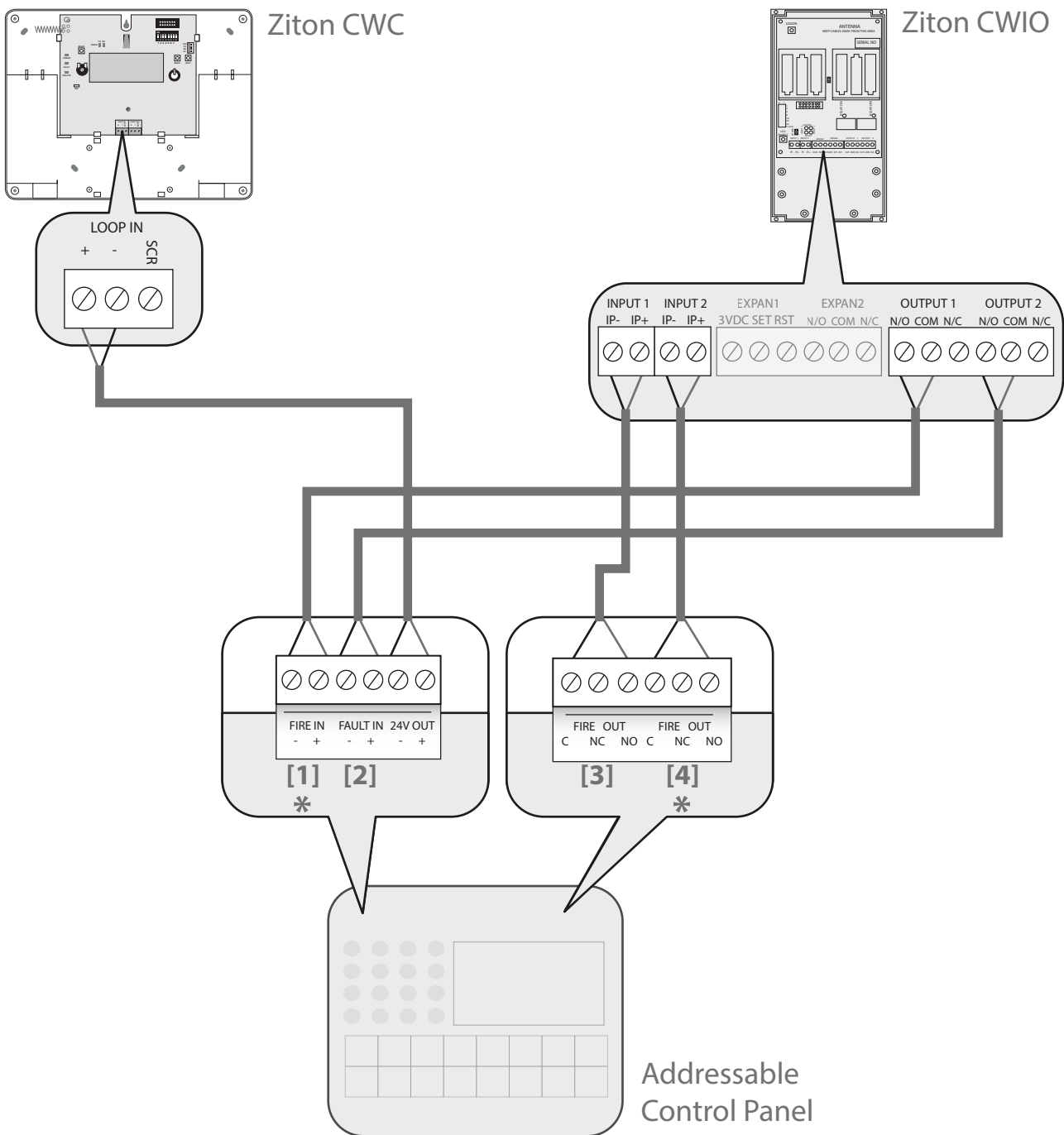


b) CWC to a Ziton ZP1 Conventional Control Panel

(providing fault notification on the zone circuit)



c) CWC to an Addressable Control Panel



[1] = Highlighted panel input requires configuring to generate a fire condition.

