

## Paging System Installation Guide



Aidcall operates a policy of continual product improvement and reserves the right to modify the specification of its products.

If any variation to the details in this document are suspected please contact Aidcall's Technical Support.

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## 1. PRODUCT OVERVIEW

The Paging system consists of an Interface unit and a Master Base plus up to 7 Slave Bases connected on an RS485 data bus. Wireless Repeaters can be added around each Master or Slave Base to further increase the area of coverage. A maximum of 999 Pagers can be used per system.

The Interface unit requires connection to a battery-backed 12V DC power supply and the RS232 Pager Port on a Touchsafe Pro Nursecall Panel. The Master Base and all additional Slave Bases are connected from the Interface unit on an RS485 data and power bus cable – maximum cable length for data is 600 metres, power cable runs should not exceed 100 metres.

A maximum of 7 Repeaters can be deployed per base to increase radio coverage - *Note Repeaters only need connection to a mains supply and they include their own standby battery.* Standard Repeaters must be within radio range of a Base, Hop Repeaters are available to repeat off a standard Repeater. The total number and positioning of Bases, Slaves and Repeaters will be determined by an RF site survey prior to commencing the installation.

Staff will be alerted to a call no matter where they are via their portable Pagers. The system can be setup so all calls are reported to all Pagers at all times, or day/night groups can be set so different Pagers can be alerted depending on the time of day. The different types of call reported to the Pagers can be set and Pagers can be configured into zones so calls are only notified to the staff responsible for specific areas. Pagers can also be used as a Nurse Present Buddy to register individual staff activity on the Nursecall system. Pager ID's can be set to match the personal Staff ID numbers via the Logon Terminal.



*Refer to the Pager User Guide (Aidcall Doc No. FM5605) for details on how the Pager operates*

## 2. IMPORTANT SAFETY INSTRUCTIONS

|                                                                                     |                                                                                                                                                                             |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Read and understand these instructions before use. Keep these instructions for future reference.                                                                            |
|    | Take care when working on step ladders during installation or service.                                                                                                      |
|    | Isolate the mains supply before removing the PSU cover.                                                                                                                     |
|    | Do not disassemble any part of the system or attempt to repair it yourself.                                                                                                 |
|    | No user serviceable parts inside. Refer all servicing to qualified service personnel.                                                                                       |
|    | PSU's should only be connected to a 220-240VAC 50/60Hz mains supply. If you are unsure of the type of power supply consult your local power company.                        |
|    | Danger of explosion if rechargeable batteries are incorrectly replaced. Use only manufacturer approved batteries as identified in section 20 of this manual.                |
|    | Only use manufacturer approved cable during installation. See section 7 of this manual for details of cable type, recommended colour code and cable length restrictions.    |
|    | This product should be located at least 2 metres away from any other electronic equipment. Failure to provide this separation may result in reduced radio range.            |
|   | This product has polarized antennas – to achieve optimum performance it is important all radio parts are installed in the vertical plane.                                   |
|  | Do not locate this product above a radiator or other heat source.                                                                                                           |
|  | Do not expose to direct sunlight.                                                                                                                                           |
|  | Do not submerge in water and do not use in damp or humid conditions.                                                                                                        |
|  | Do not drop or expose to high vibration or shock.                                                                                                                           |
|  | Do not expose this product to dripping or splashing water. Liquids can cause a failure and/or a fire hazard.                                                                |
|  | Clean with a damp cloth and a non-abrasive cleaning product. Polish with a dry duster. DO NOT use a wet cloth.                                                              |
|  | Avoid using harsh, abrasive or corrosive cleaning agents or detergents (e.g. scouring powders, bleaches, polishes, etc.) when cleaning this product.                        |
|  | At the end of its life this product should be disposed of and recycled in accordance with the environmental regulations. See the Regulatory Information in section 3 below. |

### 3. REGULATORY INFORMATION

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>We declare this product complies with the relevant UK legislation on condition that it is used in the manner intended, and in accordance with the current installation standards and/or the manufacturer's recommendations.</p> <p>A copy of the full UKCA Declaration of Conformity is available on request.</p>                                                                                                                                                                                                                                                                                                                                                                      |
|  | <p>We declare this product complies with the relevant European legislation on condition that it is used in the manner intended, and in accordance with the current installation standards and/or the manufacturer's recommendations.</p> <p>A copy of the full CE Declaration of Conformity is available on request.</p>                                                                                                                                                                                                                                                                                                                                                                  |
|  | <p>This symbol on the product indicates it is classed as Electrical or Electronic Equipment and should not be disposed of with other commercial waste at the end of its working life.</p> <p>The Waste of Electrical and Electronic Equipment (WEEE) Directive (2012/19/EU) has been put in place to recycle products using the best available recovery and recycling techniques to minimise impact on the environment, treat hazardous substances and avoid increasing landfill.</p> <p>For product disposal please contact your supplier and check the terms and conditions of the purchase contract and ensure this product is not mixed with other commercial waste for disposal.</p> |
|  | <p>This symbol on batteries indicates separate collection. Batteries contain chemicals that can be hazardous to health and the environment and should not be disposed of in the waste bin.</p> <p>The EU Directive (2006/6/EC) has been put in place to ensure the safe disposal and recycling of batteries.</p> <p>Return used batteries to your supplier or drop-off at your local municipal waste recycling depot.</p>                                                                                                                                                                                                                                                                 |

### 4. MAINTENANCE & CARE

For peace of mind and to ensure your system is maintained to the highest standard Aidcall recommend an annual maintenance contract. This will provide vital assistance in times of need from a nationwide team of trained Service Engineers who specialise in wireless Nursecall systems.

A preventative maintenance visit (PMV) is also available from Aidcall, this covers the replacement of all non-rechargeable batteries, a full system test, software updates (if applicable) and a Service Certificate.

For more information on Maintenance Contract Packages and PMV's please contact our customer services team on 01670 357431 or visit the website; <https://www.aidcall.co.uk/maintenance/>

#### MONTHLY MAINTENANCE

The Interface, Master/Slave Bases, and Repeaters do not require any regular maintenance, if a unit shows signs of external damage it should be replaced immediately by a Service Engineer.

