

Fire



Wireless Programmer User Manual



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1 POWER UP AND SHUTDOWN

1.1 Power - Up

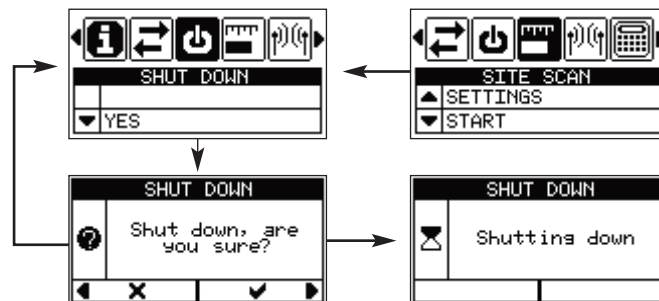
Figure 1



- Press the CENTRE button to power on the Wireless Programmer.

1.2 Shutdown

Figure 2



- Press the LEFT button to shut down the Wireless Programmer.
- Press the RIGHT button to return to the Main Menu.
- Alternatively press and hold the CENTRE button for 3 seconds at any screen to shut down the Wireless Programmer.

LOW BATTERY WARNING

Low Battery Warning

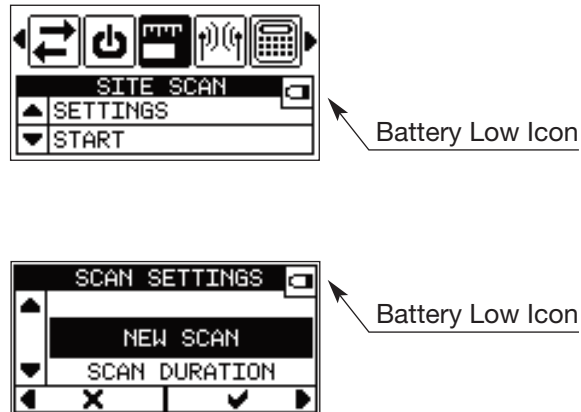
Figure 3

Once the battery voltage drops below the recommended operating voltage, an error message will be displayed for a few seconds.



Once the error message has been displayed the battery low icon will begin to flash as a reminder on all screens.

Figure 4



It is recommended that once the low battery warning appears that you finish the action you are currently doing (as any data could be lost in the event of loss of power) and then power down the unit. Replace the dead batteries with 3 new lithium AA batteries.

3.1 Overview

The Wireless Programmer is an essential tool for installing the wireless system. After a proposed site plan has been designed and the location of the panel and the remote devices has been selected, a site survey must be conducted. A site survey is critical for establishing the optimum system frequency for the installation site.

A site survey is split into two stages, a site scan and a site survey.

The site scan only requires a single unit that can be left unmanned while the scan is in progress. This scan is programmable in duration but will take a minimum of 36 minutes to complete. Each frequency is scanned for the programmed duration and will detect existing Cooper wireless systems in the vicinity, and will detect any high peaks in signal strength that could be other wireless systems close by. This scan will also check that the frequency the Wireless Programmers operate on is interference free and also the commissioning frequencies of the Cooper wireless panels / boosters.

A site survey requires 2 Wireless Programmers that have been paired together (see 5.6 and 5.8 for more details on pairing).

One unit must be configured to perform the site survey as the panel unit. This unit must always be positioned where the panel is intended to be installed and will remain in a frequency scan mode until it has been manually terminated. This unit can be left unmanned making this a single person process.

The other unit must be programmed to perform the site survey as the device unit. This unit is the mobile unit and will be positioned at each remote device position in turn. If the remote device is being positioned at person height then the unit can be held in the position where the device is intended to be installed. If the remote device is being positioned at height then an extendable pole can be used with the unit cradle. It is recommended that the mobile unit is positioned as close to the intended installation location as possible to get the most accurate results.

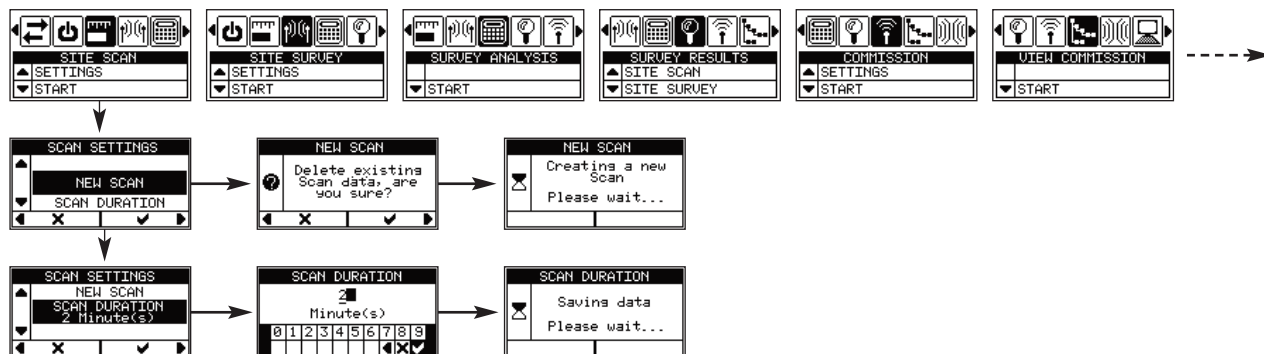
Before each frequency scan is performed a programmable delay will start to give you time to get the unit into position. If the unit is positioned by hand then the positioning delay can be bypassed. At the end of the delay the unit will automatically start a frequency scan by communicating with the panel unit. Each unit reports its background and receive signal strengths for all the available frequency channels. After all channels have been scanned the mobile unit will give an audible tone and the results will be displayed on the screen, along with a 'go' 'no-go' indication on the LEDs. If the position is a 'go' then the scan results can be saved to the database. If the position is a 'no-go' then move the unit to another location and wait a few seconds for the scan to restart automatically. The rescan can be manually terminated at any point.





3 SITE SURVEY

3.2 Channel Scanner Settings

Figure 5

This utility allows you to create a new site scan database or set the duration each frequency channel is scanned for. Once these configuration settings have been set ALL subsequent site scans will be executed with these settings.



	<ul style="list-style-type: none"> • Press the UP button to enter the settings menu.
	<ul style="list-style-type: none"> • Use the UP and DOWN buttons to scroll through the list of settings. • Press the LEFT button to return to the main menu. • Press the RIGHT button to change the highlighted setting.
	<p>With NEW SCAN highlighted:</p> <ul style="list-style-type: none"> • Press the RIGHT button to start a new site scan database. <p>ANY PREVIOUS SCAN DATA WILL BE LOST.</p>
	<p>With SCAN DURATION highlighted:</p> <ul style="list-style-type: none"> • Press the RIGHT button to activate the keyboard. • Enter the scan duration in MINUTES per frequency channel (refer to A3 - KEYBOARD SCREEN on how to use the keyboard).

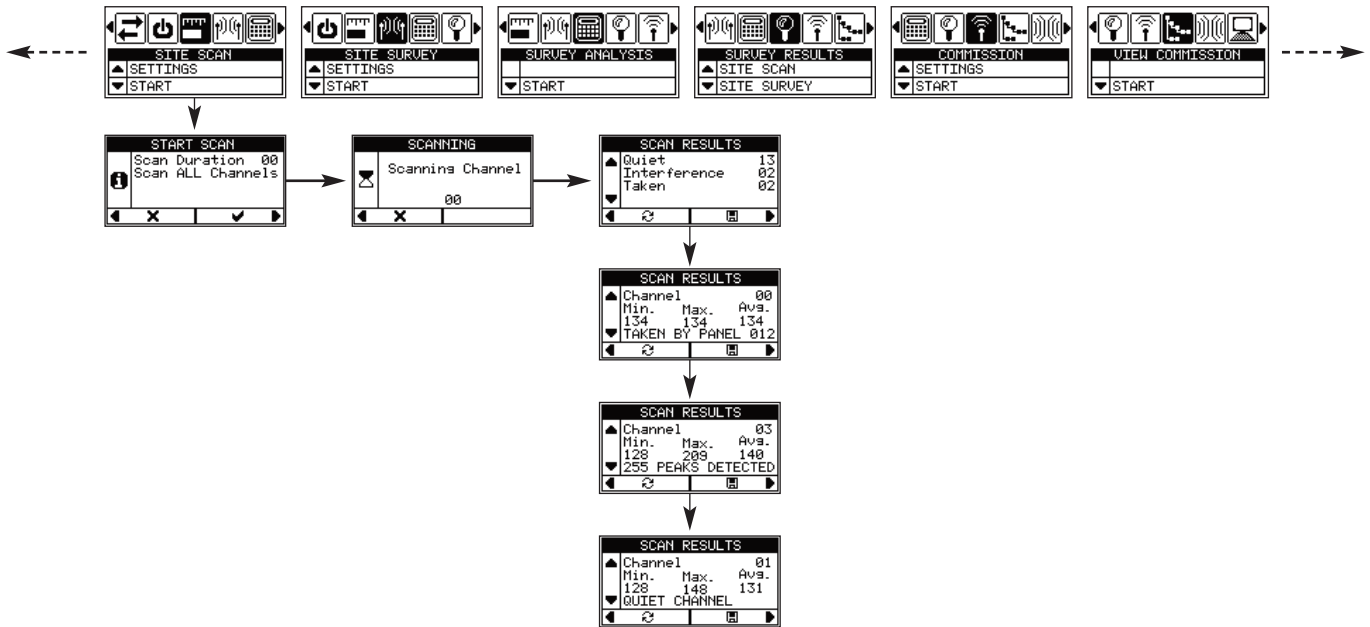
3 SITE SURVEY

3.3 Channel Scanner



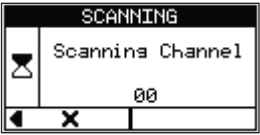

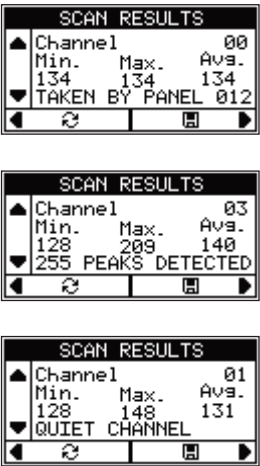
Figure 6

This utility is only available on the unit set 'As device'.