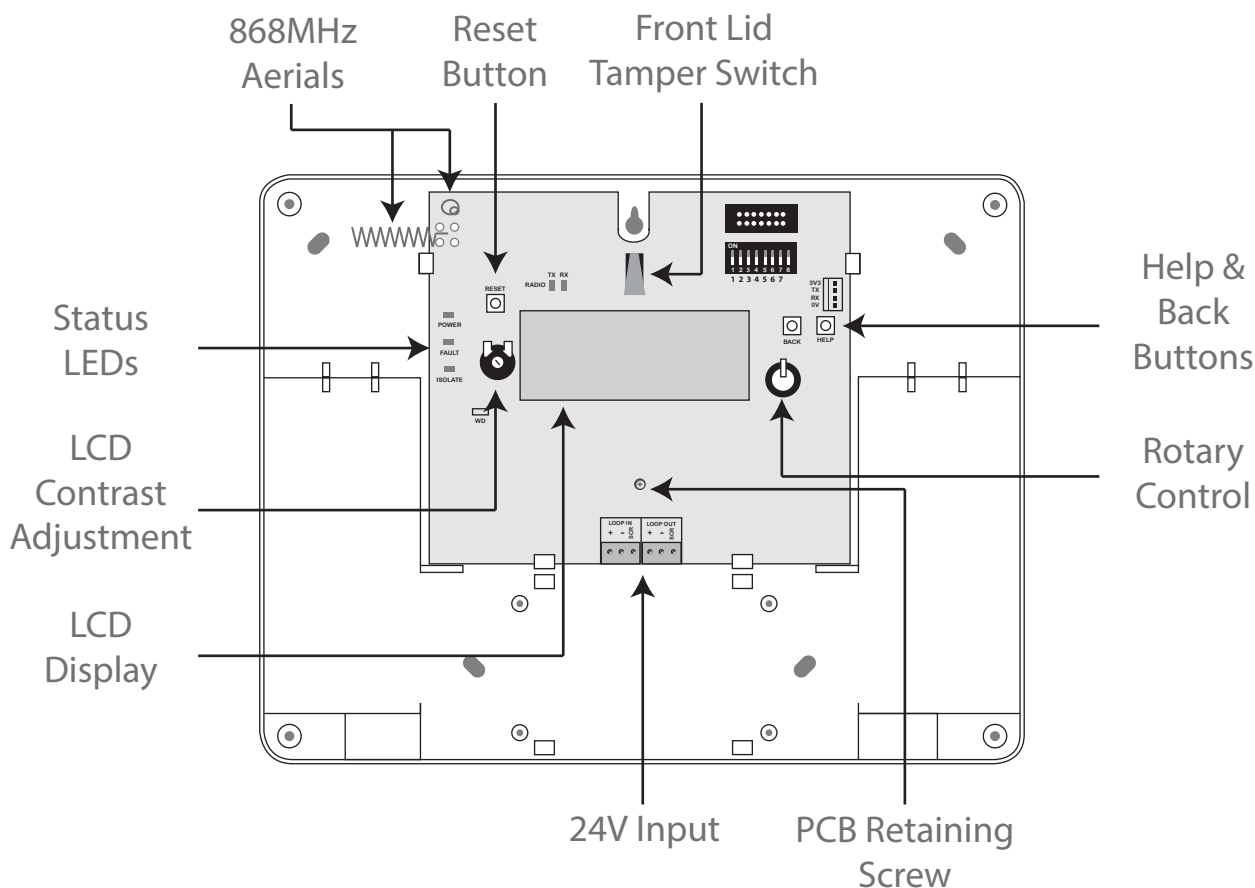
[2] = Highlighted panel input requires configuring to generate a fault condition.

[3] = Highlighted fire output requires configuring to return to its normal state on a control panel silence press.

[4] = Highlighted fire output requires configuring to return to its normal state on a control panel reset press.

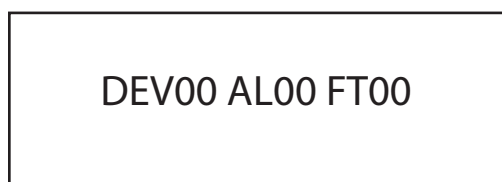
* = This connection is only required whilst fire detection is added to the CWC).

Conventional Wireless Communicator



Conventional Wireless Communicator Display

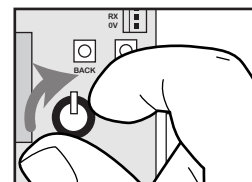
The front display of the CWC will show the number of devices that are allocated to the interface along with the total number of Alarms and Faults currently outstanding for devices allocated to the module. The DEV field shows the total number of devices allocated between 00-31. The AL field shows the amount of devices currently with outstanding Alarms and Pre-alarms ranging between 00-31. The FT field shows the amount of devices currently with outstanding Faults ranging between 00-31. An example display will show;



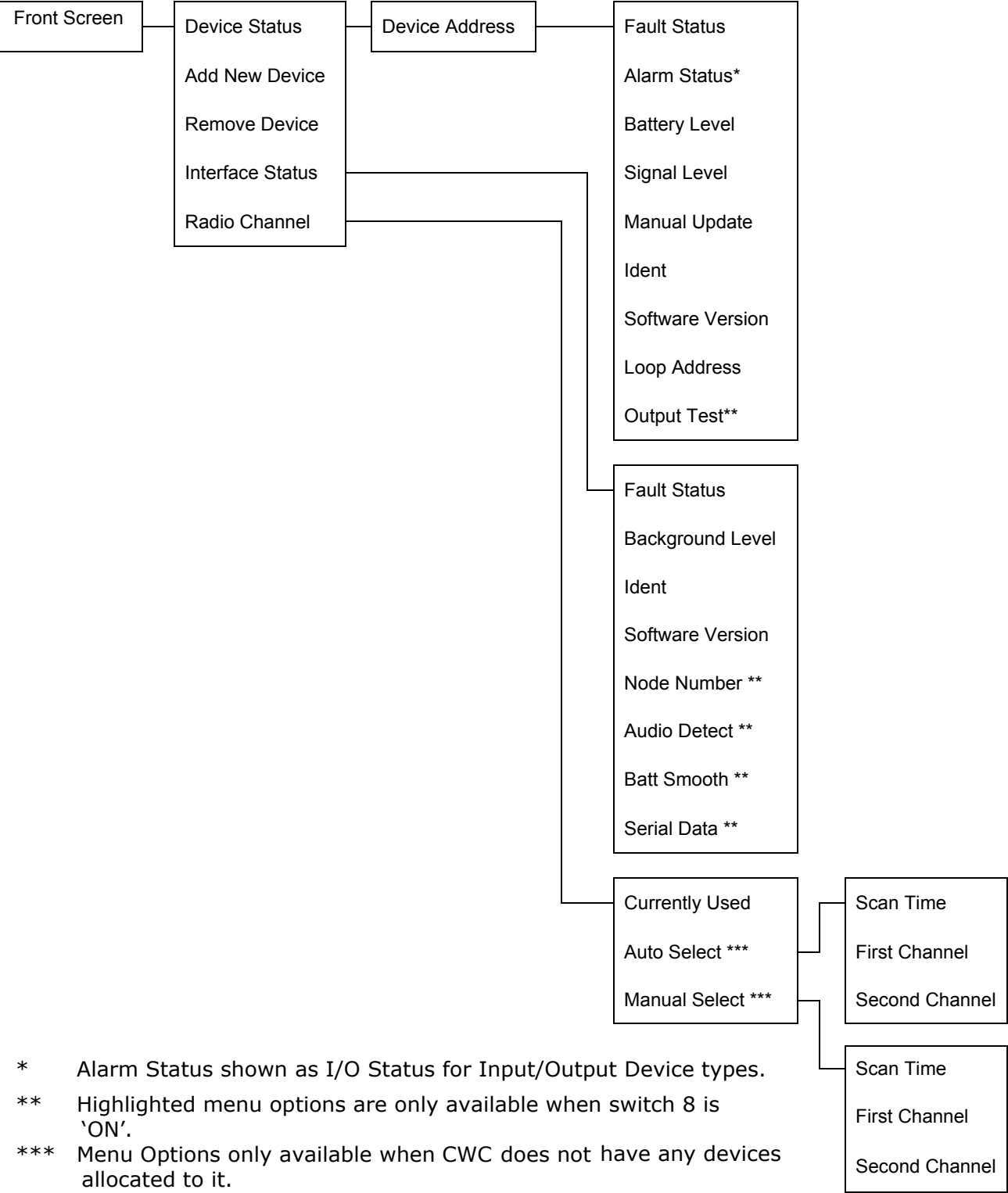
Conventional Wireless Communicator Rotary Control Operation