Products needing repair can be returned via the website; <https://www.aidcall.co.uk/returns-procedure/>

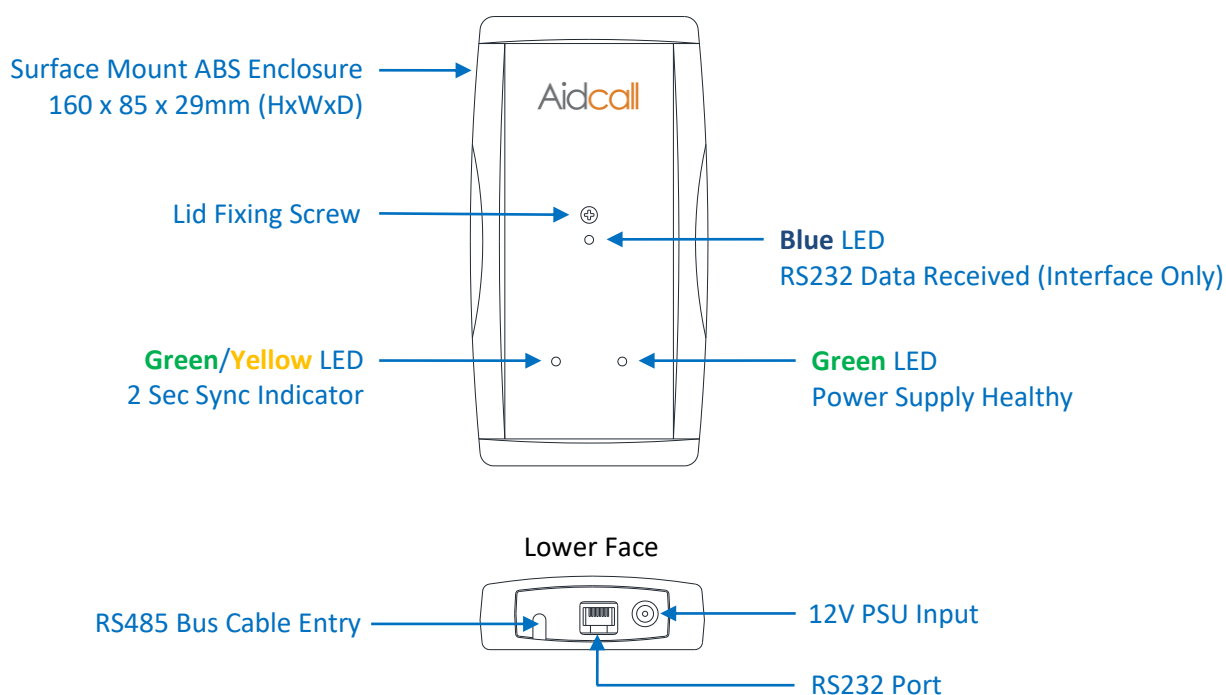
#### ANNUAL MAINTENANCE

The rechargeable batteries in the PSU and Repeaters should be tested every year by a Service Engineer and replaced every 5 years. Alkaline batteries in Door Exit Beacons should be replaced every 3 years. See section 20 for details of battery types. Pagers must be returned to Aidcall for battery replacement.

## 5. SYSTEM FEATURES

The paging system Interface, Master Base, Slave Base and Repeaters are all housed in the same type of ABS enclosure. Always check the Model No. label on the rear of the unit to be sure of which product you are looking at.

| Aidcall Ref. | Product            |
|--------------|--------------------|
| ZNC570       | Interface          |
| ZNC571       | Master Base        |
| ZNC572       | Slave Base         |
| ZNC573       | Repeater & PSU     |
| ZNC574       | Hop Repeater & PSU |



### LED INDICATORS

The **GREEN** LED should be permanently illuminated when the external 12V supply is connected.

The **GREEN/YELLOW** LED should flash every 2 seconds – on an Interface this indicates RS485 polling, on all other units it indicates radio communications are healthy.

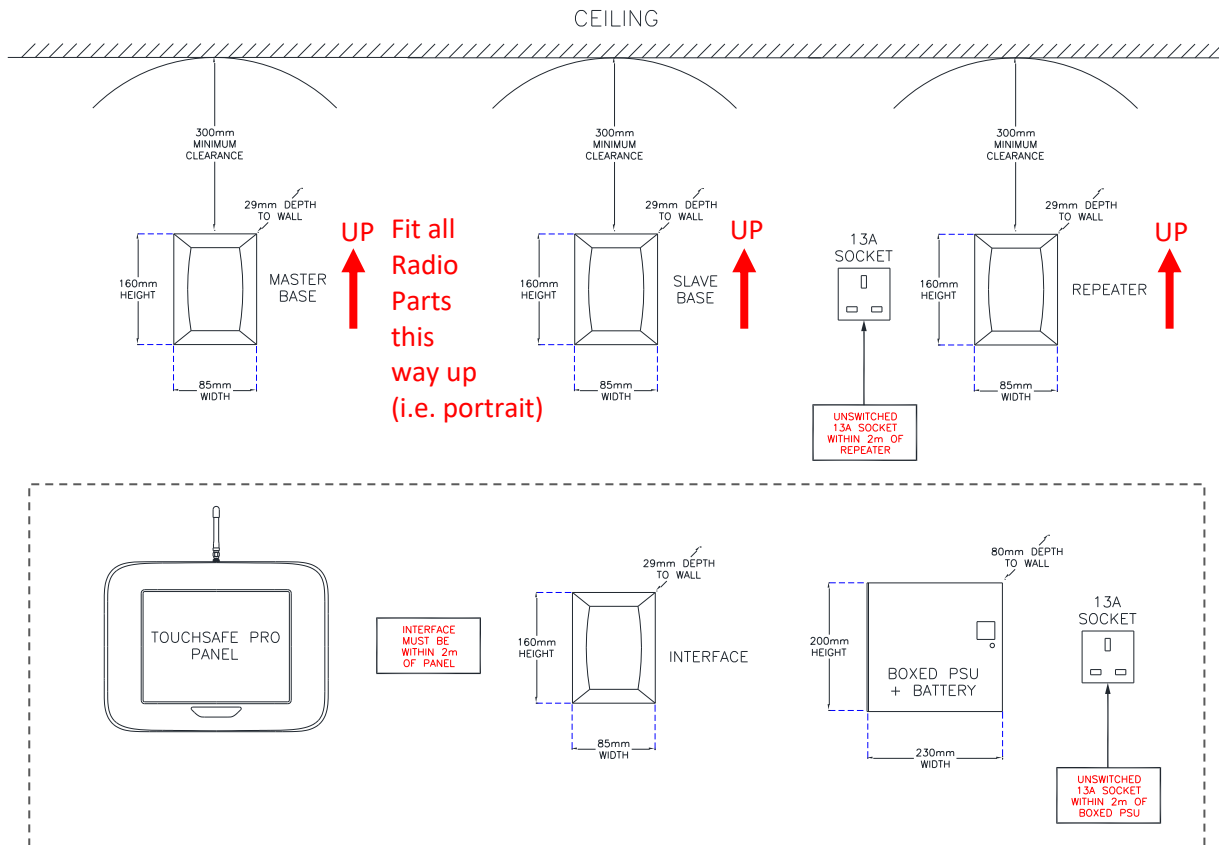
The **BLUE** LED should be normally on and flash off when data is received by the Paging Interface from the Nursecall system.