On first activating this utility a settings summary screen is displayed so you know exactly what the scan has been set to do. After confirming the settings the scan will commence. The utility will scan all 15 system channels as well as the Wireless Programmer channel and the Commissioning channels for the scan duration set. The unit will give an audible beep at the end of each channel scan. Once all channels have been scanned the unit will give a continuous tone for several seconds. If there was noise detected on either the Wireless Programmer channel or the Commissioning channels then a warning screen will be displayed for a few seconds. A summary screen of the results will be displayed indicating how many of the 15 channels were quiet, had some level of interference, or is already taken by an existing Cooper wireless panel. Scrolling down the list of results will show the detailed results per individual channel.



3 SITE SURVEY

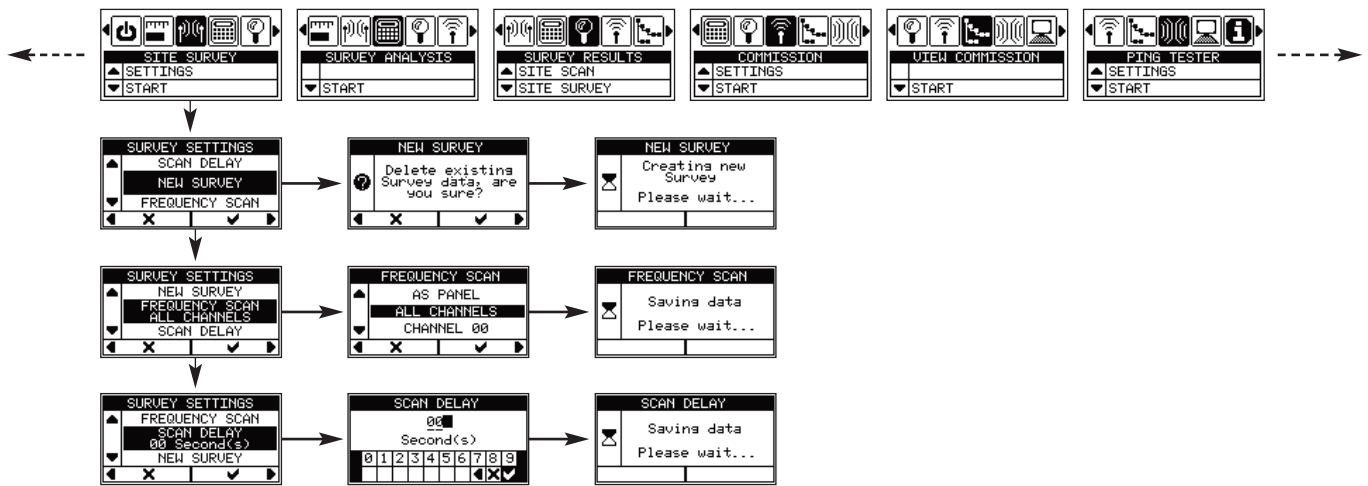
	<ul style="list-style-type: none"> • Press the DOWN to start the scan on the programmed settings.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the main menu. • Place the unit in a central location with the aerial in a vertical orientation, then press the RIGHT button to start the scan.
	<ul style="list-style-type: none"> • The unit can now be left unmanned until the end of the scan.
	<ul style="list-style-type: none"> • Press the LEFT button to discard the results and start the scan again. • Press the RIGHT button to save the results to the database. • If you are not present when this screen is displayed the unit will automatically save the results.
	<ul style="list-style-type: none"> • Pressing the UP and DOWN buttons allows you to examine the detailed results per channel. • The bottom line gives you a description of the results. <ul style="list-style-type: none"> ○ If the channel is taken by another Cooper wireless panel then it will be identified by its system ID. This means that this channel CANNOT be used for the new site. ○ If there are a number of high peaks detected on the channel then this means there is likely some other wireless device using this channel or some equipment generating noise on that channel. Avoid using channels with a high number of peaks. ○ If there is no other Cooper wireless panel on the channel and there were no high RSSI peaks then the channel will be classed as quiet. This is the optimum result and gives the best indication of which channels could be used for the new site (pending the results of the site survey).


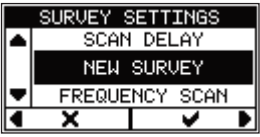
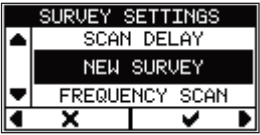
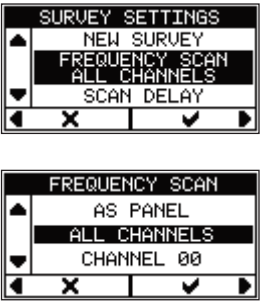
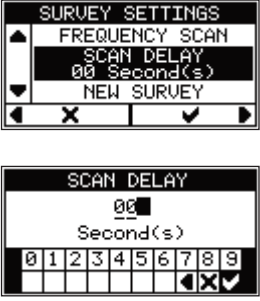
3 SITE SURVEY

3.4 Site Survey Settings

Figure 7

This utility allows you to create a new site survey database, set the position unit delay and set how the unit will perform the survey. Once these configuration settings have been set ALL subsequent site surveys will be executed with these settings.



	<ul style="list-style-type: none"> Press the UP button to enter the settings menu.
	<ul style="list-style-type: none"> Use the UP and DOWN buttons to scroll through the list of settings. Press the LEFT button to return to the main menu. Press the RIGHT button to change the highlighted setting.
	<p>With NEW SURVEY highlighted:</p> <ul style="list-style-type: none"> Press the RIGHT button to start a new site survey database. <p>ANY PREVIOUS SURVEY DATA WILL BE LOST.</p>
	<p>With FREQUENCY SCAN highlighted:</p> <ul style="list-style-type: none"> Press the RIGHT button to activate the scroll list. If you want the unit to be placed at the Panel location then select “As Panel” from the list. If you want the unit to be placed at the device locations and to perform a full channel scan then select “All Channels” from the list. If you want the unit to be placed at the device locations but only perform a scan on a single channel then select the required channel number from the list.
	<p>With SCAN DELAY highlighted:</p> <ul style="list-style-type: none"> Press the RIGHT button to activate the keyboard. Enter the scan delay in SECONDS to allow the unit to be positioned (refer to A3 - KEYBOARD SCREEN on how to use the keyboard).

3 SITE SURVEY

3.5 Site Survey

NOTE 1: If the two units have not been paired together then a site survey will not be permitted. A site survey should always be conducted with the two units supplied in the kit. Do not mix and match units from different survey kits.

NOTE 2: It is highly recommended that the devices on the site plan are numbered in the order they will be commissioned to the Panel. This will allow the survey data for that device to be stored with the same address.

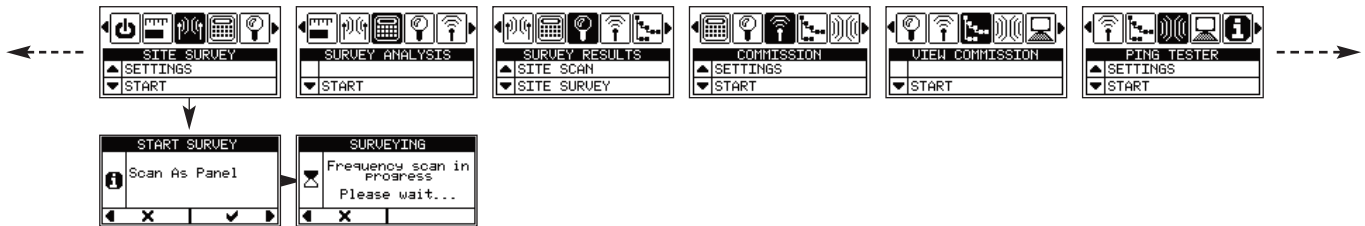
The unit programmed as the Panel unit (i.e. set to "Scan As Panel") must be placed in the location where the Panel will be installed. Starting the site survey utility will place the unit in a permanent frequency scan mode that can only be terminated manually. This unit can be left at the Panel location unmanned, making this survey a one man operation.


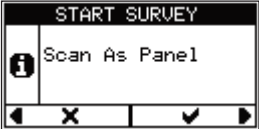
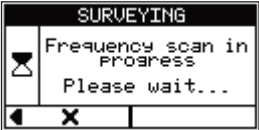
The unit programmed as the Device unit (i.e. set to Scan ALL Channels) must be placed in the location where a device is intended to be installed. If the location is too high for the unit to be held then use an extendable pole and the supplied cradle. When starting the survey a settings summary screen will appear so you know exactly what the survey has been set to do. After confirming the settings the position unit delay will commence (providing it hasn't been disabled, i.e. a delay of 0) and will continue to beep for the duration of the delay. Once the position delay has elapsed the unit will talk to the Panel unit on every available system channel and the commissioning channel. Once all channels have been scanned the unit will display a summary results screen, this will identify whether the commissioning channel was OK, how many of the system channels were excellent or good quality, and how many had failed. It will also provide a visual 'go', 'no go' indication. Accepting these results will prompt the unit to ask you the address of the position surveyed. Make sure this address matches the soft address the device will be commissioned onto the Panel. This will make it simpler to relate the survey data to the site plan.

3.5.1 Survey as Panel

Figure 8

One of the paired units must be configured with the “Frequency Scan” set to “As Panel”. This is the unit that will be left in the intended location of the Panel.



	<ul style="list-style-type: none"> • Press the DOWN button to start a site survey using the programmed settings.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the main menu. • Press the RIGHT button to start the survey.
	<ul style="list-style-type: none"> • Press the LEFT button to abort the survey scan and return to the start screen. • After about 30 seconds the unit will enter a power saving mode where the screen will go blank. • Pressing any button will turn the screen back on again. • The unit will periodically flash its LED and beep it's buzzer to give an indication that the unit is powered and running.