The Rotary Control is used to navigate the CWCs menu structure. It can be pressed and released to select a menu option. It can also be rotated to scroll through the available options.

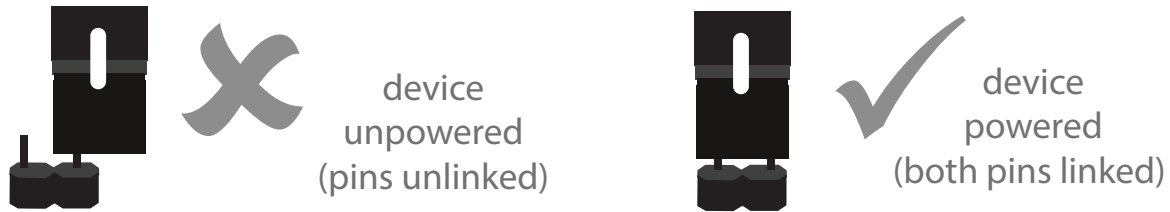


Conventional Wireless Communicator Menu Structure



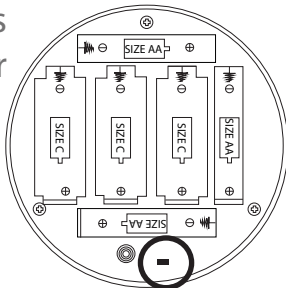
Step 3: Power Up the Devices

Detectors, Sounders, Call points, Input/Output Units and the Conventional Wireless IO have power jumpers that power the device as shown:

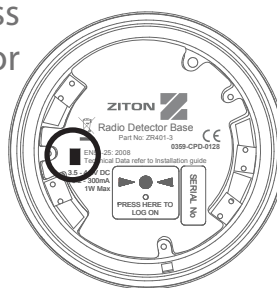


Power jumper locations are shown below:

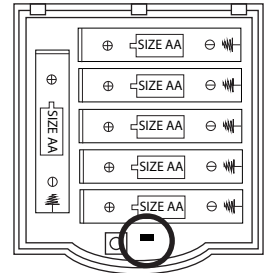
Wireless Sounder



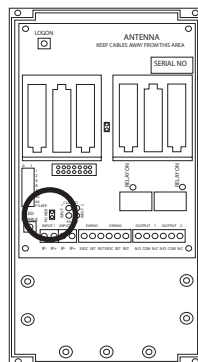
Wireless Detector



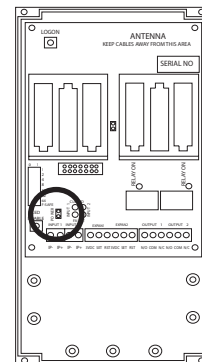
Wireless Call Point



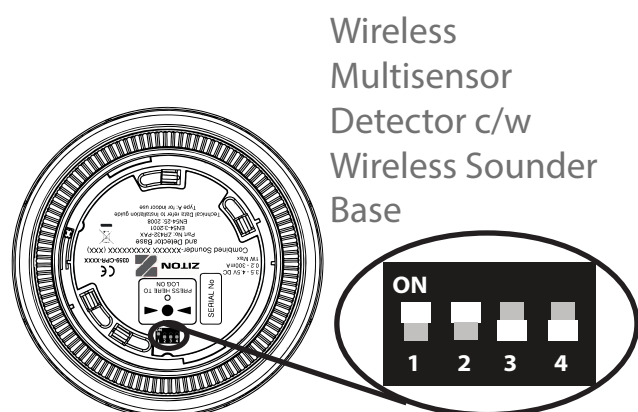
Wireless Input Output Unit



Wireless Conventional Wireless IO



Wireless Multisensor Detector c/w Wireless Sounder Bases are powered by changing the orientation of Switch 1 as shown:



Step 4: Log On the Devices

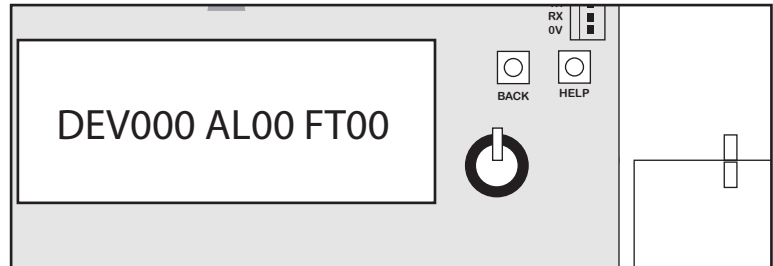
Programming is achieved **manually** within the menu structure of the CWC.