## 6. FIXING HEIGHTS & DISTANCES

All paging products must be sited in a dry secure area; they are NOT suitable for outdoor locations. The interface will normally be within 2 metres cable run of a Touchsafe Pro Display Panel.

All radio parts should be positioned as high as possible but a minimum of 300mm from the ceiling and at least 2 metres away from any other electronic equipment.

All radio parts have internal vertically polarized antennas – to achieve maximum radio range it is important that all radio parts are mounted vertically i.e. in portrait orientation. This means the cables can exit upwards or downwards depending on location of the mains socket and for ease of fixing/hiding cables.



### IMPORTANT: AVOID LOCATING PAGING PRODUCTS...



WITHIN 2 METRES OF  
OTHER ELECTRONIC  
EQUIPMENT



DIRECTLY ABOVE A  
HEATER



IN DIRECT SUNLIGHT



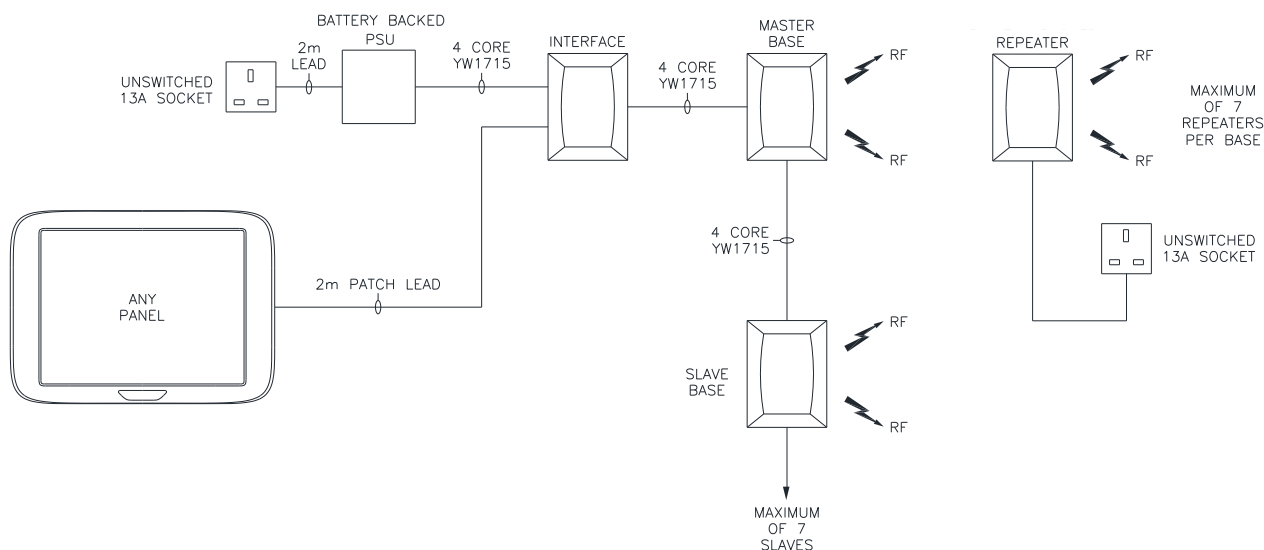
NEAR TO SPLASHING  
WATER

### RADIO RANGE

Construction materials such as foil backed plasterboard, reinforced concrete or stone walls will reduce range. Environmental conditions such as high levels of transmission at nearby frequencies or emissions from other electrical equipment may further reduce range. Clear line-of-sight will give maximum radio coverage of 200 metres radius from the Master, Slave Base, or Repeater.

## 7. SITE WIRING REQUIREMENTS

The Paging Interface is connected to the RS232 Pager Port on any Touchsafe Pro Nursecall panel. Master and Slave Bases are wired from the Interface on a common RS485 Bus cable. Additional Wireless Repeaters can be installed to further increase the radio range of each base cell. Hop Repeaters can be used to make up to 5 hops from a standard Repeater. The Interface, Master and Slave Bases all require a power connection from the 12V battery backed PSU. Repeaters and Hop Repeaters require a local un-switched 13A mains socket only i.e. no data connection is required.

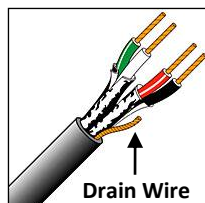


- 1 PSU, 1 Interface and 1 Master Base is required as a minimum per site
- Up to 7 Slave Bases can be hardwired on an RS485 bus to provide extended radio coverage
- Up to 117 wireless Repeaters can be installed to further increase radio coverage
- Hop Repeaters link to a Repeater with a lower ID – the maximum number depends on arranging same ID's with non-overlapping coverage
- The Interface must be within 2 metres of a Touchsafe Pro Nursecall Panel
- The total length of the RS485 bus wiring should not exceed 600 metres (tested to 300m)
- The length of any one 12V DC power supply wiring leg should not exceed 100 metres
- Additional PSU's will be required on large installations with multiple Slave Bases

### RS485 BUS CABLE SPEC

The interface/master/slave RS485 bus should be wired using LSF (Low Smoke and Fume) 2 Pair 22AWG individually screened pairs of data cable (Belden Type 8723 or equivalent).

| Pair No.  | Colour | Terminal |
|-----------|--------|----------|
| 1 (Power) | Red    | +        |
|           | Black  | -        |
| 2 (Data)  | Green  | A        |
|           | White  | B        |



#### Note Ref. Drain Wire...

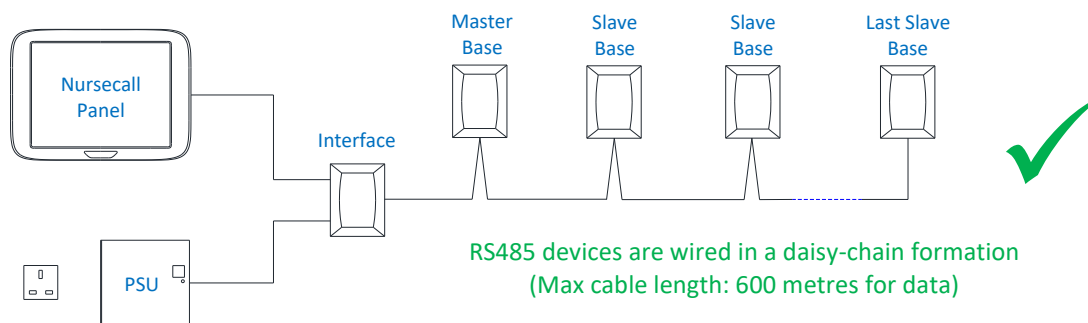
The drain wire is NOT connected. Do not cut-off, sufficient length should be left during installation for possible future use. Ensure the un-used drain wire is well insulated.