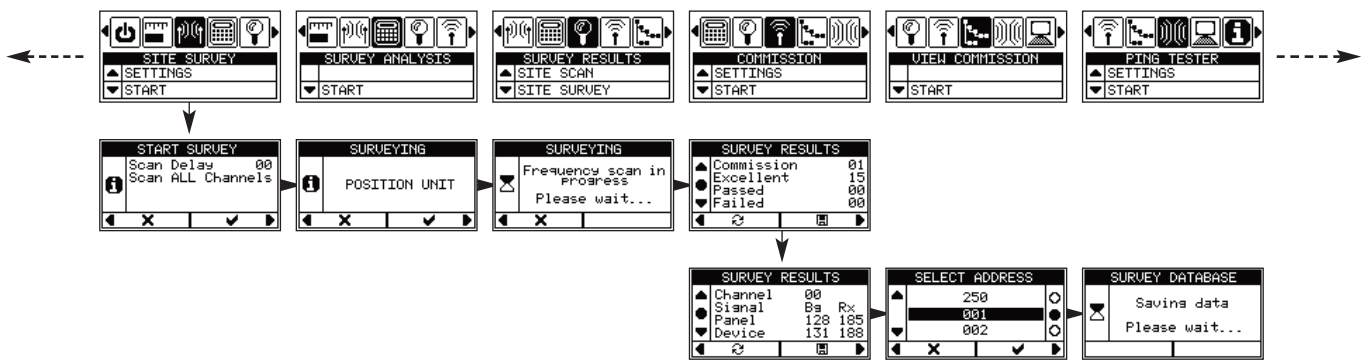
3 SITE SURVEY

3.5.2 Survey as Device


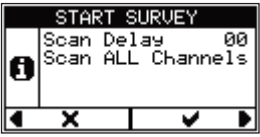
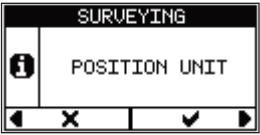
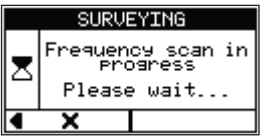

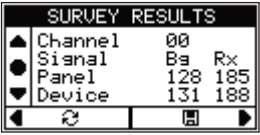
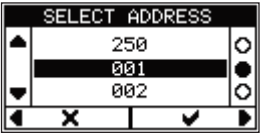
Figure 9

IMPORTANT: It is critical to do the survey as device on the same unit that the site scan was performed on, otherwise when a survey analysis is performed it cannot combine the two sets of results and give an accurate conclusion.

One of the paired units must be configured with the “Frequency Scan” set to anything other than “As Panel” (recommended setting is “All Channels”). This is the unit that will be taken to each device location.



3 SITE SURVEY

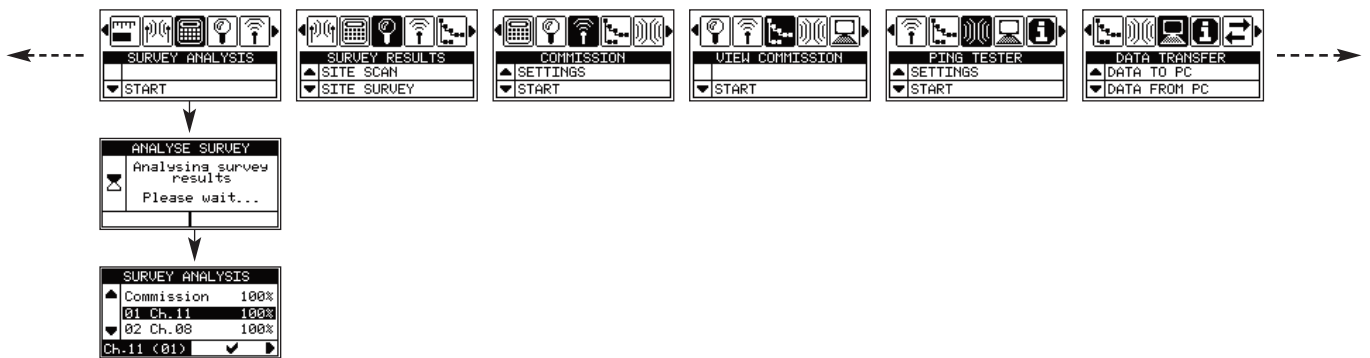
	<ul style="list-style-type: none"> Press the DOWN button to start a site survey using the programmed settings.
	<ul style="list-style-type: none"> Press the LEFT button to return to the main menu. Press the RIGHT button to start the survey.
	<ul style="list-style-type: none"> An audible beep will be sounded while the unit positioning delay is active. If the device position is reachable by hand then hold the unit in place, with the aerial in a vertical orientation, and the press the RIGHT button to bypass the position delay. If the device position requires the extendable pole then hold the pole so the unit is in the required device location, and hold it there. The survey scan will commence at the end of the position delay. Press the LEFT button to abort the survey scan and return to the start screen.
	<ul style="list-style-type: none"> Press the LEFT button to abort the survey scan and return to the start screen. The unit will beep after each channel has been scanned.
	<ul style="list-style-type: none"> Once the survey has been completed a summary screen will appear with a 'Go', 'No Go' indication on the Green or Red LED. A solid circle in the scroll bar also indicates a 'Go' and an opaque circle indicates a 'No Go'. If the Green LED illuminates then at least one channel passed the survey. If the Red LED illuminates then the scan either failed on the commission channel or none of the system channels passed the survey. The unit will automatically return to the position unit screen after a couple of seconds to allow a rescan after moving the unit to a different location (a couple of inches in either direction can make a difference). Press the LEFT button to discard the results and start the scan again. Press the RIGHT button to save the results to the database.
	<ul style="list-style-type: none"> Pressing the UP and DOWN buttons allows you to examine the detailed results per channel. The Receive (Rx) level should be at least 15 above the Background (Bg) level for the channel to pass the survey. A 'Go', 'No Go' indication will appear on the Green or Red LED. A solid circle in the scroll bar also indicates a 'Go' and an opaque circle indicates a 'No Go'. If the Site Scan found this channel to be in use or had a high peak count then this channel will be classed as a 'No Go' channel regardless of the survey results.
	<ul style="list-style-type: none"> When saving the results the unit will ask what address has been assigned to the location on the site plan. An address with a solid black circle at the side means that the address already has survey data associated with it. Selecting this address will overwrite the existing survey data with the new data. An address with an opaque circle means that the address hasn't already been surveyed.


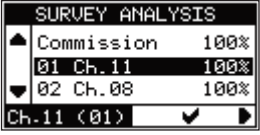
3 SITE SURVEY

3.6 Analyse Survey

Figure 10

This utility analyses the channel scan results in conjunction with the survey results to determine which channel is best suited for the site. The unit will grade each channel based on the quality of signal per device location along with the quietness of the channel during the site scan. The unit will then list the channels in the order they have been graded (1 being the best quality) along with a percentage of positions that passed on that channel. The unit will then select the best channel and also give a count of channels that are identical in quality.



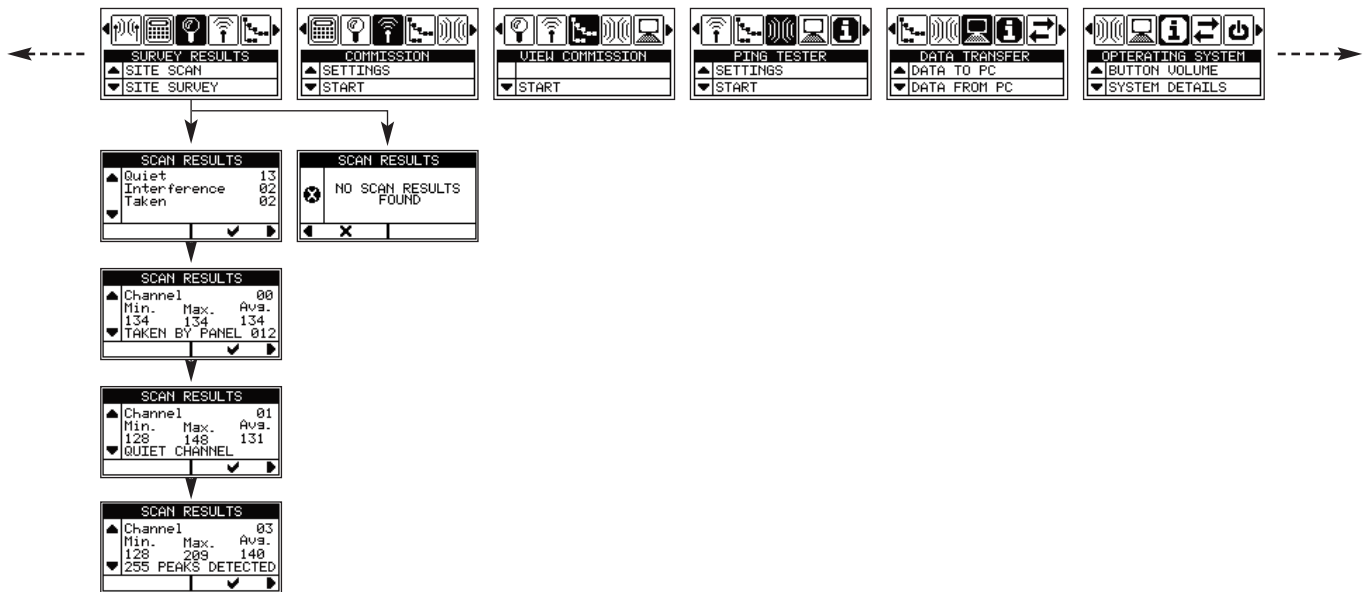
	<ul style="list-style-type: none"> • Press the DOWN button to analyse the survey results.
	<ul style="list-style-type: none"> • The Commission channel is never ranked as the channel is always required by the system. This needs to reach 100% before a site can be commissioned. • The Booster commission channel is never ranked as the channel is always required by Booster only. • Each channel is listed in the order they have been ranked. The first two digits indicate the ranking for this channel (1 being the best quality). Multiple channels can have the same rank. • All channels that are in use will appear at the bottom of the list as the lowest ranking channels and will show "USED" instead of the percentage. • The highest ranking channel will be displayed in the bottom left hand corner of the screen along with a count of the number of channels with the same rank. If the count is 1 then the channel shown is the only channel at the highest rank. • If the percentage for the highest channel is not 100% then this means that 1 or more of the surveyed positions failed on that channel. It is recommended to find these locations and redo their survey in a slightly different position (a couple of inches can make a difference in certain environments). • If a site survey has not been conducted then all percentages will be at 0% all ranks will be 0 and no channel will be recommended.