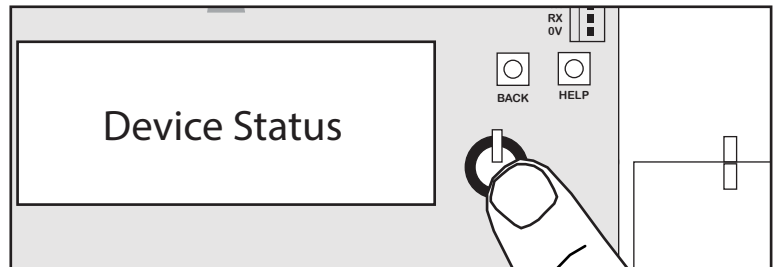
The Ziton Conventional Wireless IO (CWIO) must be logged on before adding other radio devices to the system.

The Log On process is as follows:

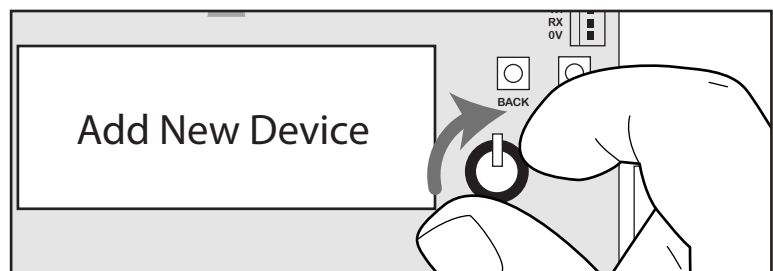
From Front display:



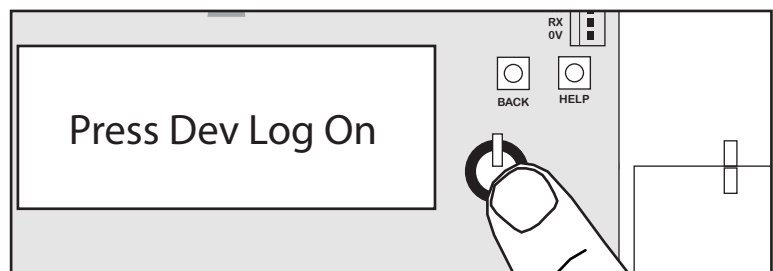
Click the rotary control, and the screen will display:



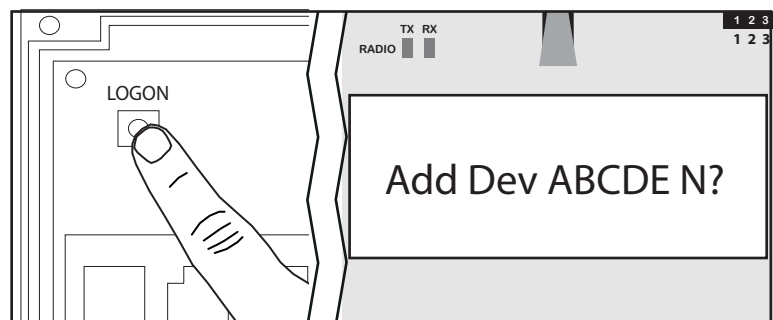
Turn the rotary control until the screen displays:



Click the rotary control, and the screen will display:



Press the device log on button for 3 seconds and the screen will display:

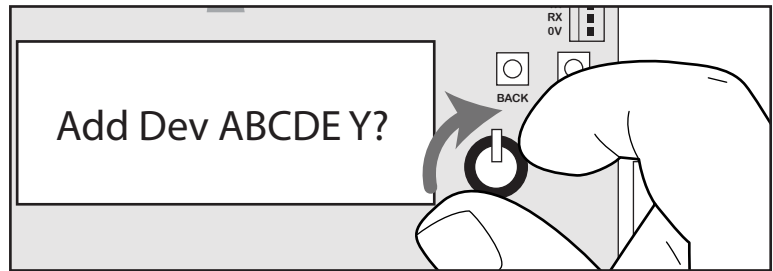


Step 4: Log On the Devices (continued)

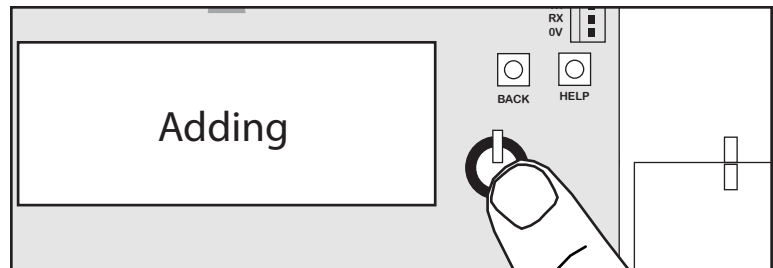
Turn the rotary control to change the N? to Y?