This cable is available from Aidcall in 100m reels; Part No. YW1715.

## 7. SITE WIRING REQUIREMENTS

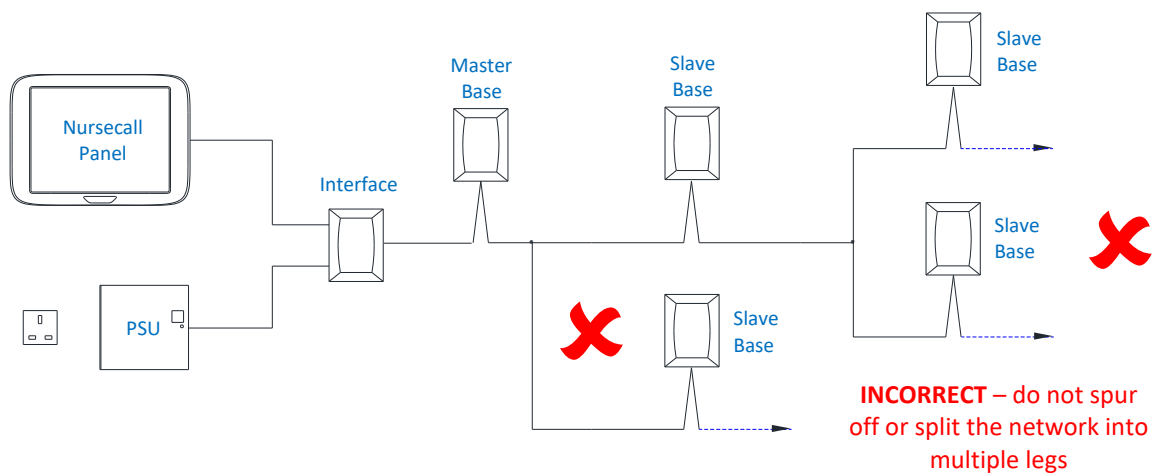
### RS485 BUS

It is important that the RS485 data bus wiring network is connected in one continuous “daisy-chain” from the Interface through the Master and all Slave Bases installed on the scheme...



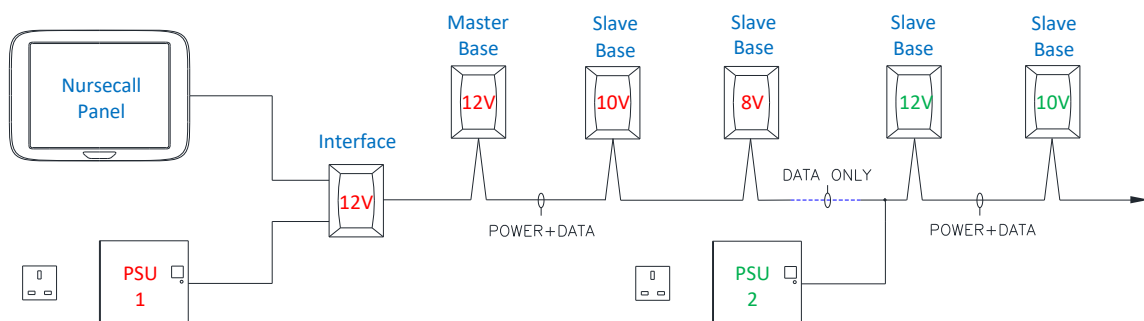
*Note: the first and the last units (this could be any type depending on site layout) connected on the RS485 bus must have an end of line (EOL) Jumper fitted – see section 10 for details.*

**IMPORTANT:** the RS485 data bus must not be split into multiple legs from a mid-point in the wiring and small groups of devices should not be spurred off at any point in the network...



### POWER BUS

On large installations with multiple Slave Bases and/or a bus cable length exceeding 100 metres it will be necessary to fit additional PSU's at remote points in the building...



If the voltage on a Slave Base gets down to 8V DC then an additional PSU will be required for any units connected beyond this point. **Do not common the 12V line between multiple PSU's.**

## 8. RADIO PART DEPLOYMENT

There is a total of 8 time slot ID's on the Paging system. The Master Base is always 01; the remaining 7 can be a mix of Slave Bases or Repeaters. If more than 8 ID's are required, then any duplicate ID's must not be in overlapping coverage.

Repeaters must be within range of a Master or Slave Base, Repeaters CANNOT repeat off each other.

Fig1 & Fig2 below both show sequentially numbered Radio Parts without the need to duplicate ID's.