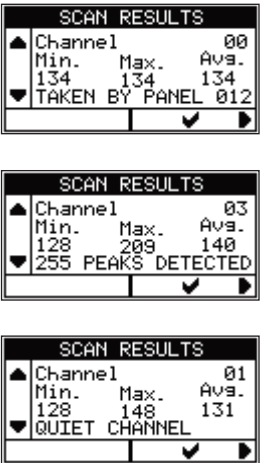
3 SITE SURVEY

3.7 Site Scan Results

Figure 11

This utility allows you to view the site scan results in the same format as the end of the site scan utility.



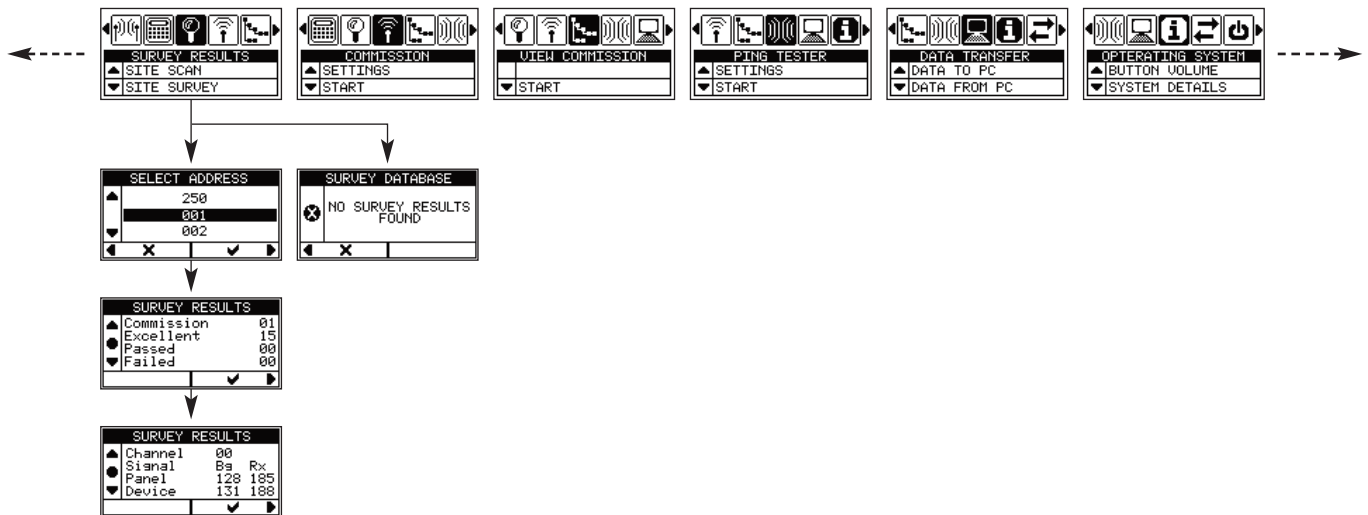
	<ul style="list-style-type: none"> • Press the UP button to view the site scan results.
	<ul style="list-style-type: none"> • Press the RIGHT button to return to the main menu.
	<ul style="list-style-type: none"> • Pressing the UP and DOWN buttons allows you to examine the detailed results per channel. • The bottom line gives you a description of the results. <ul style="list-style-type: none"> ○ If the channel is taken by another Cooper wireless panel then it will be identified by its system ID. This means that this channel CANNOT be used for the new site. ○ If there are a number of high peaks detected on the channel then this means there is likely some other wireless device using this channel or some equipment generating noise on that channel. Avoid using channels with a high number of peaks. ○ If there is no other Cooper wireless panel on the channel and there were no high RSSI peaks then the channel will be classed as quiet. This is the optimum result and gives the best indication of which channels could be used for the new site (pending the results of the site survey).


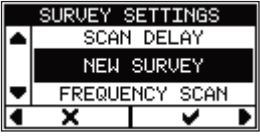
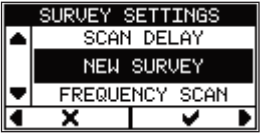

3 SITE SURVEY

3.8 Site Survey Results

Figure 12

This utility allows you to view the site survey results in the same format as the end of the site survey utility.



	<ul style="list-style-type: none"> • Press the DOWN button to view the site survey results.
	<ul style="list-style-type: none"> • Only the addresses that have been surveyed will be listed. • Press the LEFT button to return to the main menu. • Press the RIGHT button to view the highlighted address. • Press the UP and DOWN buttons to scroll through the surveyed addresses.
	<ul style="list-style-type: none"> • The summary screen will appear with a 'Go', 'No Go' indication on the Green or Red LED. A solid circle in the scroll bar also indicates a 'Go' and an opaque circle indicates a 'No Go'. • If the Green LED illuminates then at least one channel passed the survey. • If the Red LED illuminates then the scan either failed on the commission channel or none of the system channels passed the survey. • Press the RIGHT button to return to the address list.
	<ul style="list-style-type: none"> • Pressing the UP and DOWN buttons allows you to examine the detailed results per channel. • The Receive (Rx) level should be at least 15 above the Background (Bg) level for the channel to pass the survey. • A 'Go', 'No Go' indication will appear on the Green or Red LED. A solid circle in the scroll bar also indicates a 'Go' and an opaque circle indicates a 'No Go'. • If the Site Scan found this channel to be in use or had a high peak count then this channel will be classed as a 'No Go' channel regardless of the survey results.

4 COMMISSIONING

4.1 Overview

The Wireless Programmer is an essential tool for commissioning the wireless devices to the wireless control panel. After a site has been surveyed and suitable locations for each device has been established then the devices can be installed at those locations and commissioned to the control panel. Once a wireless device has been powered by the required number of AA batteries, the device will remain in a dormant state.

Commissioning only requires a single Wireless Programmer, which can be either unit.

There are two modes of commissioning via the Wireless Programmer.

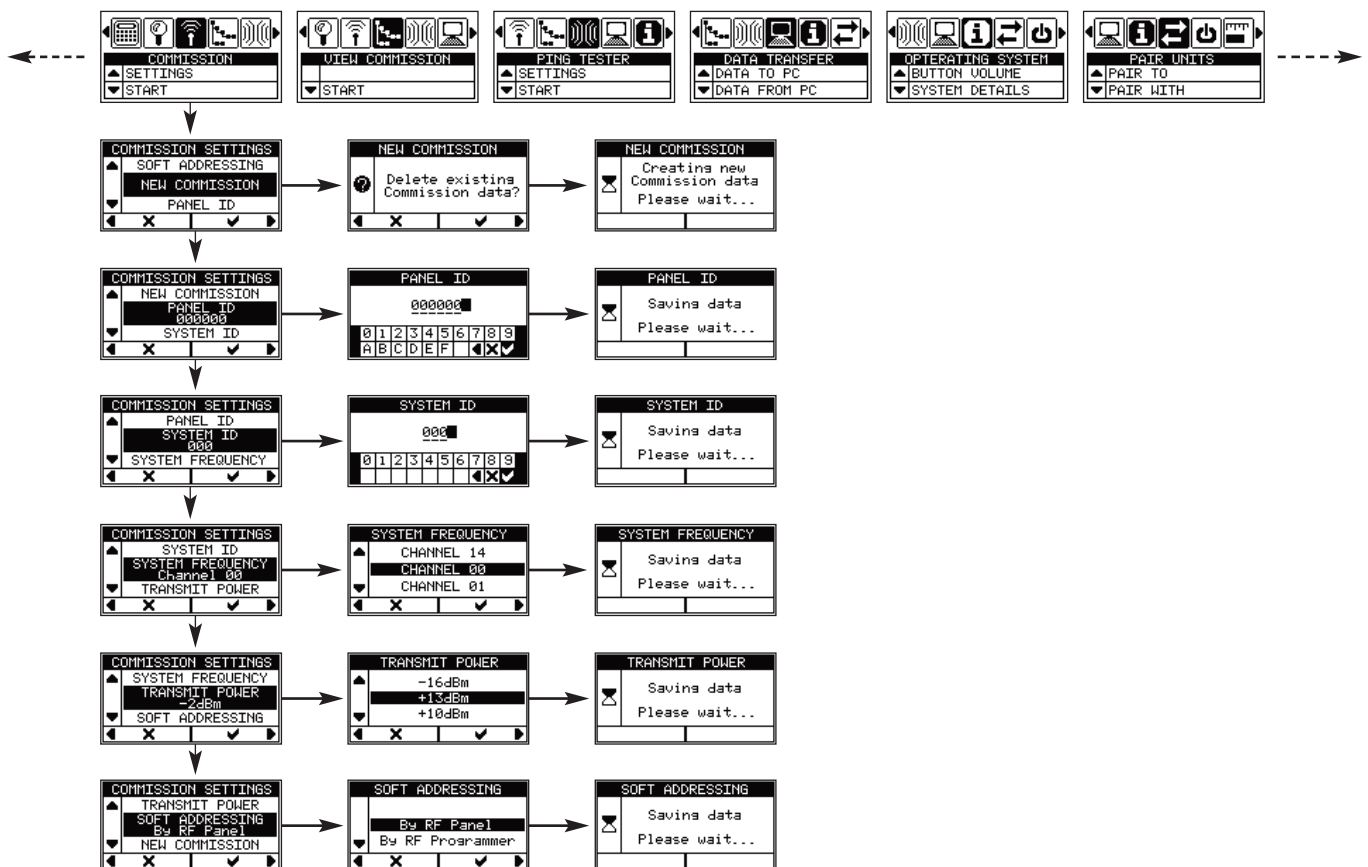
The first mode requires the Wireless Panel to be in the commission mode while the Wireless Programmer is used to instruct a device to commission directly with the Panel. The Wireless Programmer starts by finding devices in range and then displaying a list. A device can then be selected from the list, which will instruct the device to flash it's LED in confirmation. If this is the device to be commissioned then the unit will instruct the device to automatically commission with the panel. The Wireless Programmer in this mode will capture the soft address assigned to the wireless device and store the result in a database.