Where: N? = NO

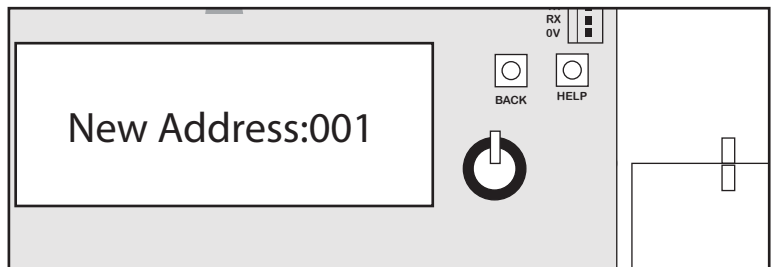
Y? = YES



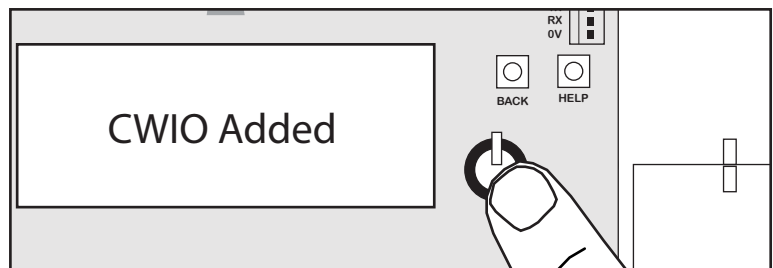
Click the rotary control and the screen will display:



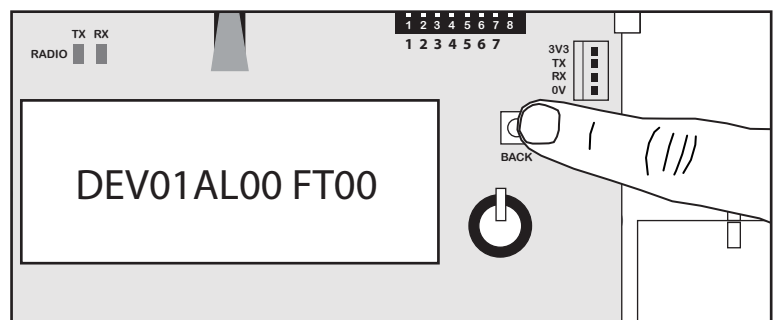
Followed by:



Click the rotary control and the screen will display::



The new device has been successfully added to the system. Once all of the required devices have been added to the system, press the back button repeatedly until the front screen is displayed:



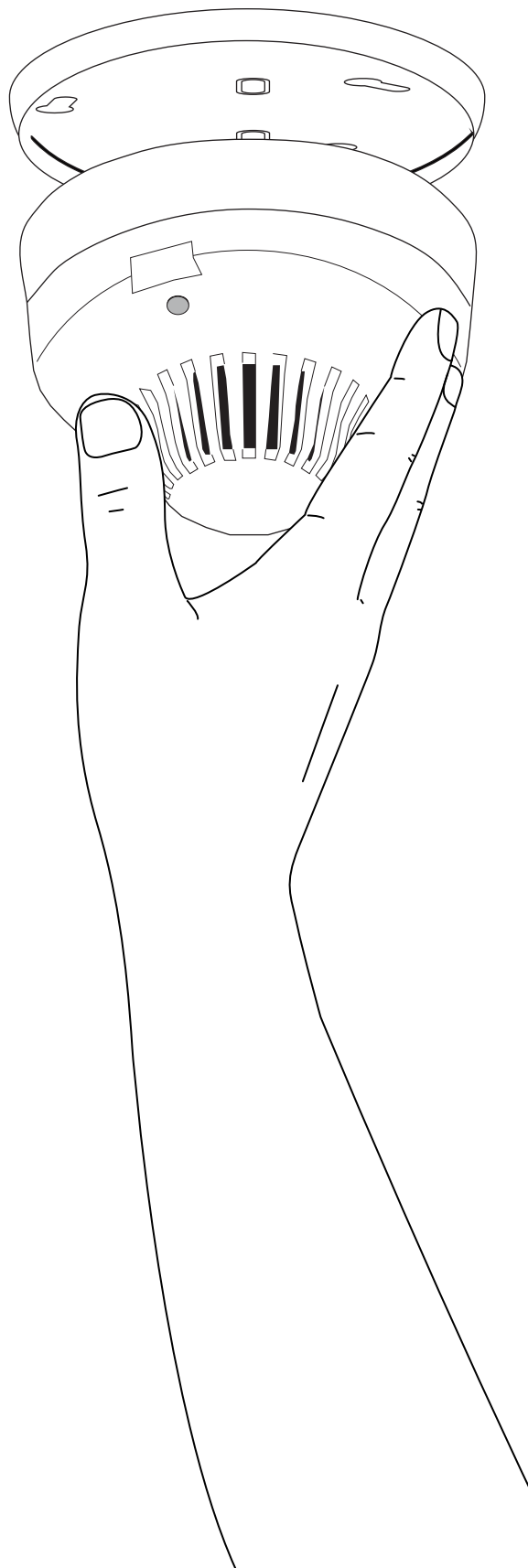
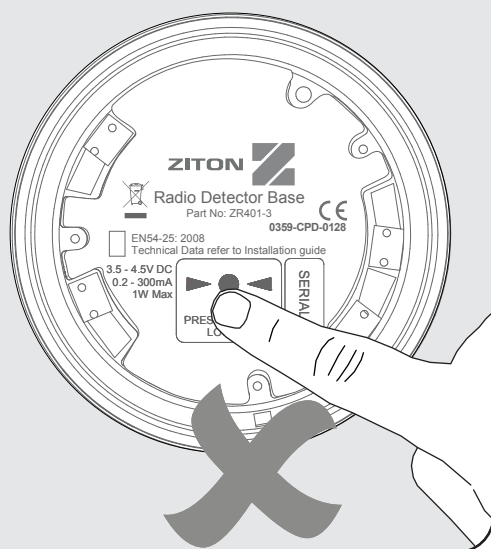
Step 5: Install the Wireless Ziton Devices

Refer to the associated device installation guides for more information.