FIG 1

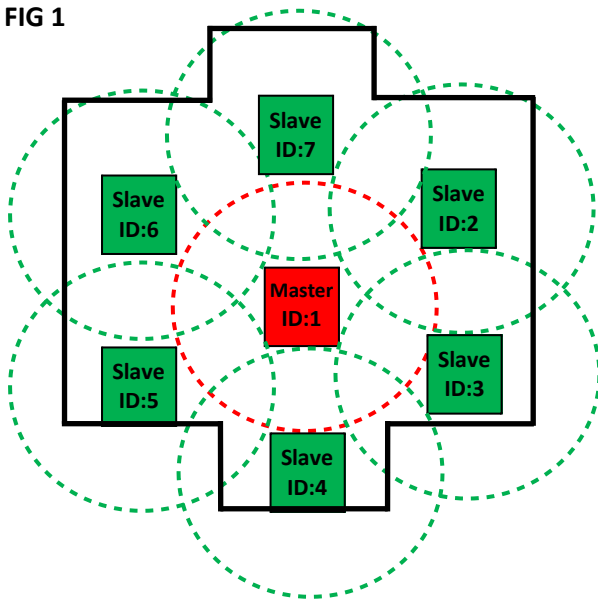


FIG 2

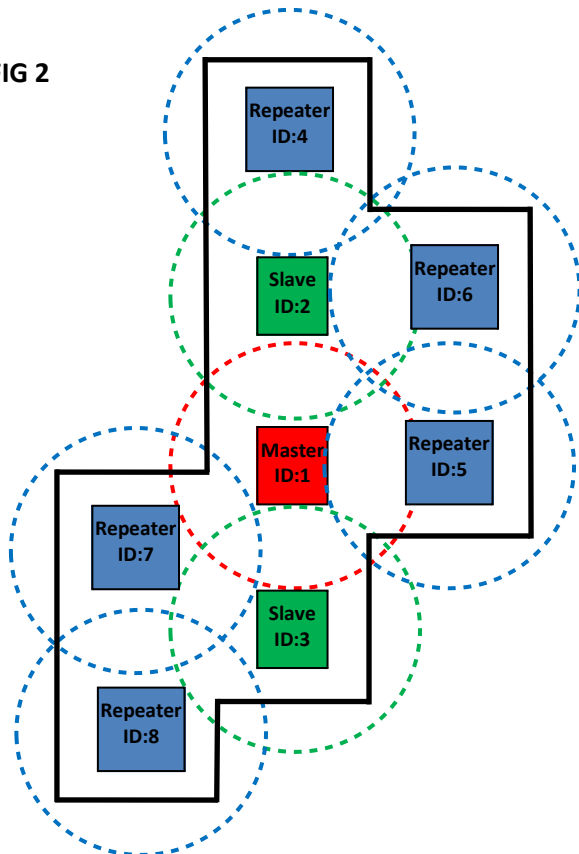
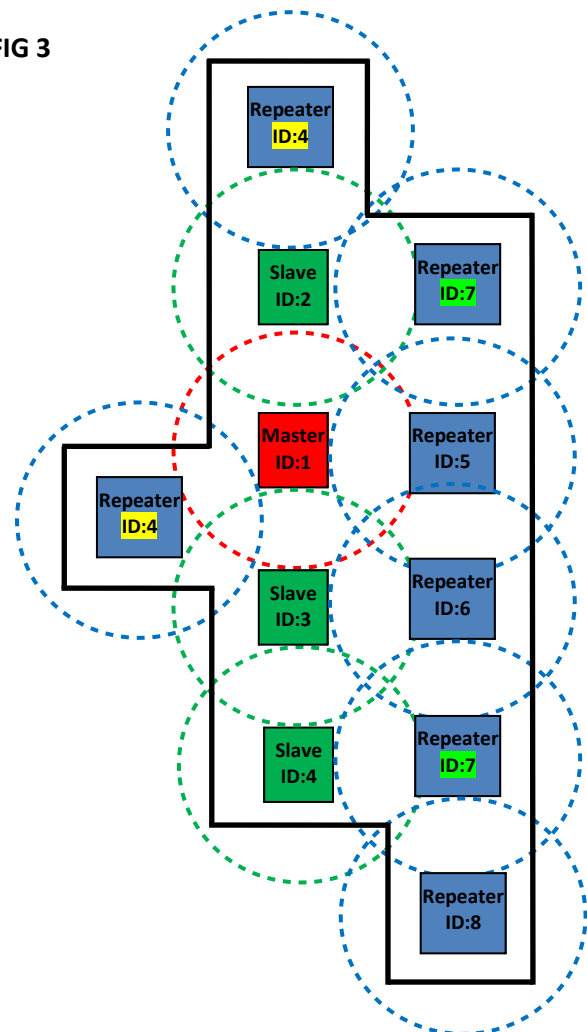


Fig3 below shows 10 Radio Parts with duplicate ID's on Repeater ID's 4 & 7 – this is acceptable because the Repeaters are not in an overlapping range.

FIG 3



The left-hand Repeater ID:4 could NOT be ID:1 as ONLY the Master is ID:1, also it could NOT be ID:3 as this would be in an overlapping coverage area with the Slave ID:3.

The top right hand Repeater ID:7 could NOT be ID:1 as ONLY the Master is ID:1, also it could not be ID:5 or ID:2 or ID:4 as this would be in an overlapping coverage area with the same ID's.

## 9. PSU INSTALLATION

The battery backed PSU (Aidcall Part No. E40061) requires connection to the mains supply; it provides 12V DC for the Interface, Master and Slave Bases.

12V/1A Boxed PSU



2m Mains Lead & 13A UK Plug



12V 1.2Ah Rechargeable Battery



### INSTALLATION

Undo the single lid fixing screw and open the lid.

*Note: if the lid is removed ensure the Safety Earth is re-connected.*

Position the PSU within 2 metres of an un-switched 13A mains socket.

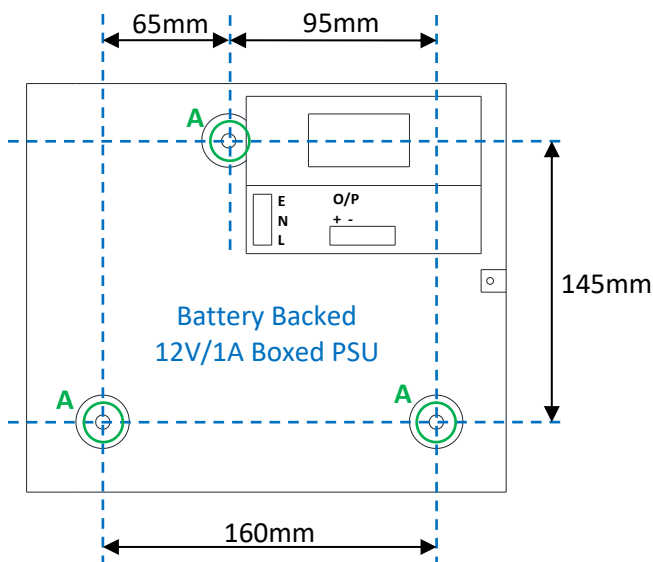
Fix the power supply unit to the wall using the 3 holes "A" as shown below.

Connect the mains lead provided to the power supply unit mains terminals using the colour code in the table alongside.