The second mode allows the Wireless Programmer to directly assign a soft address to a wireless device without the need for the Wireless Panel to be in commissioning mode. Once all wireless devices have been soft address the Wireless Panel must be placed into a scan mode to find the wireless devices. The Wireless Programmer starts by finding devices in range and then displaying a list. A device can then be selected from the list, which will instruct the device to flash it's LED in confirmation. If this is the device to be commissioned the unit will ask what soft address to assign to the device and then sends passes this data to the device in the same manner as the control panel. The Wireless Programmer in this mode will store the result in a database.




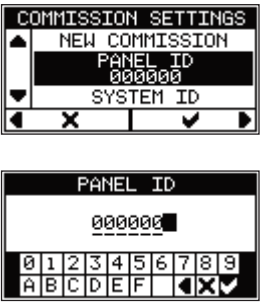
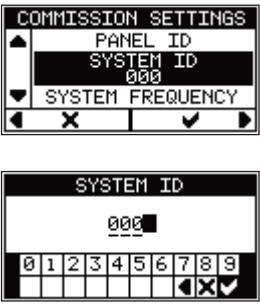
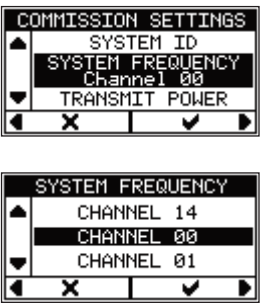
4.2 Commission Settings


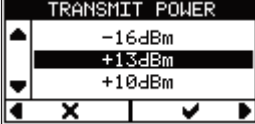


Figure 13

This utility allows you to create a new commission database, set the position unit delay and set how the unit will perform the survey. Once these configuration settings have been set ALL subsequent commissioning will be executed with these settings.



4 COMMISSIONING

	<ul style="list-style-type: none"> Press the UP button to enter the settings menu.
	<ul style="list-style-type: none"> Use the UP and DOWN buttons to scroll through the list of settings. Press the LEFT button to return to the main menu. Press the RIGHT button to change the highlighted setting.
	<p>With NEW COMMISSION highlighted:</p> <ul style="list-style-type: none"> Press the RIGHT button to start a new commission database. <p>ANY PREVIOUS COMMISSION DATA WILL BE LOST.</p>
	<p>With PANEL ID highlighted:</p> <ul style="list-style-type: none"> Press the RIGHT button to activate the keyboard. Enter the Serial Number of the Wireless Panel, this can be found in the system details of the Panel (refer to A3 - KEYBOARD SCREEN on how to use the keyboard). <p>THIS PARAMETER ONLY APPLIES TO SOFT ADDRESSING VIA THE WIRELESS PROGRAMMER.</p>
	<p>With SYSTEM ID highlighted:</p> <ul style="list-style-type: none"> Press the RIGHT button to activate the keyboard. Enter the System ID of the Wireless Panel, this can be found in the system details of the Panel (refer to A3 - KEYBOARD SCREEN on how to use the keyboard) <p>THIS PARAMETER ONLY APPLIES TO SOFT ADDRESSING VIA THE WIRELESS PROGRAMMER.</p>
	<p>With SYSTEM FREQUENCY highlighted:</p> <ul style="list-style-type: none"> Press the RIGHT button to activate the scroll list. Select the System Frequency of the Wireless Panel, this should have been selected from the Survey Analysis and can be found in the system details of the Panel (refer to A4 - DATA LIST SCREEN on how to use the scroll list). <p>THIS PARAMETER ONLY APPLIES TO SOFT ADDRESSING VIA THE WIRELESS PROGRAMMER.</p>

 	<p>With TRANSMIT POWER highlighted:</p> <ul style="list-style-type: none">• Press the RIGHT button to activate the scroll list.• Select the sensitivity of the Wireless Programmer to limit the number of devices waken up in range (refer to A4 - DATA LIST SCREEN on how to use the scroll list).
 	<p>With SOFT ADDRESSING highlighted:</p> <ul style="list-style-type: none">• Press the RIGHT button to activate the scroll list.• Select the required commissioning mode of the Wireless Programmer (refer to A4 - DATA LIST SCREEN on how to use the scroll list).

4 COMMISSIONING

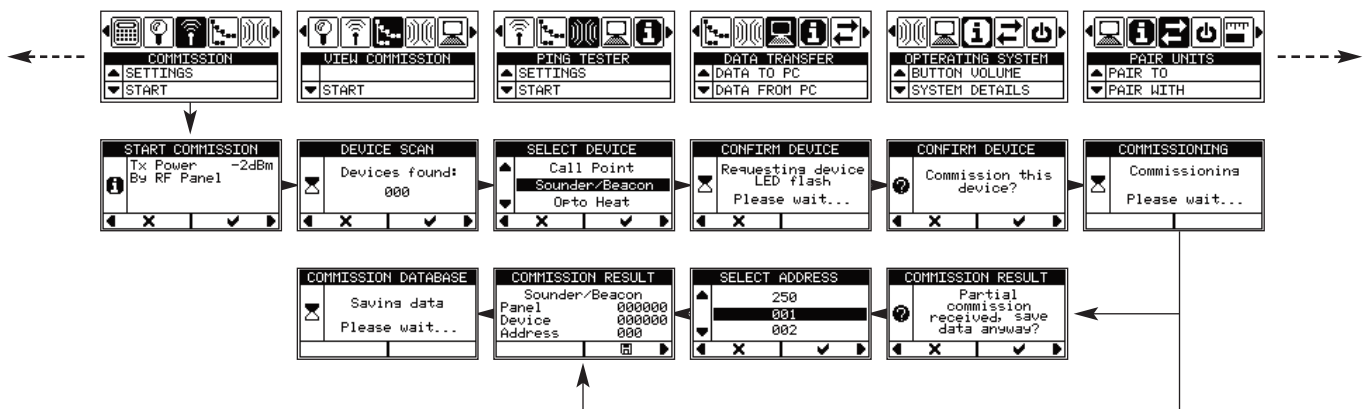
4.3 Commissioning Via Wireless Panel


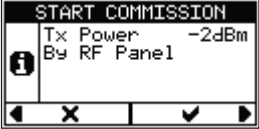

Figure 14

This utility allows you to wake up devices in range of the Wireless Programmer and instruct them individually to automatically commission to the Wireless Panel. This will require the Wireless Panel to be in the commissioning mode.

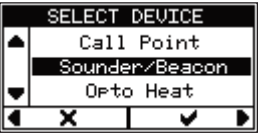




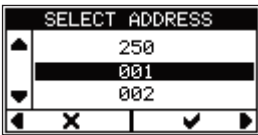

The unit starts by scanning for all non-commissioned devices in range of the Wireless Programmer (this will depend on the transmit power selected). During the device scan the unit will beep and increment a count for every device that is in range. Once it has finished its scan (or it has been bypassed) it will display a list of device types found (up to a maximum of 20 devices). Selecting a device from the list will instruct the device to flash its LED for 5 seconds. If the target device did not flash its LED then return back to the list and try another device. If the target device flashes its LED then allow the Wireless Programmer instruct the device to start commissioning with the control Panel or booster. Keep looking at the LED on the target device. It will flash once it has successfully commissioned with the Panel.

The Wireless Programmer will monitor the commissioning exchange between the device and the control panel. If the Wireless Programmer successfully captures the entire exchange then it will display the information and save it to the database. If for some reason the Wireless Programmer does not capture the entire exchange it will ask you if the device commissioned successfully. If the device flashed its LED then you can confirm this on the Wireless Programmer.



	<ul style="list-style-type: none"> • Press the DOWN button to start commissioning via the Wireless Panel.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the main menu. • Press the RIGHT button to start commissioning with the programmed settings.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the start screen. • Press the RIGHT button to only list the devices found so far (if none are found then this button will not be available). • The unit will beep with every device it finds.

4 COMMISSIONING

	<ul style="list-style-type: none"> • Press the LEFT button to return to the start screen. • Press the UP and DOWN button to scroll through the list of found devices. • Press the RIGHT button to instruct the highlighted device to flash it's LED.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the device list. • Once the device responds to the instruction and flashes it's LED the unit will automatically ask you if this is the device to commission.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the device list. • Press the RIGHT button to instruct the device to automatically commission with the Wireless Panel.
	<ul style="list-style-type: none"> • This screen will automatically clear once the commissioning exchange between the device and the Wireless Panel has been captured or it runs out of time.
	<p>This screen will only appear if the Wireless Programmer only managed to capture part of the commissioning exchange.</p> <ul style="list-style-type: none"> • Press the LEFT button if the device failed to commission to the Wireless Panel. • Press the RIGHT button if the device successfully commissioned to the Wireless Panel.
	<p>This screen will only appear if the Wireless Programmer only managed to capture part of a successful commissioning exchange.</p> <ul style="list-style-type: none"> • Press the LEFT button to return to the device list. • Press the UP and DOWN buttons to scroll through the list of available addresses. If an address has already been commissioned it will not appear in the list. Highlight the soft address that the Wireless Panel assigned to the device; this can be found on the commissioning screen on the Panel. • Press the RIGHT button to select the highlighted address.
	<ul style="list-style-type: none"> • Press the RIGHT button to save the results to the database.