Note

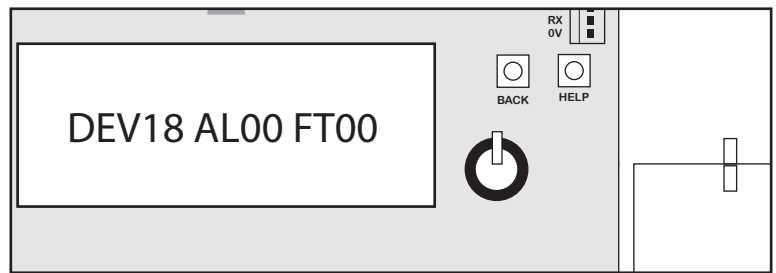
Do NOT Press the Log On button on a device that is logged on to the system as this will cause the communication with the WCW to be lost. Should this happen, delete the device from the system and add it back on.



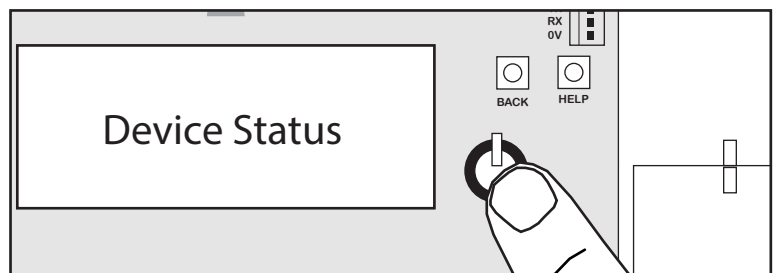
Signal Requirements

The signal levels for all wireless devices can be viewed as follows:

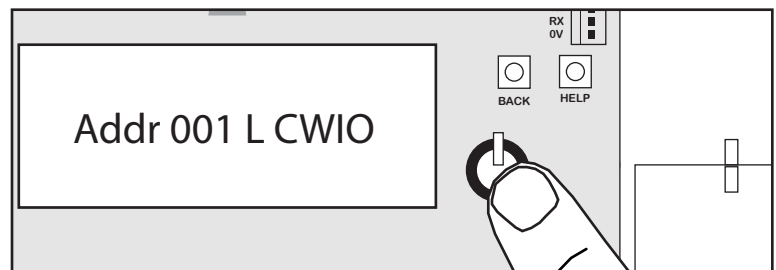
From Front display:



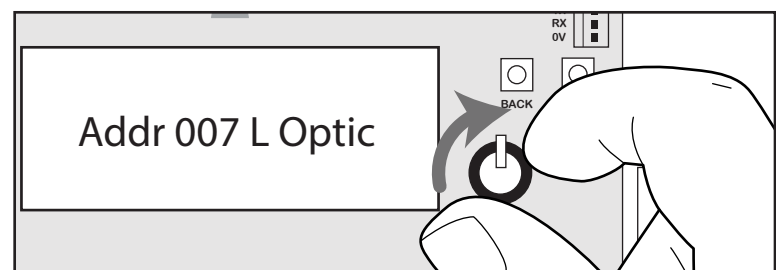
Click the rotary control, and the screen will display:



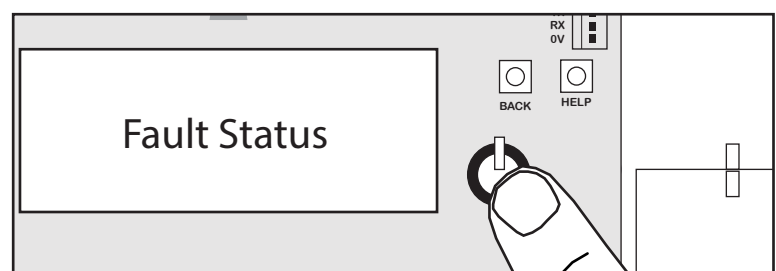
Click the rotary control, and the screen will display the first available device:



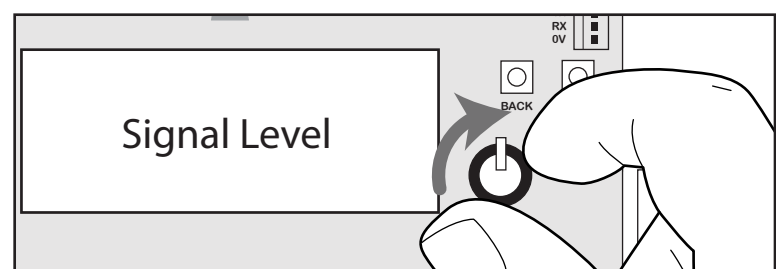
Turn the rotary control until the screen displays the required device:



Click the rotary control, and the screen will display:

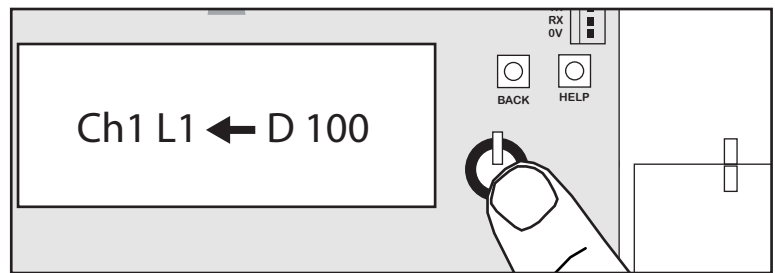


Turn the rotary control until the screen displays :

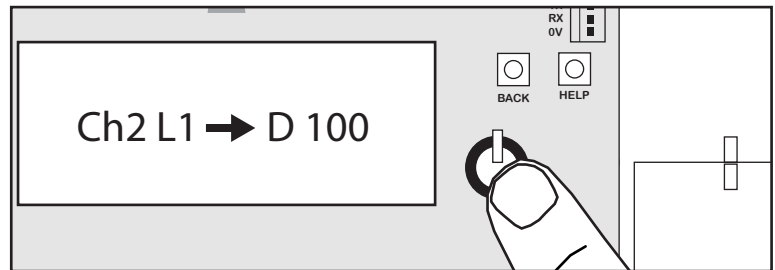


Signal Requirements (continued)