Note: the plug is fitted with a 240V AC 5A BS1362 fuse.

| Mains Connection                                                                    |          |
|-------------------------------------------------------------------------------------|----------|
|  |          |
| Colour                                                                              | Terminal |
| Brown                                                                               | L        |
| Blue                                                                                | N        |
| Green/Yellow                                                                        | E        |

### PSU FIXING



### PSU LED INDICATORS

The **GREEN POWER** LED should be permanently illuminated when the Mains supply is healthy.

The **RED FAULT** LED will illuminate if the 12V output or battery fuse has blown.



The PSU should only be opened during installation and service – the lid must be screwed shut at all other times to prevent the risk of electric shock.  
Never leave a live PSU unattended with the lid open.

## 10. INTERFACE INSTALLATION

The Interface requires power from the 12V/1A battery backed PSU and RS232 data from the Pager Port on any Touchsafe Pro Nursecall panel.

The Interface unit is normally located in close proximity to the Nursecall panel and is connected using the 2 metre Patch Lead provided. *Note: this cable can be extended up to 20 metres maximum if necessary.*

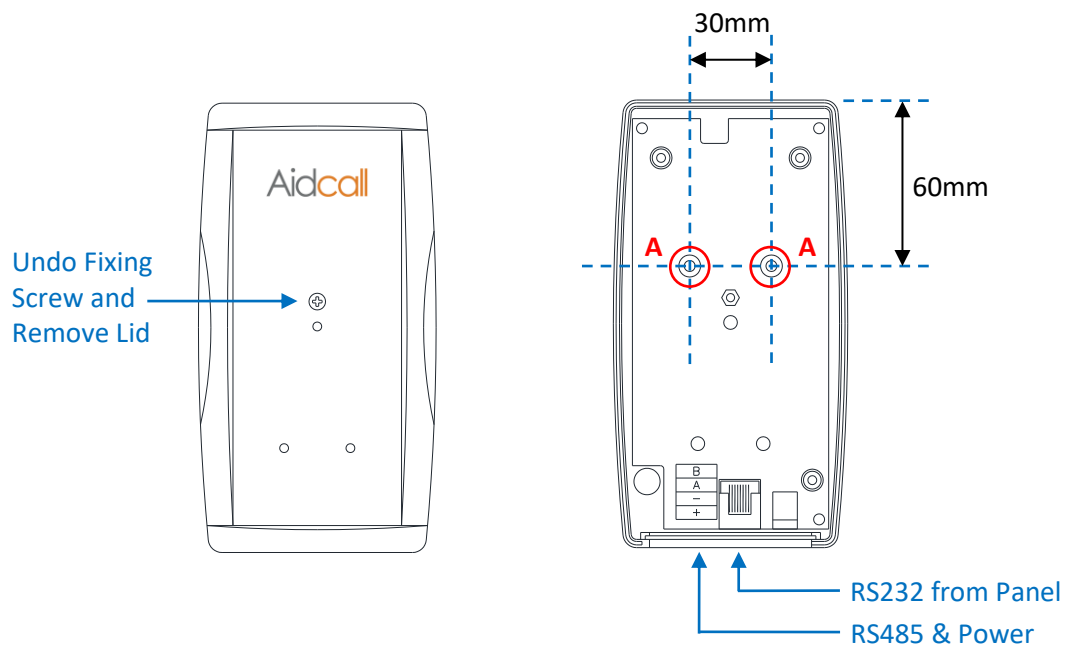
The Interface converts RS232 data from the panel to RS485 for connection to the Master and Slave Bases. *Note: the maximum length for the RS485 bus cable is 600 metres.*

### INTERFACE FIXING

Undo the single screw fixing in the centre and remove the Interface lid.

Choose a location to fix the Interface within 2 metres cable run of a Nursecall panel.

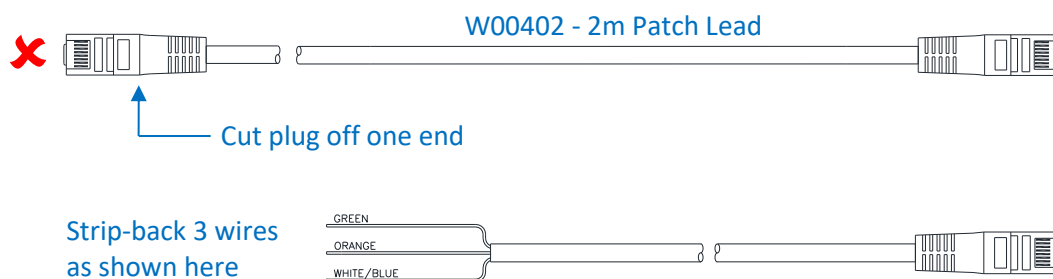
Fix the Interface to the wall using the screws provided through the 2 fixing holes "A" shown below.



### PATCH LEAD

Cut an RJ45 plug off one end of the 2 metre Patch Lead (Aidcall Part No. W00402).

Strip-back the cable and identify the green, orange and white/blue wires.