4 COMMISSIONING

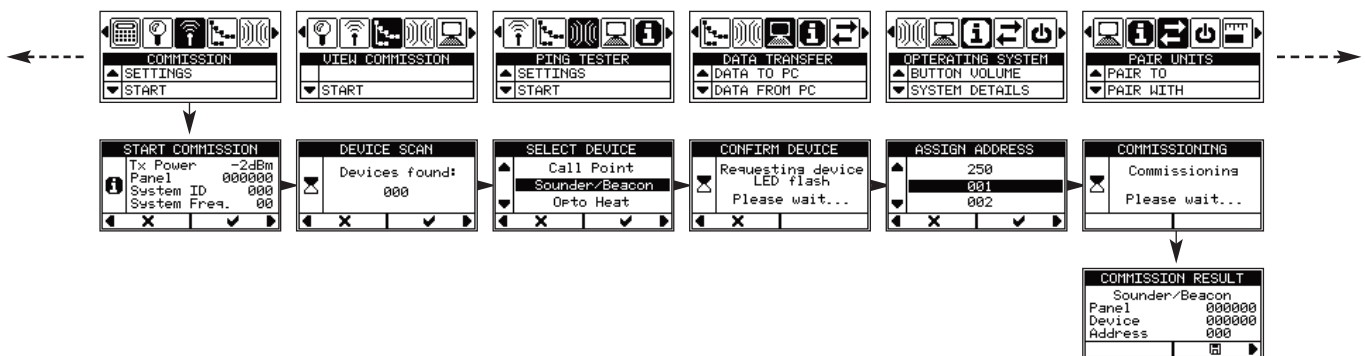
4.4 Commissioning Via Wireless Programmer

Figure 15




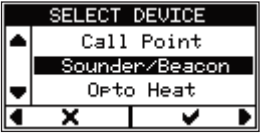

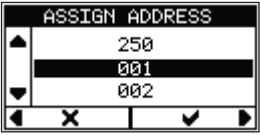


This utility allows you to wake up devices in range of the Wireless Programmer and assign soft addresses to them directly from the Wireless Programmer without the Wireless Panel being in commissioning mode. DO NOT have the Wireless Panel in the commissioning mode.

The Wireless Programmer must be programmed with the Panel Serial Number, System ID and System Frequency before the Wireless Programmer can be used to directly soft address a wireless device.

The unit starts by scanning for all non-commissioned devices in range of the Wireless Programmer (this will depend on the transmit power selected). During the device scan the unit will beep and increment a count for every device that is in range. Once it has finished its scan (or it has been bypassed) it will display a list of device types found (up to a maximum of 20 devices). Selecting a device from the list will instruct the device to flash its LED for 5 seconds. Once the device starts to flash it's LED the Wireless Programmer will ask what address to assign to the device. If the device you are looking at does not flash then it is located elsewhere, so either return to the device list and keep selecting the same device until you locate it or keep trying a different device from the list until the one you are looking at starts to flash. Once you have selected the correct device then select the soft address as per the site plan to start commissioning directly with the device. Keep looking at the LED on the target device. It will flash once it has successfully commissioned. The Wireless Programmer will save the commissioning exchange between itself and the device to the database.



4 COMMISSIONING

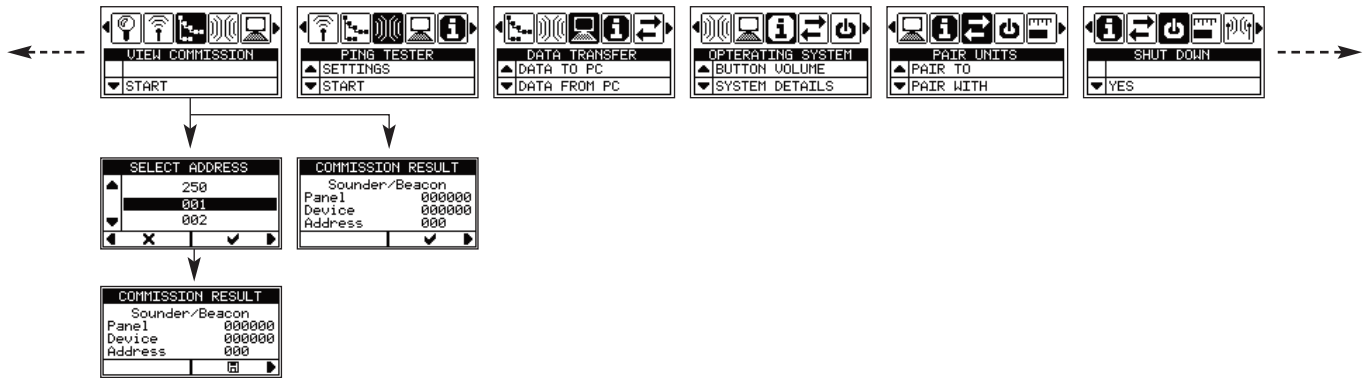
	<ul style="list-style-type: none"> • Press the DOWN button to start commissioning via the Wireless Programmer.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the main menu. • Press the RIGHT button to start commissioning with the programmed settings.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the start screen. • Press the RIGHT button to only list the devices found so far (if none are found then this button will not be available). • The unit will beep with every device it finds.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the start screen. • Press the UP and DOWN button to scroll through the list of found devices. • Press the RIGHT button to instruct the highlighted device to flash it's LED.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the device list. • Once the device responds to the instruction and flashes it's LED the unit will automatically ask you if this is the device to commission.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the device list. • Press the UP and DOWN buttons to scroll through the list of available addresses. If an address has already been commissioned it will not appear in the list. Highlight the soft address that the device should be commissioned to in accordance with the site plan. • Press the RIGHT button to select the highlighted address.
	<ul style="list-style-type: none"> • This screen will automatically clear once the commissioning exchange between the device and the Wireless Panel has been captured or it runs out of time.
	<ul style="list-style-type: none"> • Press the RIGHT button to save the results to the database.

4 COMMISSIONING


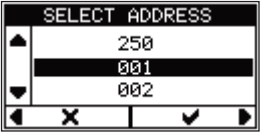

4.5 View Commission

Figure 16

This utility allows you to view the commissioned data of any address within the database. This utility displays the commissioned data in the same format as the results screen of the commissioning utility.



4 COMMISSIONING

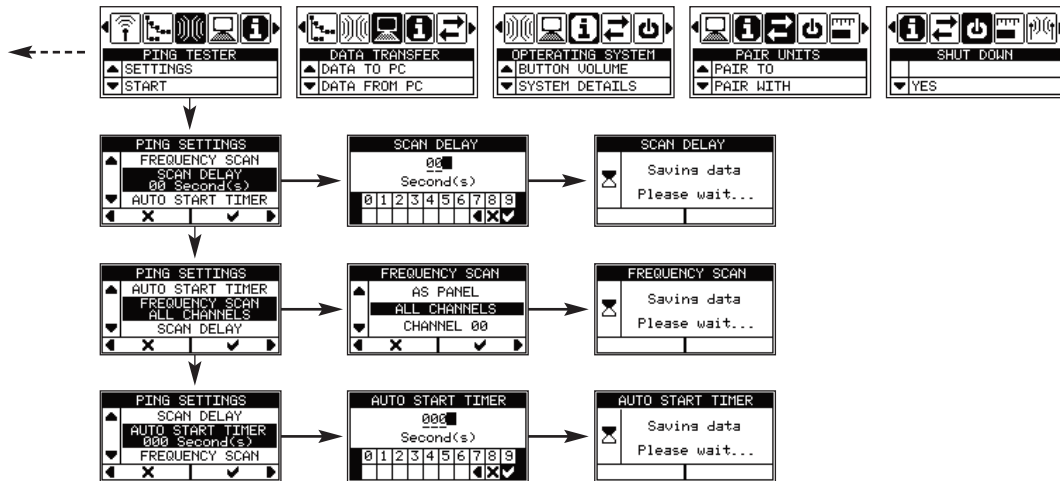
 <p>The screen displays a top bar with several icons (lightbulb, Wi-Fi, signal, and a speaker). Below the icons, the text "VIEW COMMISSION" is centered. At the bottom, there is a button labeled "START" with a downward-pointing arrow to its left.</p>	<ul style="list-style-type: none">• Press the DOWN button to view the site survey results.
 <p>The screen displays a title bar "SELECT ADDRESS". Below it is a list of three addresses: "250", "001", and "002". The address "001" is highlighted with a black background. At the bottom, there are navigation buttons: a left arrow, an "X" button, a vertical bar, a checkmark button, and a right arrow.</p>	<ul style="list-style-type: none">• Only the addresses that have been commissioned will be listed.• Press the LEFT button to return to the main menu.• Press the RIGHT button to view the highlighted address.• Press the UP and DOWN buttons to scroll through the commissioned addresses.
 <p>The screen displays a title bar "COMMISSION RESULT". Below it, the following information is shown: Sounder/Beacon Panel 000000 Device 000000 Address 000 At the bottom right, there is a button with a square icon and a right-pointing arrow.</p>	<ul style="list-style-type: none">• Press the RIGHT button to return to the address list.




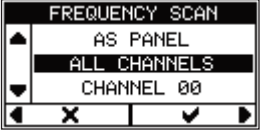




5 UTILITIES

5.1 Ping Tester Settings

Figure 17

This utility allows you to set the position unit delay, the automatic start timer, and set how the unit will perform the test. Once these configuration settings have been set ALL subsequent ping tests will be executed with these settings.



	<ul style="list-style-type: none"> • Press the UP button to enter the settings menu.
	<ul style="list-style-type: none"> • Use the UP and DOWN buttons to scroll through the list of settings. • Press the LEFT button to return to the main menu. • Press the RIGHT button to change the highlighted setting.
 	<p>With FREQUENCY SCAN highlighted:</p> <ul style="list-style-type: none"> • Press the RIGHT button to activate the scroll list. • If you want the unit to be placed at the Panel location then select “As Panel” from the list. • If you want the unit to be placed at the device locations and to perform a full channel scan then select “All Channels” from the list. • If you want the unit to be placed at the device locations but only perform a scan on a single channel then select the required channel number from the list.
 	<p>With SCAN DELAY highlighted:</p> <ul style="list-style-type: none"> • Press the RIGHT button to activate the keyboard. • Enter the scan delay in SECONDS to allow the unit to be positioned (refer to A3 - KEYBOARD SCREEN on how to use the keyboard).
 	<p>With AUTO START TIMER highlighted:</p> <ul style="list-style-type: none"> • Press the RIGHT button to activate the keyboard. • Enter the auto start time in SECONDS to allow the unit to automatically restart a scan after the programmed period (refer to A3 - KEYBOARD SCREEN on how to use the keyboard).

5 UTILITIES

5.2 Ping Tester

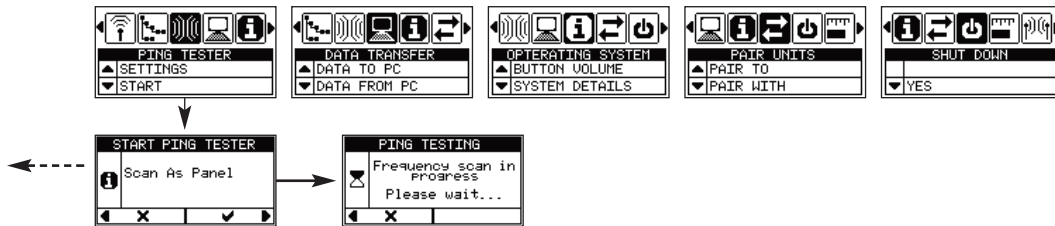
NOTE 1: If the two units have not been paired together then a ping test will not be permitted. A ping test should always be conducted with the two units supplied in the kit. Do not mix and match units from different survey kits.