Click the rotary control, and the screen will display:



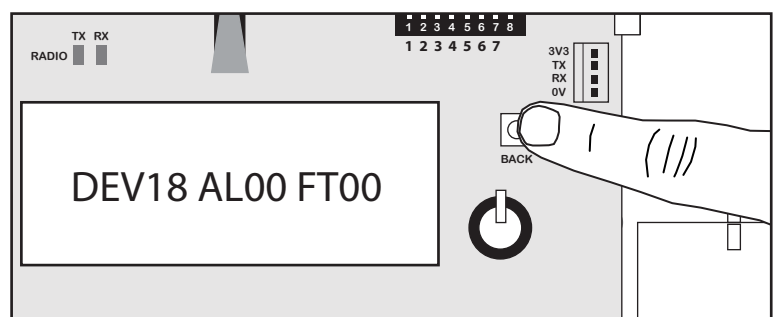
Click the rotary control, and the screen will display the first available device:



This above displays detail information on the two signalling channels used by the Conventional Wireless Communicator. The signal levels shown range from 100 - 0, with 100 being the highest signal to 0 where no signal is being seen, as shown below:

100	Shown indicates Good Signal Level
90	Shown indicates Good Signal Level
80	Shown indictates Good Signal Level
70	Shown indicates Good Signal Level
60	Shown indicates Good Signal Level
50	Shown indicates Good Signal Level
40	Shown indicates Medium Signal Level
30	Shown indicates Low Signal Level
20	Shown indicates Caution Signal Level
10	Shown indicates Caution Signal Level
0	Shown indicates No Signal Level Received

When all levels have been checked, press the back button repeatedly until the front screen is displayed:



Frequently Asked Questions

When using frequently asked questions, the following symbols are shown for the internal controls on the Conventional Wireless Communicator (CWC).



= Turn & Press Rotary Button to select relevant menu option.



= Press the Back Button to exit the menu.

Q; How do I remove a device from the system?

A; To remove a device on the CWC, select:

Front display Remove Device Select required device Remove xxxxx N?
 Remove Device xxxxx Y? 01 Removed Optic
 To Exit

Q; How do I replace a device on the system?

A; To replace a device on the system, the device must firstly be removed from the CWC (see above). Then the new device must be added to the system. (See previous Step 3 Log On Devices)

Q; I'm struggling to get detectors to go into fire upon routine test.

A; Check that the devices sensitivity is set correctly. Please see ZR432 detector installation sheet for settings

Q; My system is showing a device fault. How do I identify the type of fault?

A; To view devices currently in a device fault, select:

Front display Device Status Select required device Fault Status
 To Exit

CWC Fault Rectification

Fault symptoms and the relevant rectification processes are shown below:

Device Type	Symptom	Rectification Process
All Device Types	Battery Fault	Check all batteries are inserted correctly. Check voltage on batteries. Replace batteries if necessary or re-insert correctly.
Detector	Head Fault.	Check the head is fitted correctly. If the problem is not related to the Detector Head connection it is recommended that the Detector Head is replaced.
Sounder	No Sndr Audio.	Check for sounder audio. Also check the Audio Detect Switch on the wireless module. See device installation instructions for more information.
Detector & Sounder	Head Missing.	Check head in situ and check connectivity of head to base. The head missing fault will clear upon successful re-location.
All Device Types	In Tamper .	Check device is inserted correctly into its base.
I/O Unit & CWIO	Short Circuit / Open Circuit.	Check the 20k end of line resistor is in place and that connections are secure.
All Device Types	Signal Fault.	Check devices location to ensure no visible cause can be seen. Check devices signal level information in the Global Sig Stat menu. (See the 'How to improve device signal levels' section for more information).
Pre-Alarm	Pre Alarm.	Check device is in a clean environment and is free from smoke, dust and dirt.
Call Point	Fire.	Check the devices glass is in tact.
Alarm	Fire.	Ensure that the environment of the devices location is free of smoke residue and dust.

Troubleshooting (when connected to an Addressable Control Panel)

Sounders are not working.

Check the wiring from the CWIOs 'Input 1' to the Control Panels associated fire output.

The CWIOs 'Input 1' status will reflect the following:

20K Ω = Normal Condition (Sounders OFF)

3K3 Ω = Alarm Condition (Sounders ON)

Detectors LEDs are not switching off .

Check the wiring from the CWIOs 'Input 2' to the Control Panels associated fire output.

The CWIOs 'Input 2' status will reflect the following:

20K Ω = Normal Condition (Detector/Call Point LEDs OFF)

3K3 Ω = Alarm Condition (Detector/Call Point LEDs (ON)

I am getting a Fault Condition at the Control Panel.

This fault can occur for the following reasons:

A - Faults on the CWC.

B - The CWIO is not logged on to the CWC? Whilst the CWIO is not logged on, the CWIOs default output state is energised.

C - Check the wiring from the CWIOs 'Output 2' to the Control Panels associated fault input.

Note: If the Panel's 'Fault' input is end of line (EOL) monitored, ensure the manufacturers specified EOL component is fitted. See the Control Panel instructions for more information.

Detectors/Call Points are not triggering the Control Panel.

Check the wiring from the CWIOs 'Output 1' to the Control Panels associated fire input.

Note: If the Panel's 'Fire' input is end of line (EOL) monitored, ensure the manufacturers specified EOL component is fitted. See the Control Panel instructions for more information.