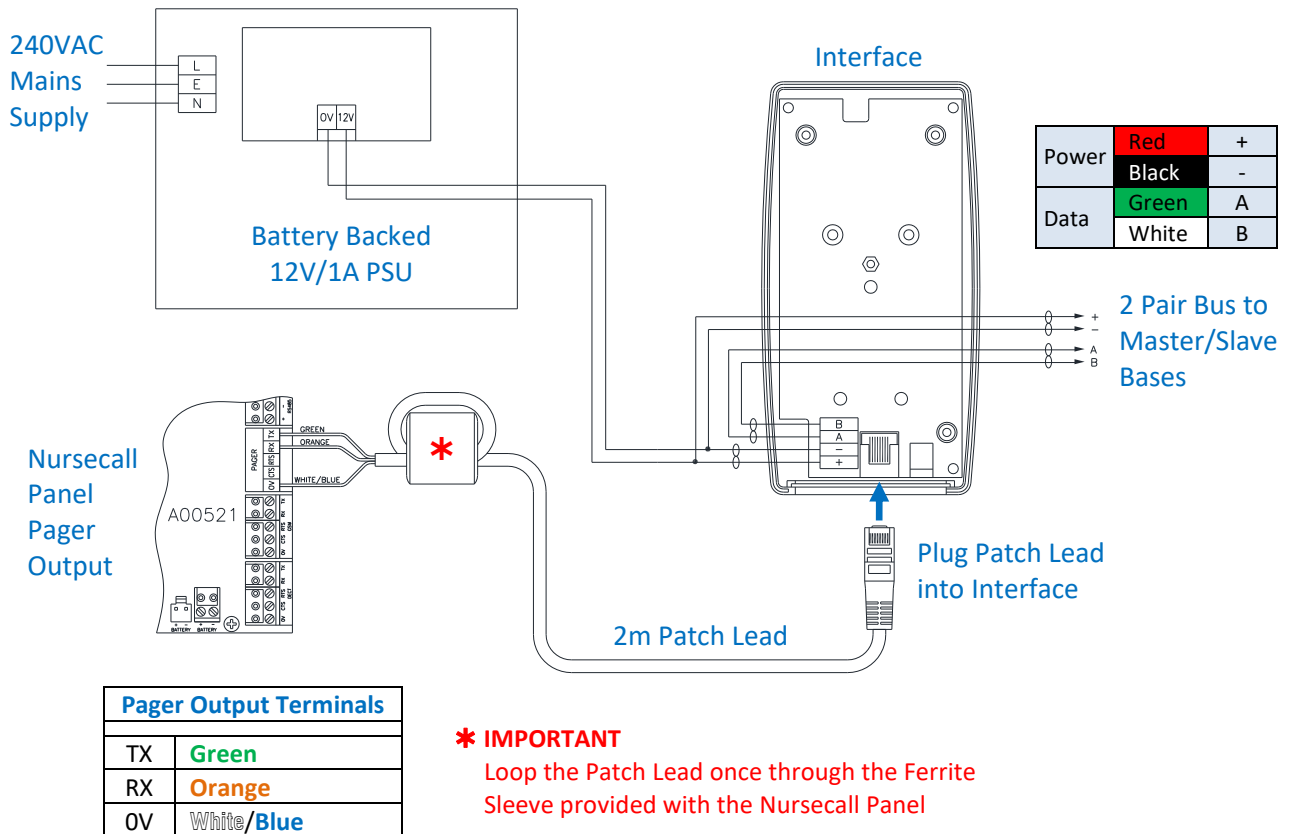
## 10. INTERFACE INSTALLATION

### CONNECTION DETAILS

Loop the Patch Lead through the ferrite sleeve provided and connect the 3 wires to the Pager terminal in the Touchsafe Pro Nursecall panel using the colour code shown below.

Plug the Patch Lead into the RJ45 socket on the bottom of the Interface.

Connect the Battery Backed 12V PSU output to the Interface +/- supply terminals.

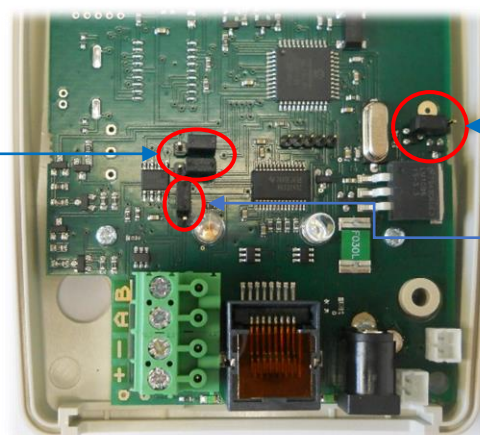


Connect the 2 pair power and RS485 data bus cable for the Master and Slave Bases to the interface using the colour code shown in the table above.

### JUMPER SETTINGS

Check the Jumpers are set on the PCB inside as shown...

Remove both Data Jumpers and park on RHS pins as shown here



Battery Back-up Jumper not fitted

RS485 End of Line (EOL) Jumper only fitted on the first and last units on the RS485 Bus Cable.

## 11. MASTER & SLAVE BASE INSTALLATION

The Master Base is connected on a 2 pair bus from the Interface. Depending on the size of the site, up to 7 Slave Bases can also be connected on the same bus to achieve extended radio coverage.

The maximum cable length for the power supply pair is 100 metres, for greater distances an additional PSU will be required at a remote point in the building. The maximum cable length for the RS485 bus is 600 metres – this must be one continuous “daisy-chain” connection.

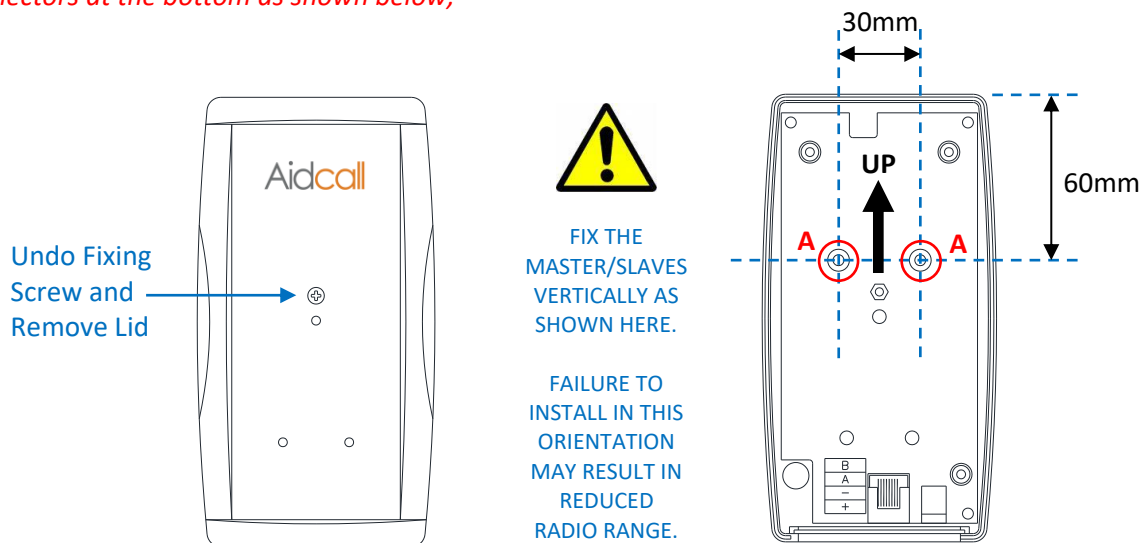
### MASTER/SLAVE FIXING

Undo the single screw fixing in the centre and remove the lid.

Choose the best position as close as possible to the location recommended by the RF site survey.