This utility allows you to check the signal quality between two locations (i.e. the Panel and a remote device). It behaves in the exact same manner as the Site Survey except that no data is stored in the database and it will automatically restart after a programmable delay. The utility still requires 2 Wireless Programmers paired together.

5.2.1 Ping as Panel

Figure 18

One of the paired units must be configured with the “Frequency Scan” set to “As Panel”. This is the unit that will be left at the location of the Panel.



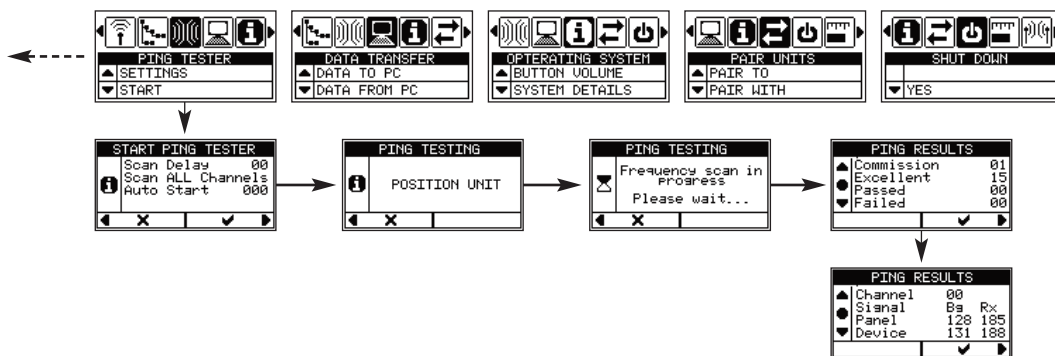
	<ul style="list-style-type: none"> • Press the DOWN button to start a ping test using the programmed settings.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the main menu. • Press the RIGHT button to start the test.
	<ul style="list-style-type: none"> • Press the LEFT button to abort the survey scan and return to the start screen. • After about 30 seconds the unit will enter a power saving mode where the screen will go blank. • Pressing any button will turn the screen back on again. • The unit will periodically flash its LED and beep it's buzzer to give an indication that the unit is powered and running.



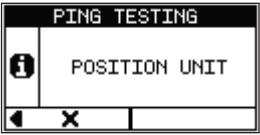
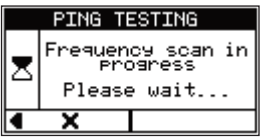
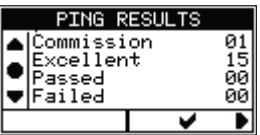
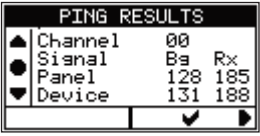
5 UTILITIES

5.2.2 Ping as Device

Figure 19

One of the paired units must be configured with the “Frequency Scan” set to anything other than “As Panel” (recommended setting is the frequency channel of the Panel). This is the unit that will be taken to each device location for verification of signal quality.



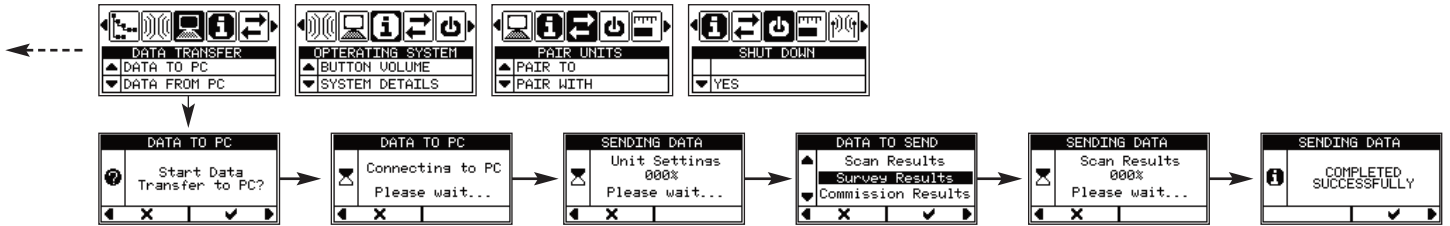
	<ul style="list-style-type: none"> Press the DOWN button to start a ping test using the programmed settings.
	<ul style="list-style-type: none"> Press the LEFT button to return to the main menu. Press the RIGHT button to start the test.
	<ul style="list-style-type: none"> An audible beep will be sounded while the unit positioning delay is active. If the device position is reachable by hand then hold the unit in place, with the aerial in a vertical orientation, and the press the RIGHT button to bypass the position delay. If the device position requires the extendable pole then hold the pole so the unit is in the required device location, and hold it there. The survey scan will commence at the end of the position delay. Press the LEFT button to abort the test and return to the start screen.
	<ul style="list-style-type: none"> Press the LEFT button to abort the test and return to the start screen. The unit will beep after each channel has been ping tested.
	<ul style="list-style-type: none"> Once the test has been completed a summary screen will appear with a 'Go', 'No Go' indication on the Green or Red LED. A solid circle in the scroll bar also indicates a 'Go' and an opaque circle indicates a 'No Go'. If the Green LED illuminates then at least one channel passed the survey. If the Red LED illuminates then the scan either failed on the commission channel or none of the system channels passed the survey. The unit will automatically return to the position unit screen after a couple of seconds to allow a rescan after moving the unit to a different location (a couple of inches in either direction can make a difference). Press the RIGHT button to return to the start screen.
	<ul style="list-style-type: none"> Pressing the UP and DOWN buttons allows you to examine the detailed results per channel. The Receive (Rx) level should be at least 15 above the Background (Bg) level for the channel to pass the survey. A 'Go', 'No Go' indication will appear on the Green or Red LED. A solid circle in the scroll bar also indicates a 'Go' and an opaque circle indicates a 'No Go'.

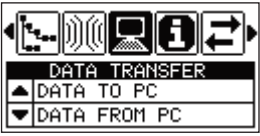



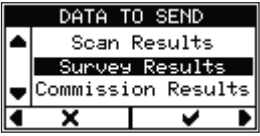


5 UTILITIES

5.3 Data To PC Utility

Figure 20

This utility allows the Wireless Programmer to upload the Site Scan, Site Survey and Commission databases TO a compatible PC application.



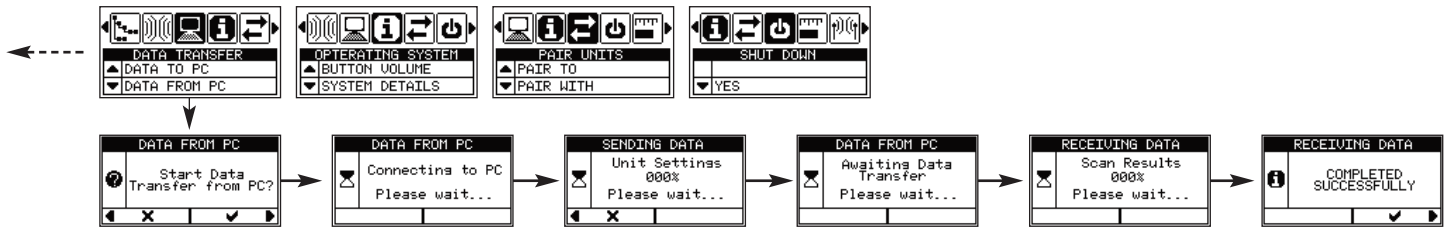
	<ul style="list-style-type: none"> • Press the UP button to start a data transfer TO the PC application.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the main menu. • Press the RIGHT button to start the data transfer.
	<ul style="list-style-type: none"> • Press the LEFT button to abort the transfer and return to the main menu. • Once the Wireless Programmer has established a connection with the PC application it will automatically start the transfer of the unit's configuration settings.
	<ul style="list-style-type: none"> • Press the LEFT button to cancel the transfer and disconnect from the PC application. • Once the transfer has been completed it will automatically ask you which databases to transfer to the PC application.
	<ul style="list-style-type: none"> • Press the LEFT button to cancel the transfer and disconnect from the PC application. • Press the UP and DOWN buttons to highlight the database to be transferred. • Press the RIGHT button to start the transfer of the highlighted option.
	<ul style="list-style-type: none"> • The unit will display the progress of the data transfer to the PC. • Press the RIGHT button to cancel the transfer.
	<ul style="list-style-type: none"> • Press the RIGHT button to return to the database list.

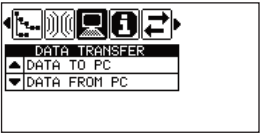

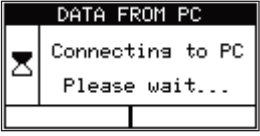


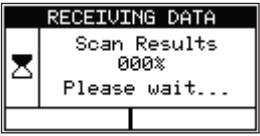

5 UTILITIES

5.4 Data From PC Utility

Figure 21

This utility allows the Wireless Programmer to upload the Site Scan, Site Survey and Commission databases FROM a compatible PC application.



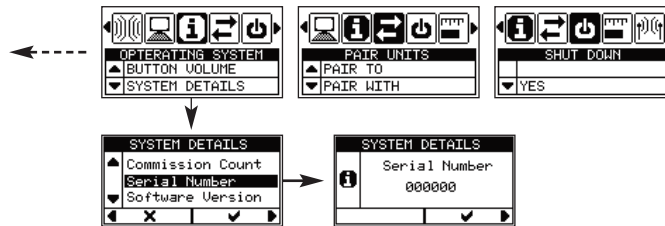
	<ul style="list-style-type: none"> • Press the DOWN button to start a data transfer FROM the PC application.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the main menu. • Press the RIGHT button to start the data transfer.
	<ul style="list-style-type: none"> • Once the Wireless Programmer has established a connection with the PC application it will automatically start the transfer of the unit's configuration settings.
	<ul style="list-style-type: none"> • Press the LEFT button to cancel the transfer and disconnect from the PC application. • Once the transfer has been completed it will automatically wait for data to be transferred from the PC application.
	<ul style="list-style-type: none"> • Once the data transfer starts the screen will automatically display the transfer progress.
	<ul style="list-style-type: none"> • The unit will display the progress of the data transfer from the PC.
	<ul style="list-style-type: none"> • Press the RIGHT button to return to the main menu.