Troubleshooting (when connected to a Conventional Control Panel)

Sounders are not working.

Check the wiring from the CWIOs CIC cards 'Sounders - L1 L2' connection to the Control Panels connected Sounder Circuit.

Detectors LEDs are not switching off.

Check the wiring from the CWIOs CIC cards 'Zone - L1 L2' connection to the Control Panels connected Zone Circuit.

I am getting a Zone Fault Condition at the Control Panel.

This fault can occur for the following reasons:

A - Faults on the CWC. *(Only if CWC faults are monitored on the Zone Circuit).*

B - The CWIO is not logged on to the CWC? Whilst the CWIO is not logged on, the CWIOs default output state is energised. *(Only if CWC faults are monitored on the Zone Circuit).*

C - The fault may also relate to incorrect Zone Circuit wiring/missing end of line (EOL).

Ensure the manufacturers specified EOL component is fitted. See the Control Panel instructions for more information.

I am getting a Sounder Fault Condition at the Control Panel.

This fault can occur for the following reasons:

A - Faults on the CWC. *(Only if CWC faults are monitored on the Sounder Circuit).*

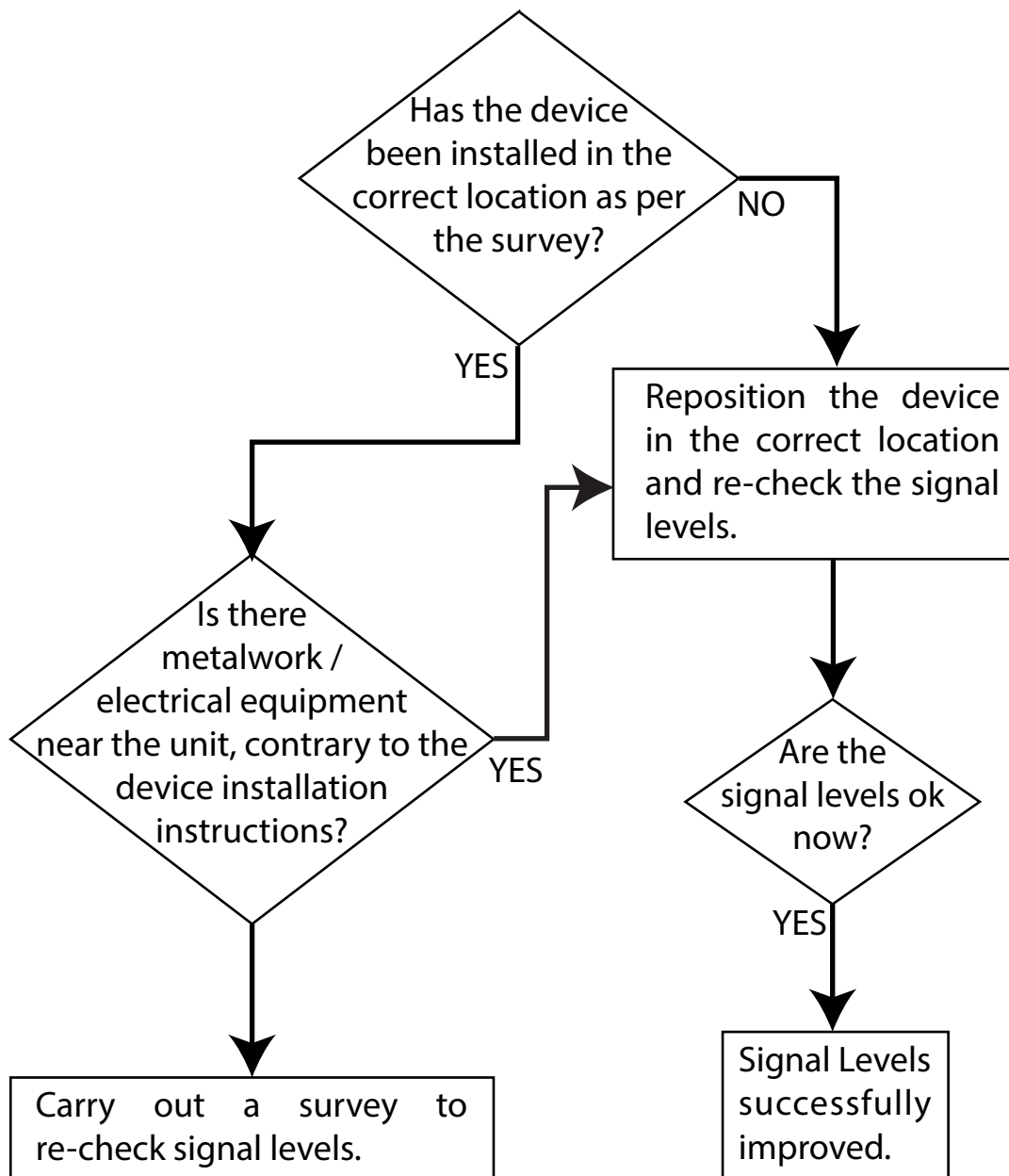
B - The CWIO is not logged on to the CWC? Whilst the CWIO is not logged on, the CWIOs default output state is energised. *(Only if CWC faults are monitored on the Sounder Circuit).*

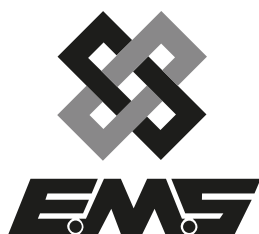
C - The fault may also relate to incorrect Sounder Circuit wiring/missing end of line (EOL).

Ensure the manufacturers specified EOL component is fitted. See the Control Panel instructions for more information.

How To Improve Device Signal Levels

Device signal levels can be improved by following the flowchart below:





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