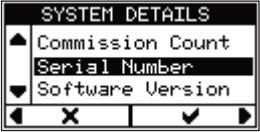
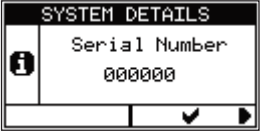
5 UTILITIES

5.5 System Details

Figure 22

This utility allows you to view the unit's system information.

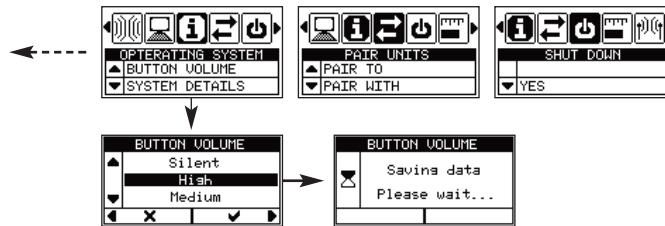


	<ul style="list-style-type: none"> • Press the DOWN button to view the unit's system details.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the main menu. • Press the UP and DOWN buttons to scroll through the list of system details. • Press the RIGHT button to view the highlighted parameter.
	<ul style="list-style-type: none"> • Press the RIGHT button to return to the details list.

5.6 Button Volume

Figure 23

This utility allows you to adjust the sound level of the button beeps. This will have no effect on any sound levels during the Site Scan, Site Survey or Commissioning utilities.



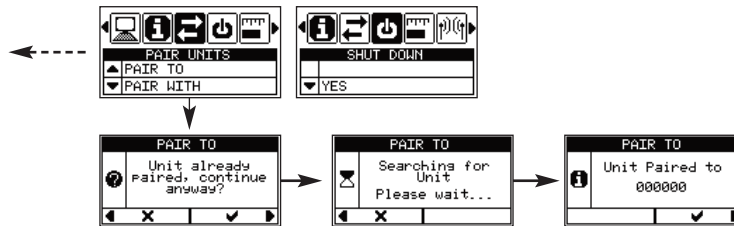
	<ul style="list-style-type: none"> • Press the UP button to change the button volume.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the main menu. • Press the UP and DOWN buttons to scroll through the available options. • Press the RIGHT button to change the button volume to the highlighted level.




5 UTILITIES

5.7 Pair To

Figure 24

To successfully pair two units together, one must be placed in “PAIR TO” mode while the other unit is in “PAIR WITH” mode. The unit that is in “PAIR TO” mode will attempt to pair with the other unit. This is done over short range radio.

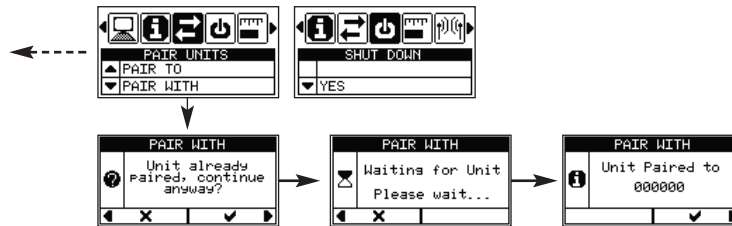



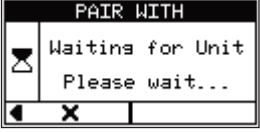

	<ul style="list-style-type: none"> • Press the UP button to start pairing with another unit.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the main menu. This will not leave the unit unpaired if previously paired. • The unit will attempt to pair to an adjacent unit.
	<ul style="list-style-type: none"> • The unit is now paired. • Press the RIGHT button to return to the main menu.

5.8 Pair With

Figure 25

To successfully pair two units together, one must be placed in “PAIR TO” mode while the other unit is in “PAIR WITH” mode. The unit that is in “PAIR WITH” mode will wait for the other unit to pair with it. This is done over short range radio.

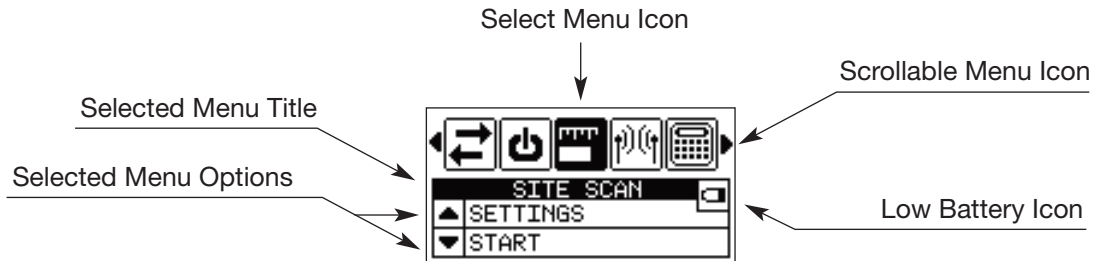


	<ul style="list-style-type: none"> • Press the DOWN button to start pairing with another unit.
	<ul style="list-style-type: none"> • Press the LEFT button to return to the main menu. This will not leave the unit unpaired if previously paired. • The unit will wait to be paired with the adjacent unit.
	<ul style="list-style-type: none"> • The unit is now paired. • Press the RIGHT button to return to the main menu.

APPENDIX A – COMMON SCREENS

A1 - Menu Screen

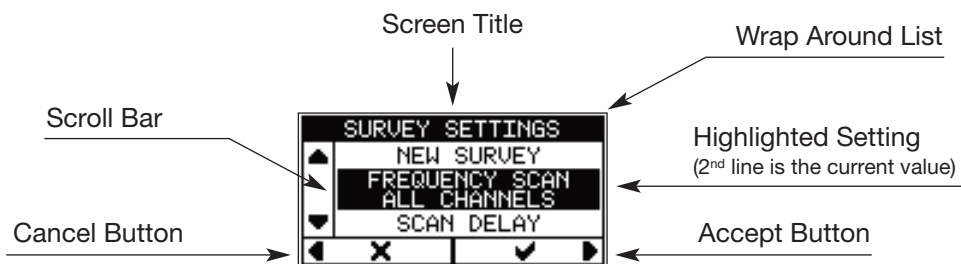
Figure 26



- The arrows either side of scrollable menu icons indicate that the LEFT and RIGHT buttons will scroll the menu.
- The UP button will activate the 1st option available for the highlighted menu item.
- The DOWN button will activate the 2nd option available for the highlighted menu item.

A2 - Settings Screen

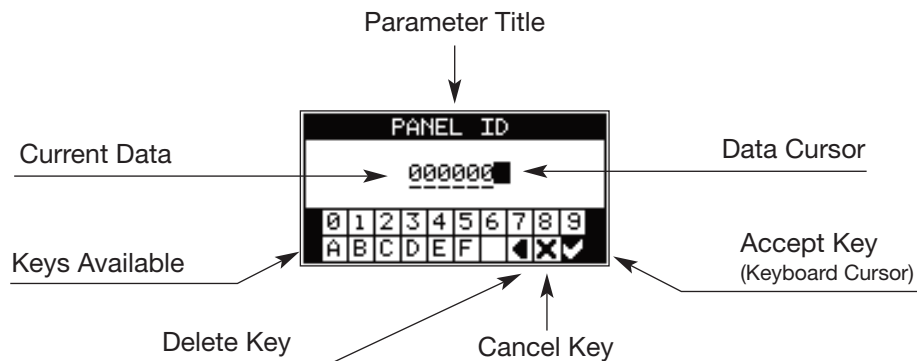
Figure 27



- The settings are displayed in a wrap around list. This means that if the first option is highlighted then the option above will be the last option in the list and the one below will be the next option in the list.
- The arrows on the left hand side of the settings list indicate a scroll bar. The UP and DOWN buttons will scroll the available list of settings.
- The LEFT button will exit the settings screen.
- The RIGHT button will allow the setting to be changed using either the keyboard or data list.

A3 - Keyboard Screen

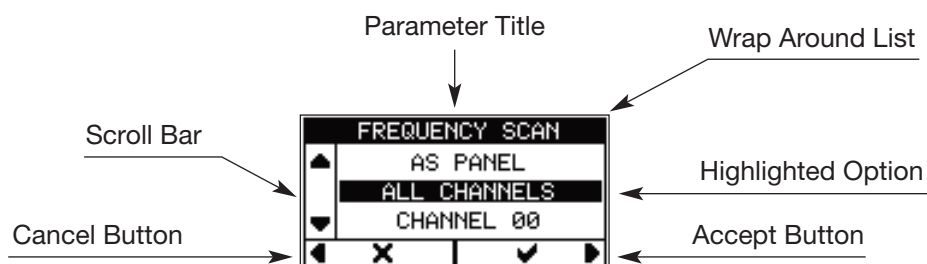
Figure 28



- The data cursor is a black box that highlights the digit/character being entered in the current data window.
- The keyboard cursor is the inverted key in the keyboard matrix.
- Use the LEFT, RIGHT, UP and DOWN buttons to move the keyboard cursor around the keyboard matrix.
- Use the CENTRE button to select the key highlighted by the keyboard cursor.
- The delete key will move the data cursor left 1 character.
- The cancel key will abort the entry and exit the keyboard screen.
- The accept key will only become available if the required number of characters has been entered. Selecting this key will save the new data and exit the keyboard screen.

A4 - Data List Screen

Figure 29



- The data is displayed in a wrap around list. This means that if the first option is highlighted then the option above will be the last option in the list and the one below will be the next option in the list.
- The arrows on the left hand side of the data list indicate a scroll bar. The UP and DOWN buttons will scroll the available list of data.
- The LEFT button will exit the data list screen.
- The RIGHT button will select the highlighted data and save the parameter accordingly.

CW500 Wireless Fire Programmer
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