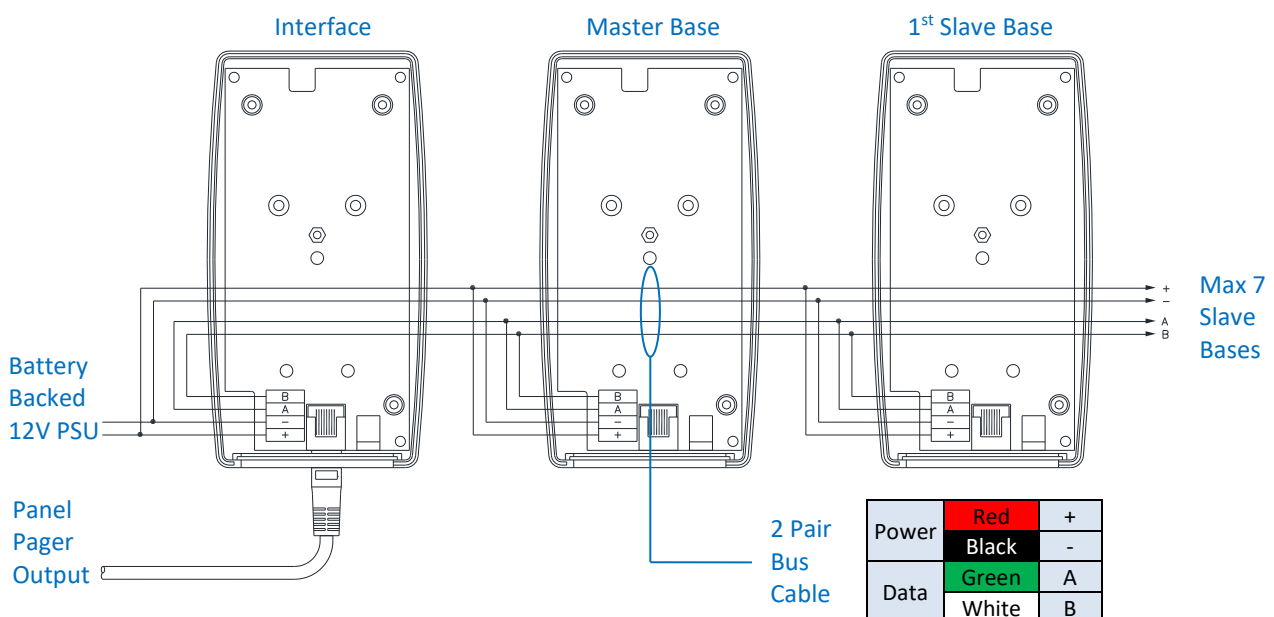
Fix the unit to the wall using the screws provided through the 2 fixing holes “A” shown below.

**IMPORTANT:** to ensure maximum radio coverage always fix the Master/Slave Bases vertically with the connectors at the bottom as shown below;



### CONNECTION DETAILS

The Master and Slave Bases should be wired using LSF 2 Pair 22AWG individually screened data cable. Use Belden Type 8723 or equivalent, available from Aidcall; Part No. YW1715 (100m reel).



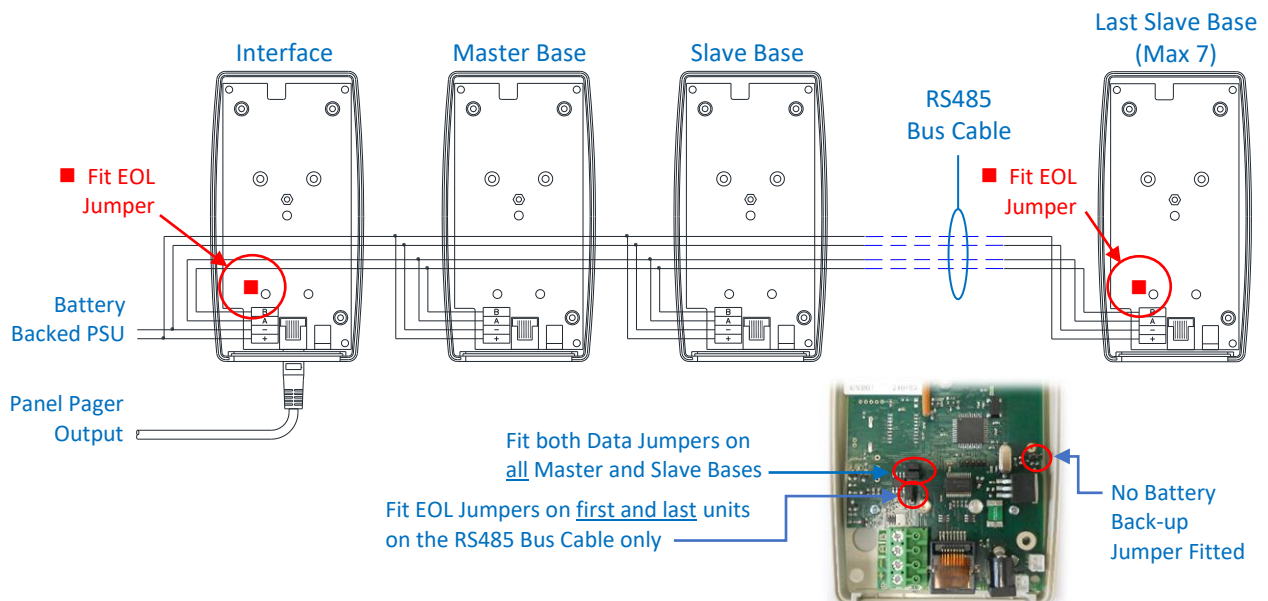
## 11. MASTER & SLAVE BASE INSTALLATION

### VOLTAGE DROP

On installations with multiple Slave Bases connected on a single pair power cable from a central PSU it is important to check the supply voltage is no less than 8V DC at the furthest point. Voltage drop is a result of the cable resistance, the longer the cable and the greater the number of Slave Bases connected will increase the voltage drop. If the voltage drop becomes too great then an additional PSU must be fitted at a remote point in the wiring network. *Note: the 0V connection must be common to all PSU's.*

### END OF LINE RESISTORS

The first and last unit connected on the RS485 bus must have the End of Line (EOL) Jumper fitted. Fit the Jumper on the 2 pins on the first and last unit, leave Jumper fitted on one pin on all others.



## 12. REPEATER INSTALLATION

Repeaters are used to increase the radio coverage of the Master or Slave Bases. Repeaters operate wirelessly and only require connection to a local 240V AC mains supply via the plug-top PSU module provided. Repeaters also include an integral rechargeable battery which will give approx. 4 hours operation in the event of a mains supply failure.

Repeaters cannot repeat off each other, a Repeater must be within range of a Master or Slave Base. Up to 7 Repeaters with non-overlapping coverage can be deployed per Master/Slave Base; Repeaters can have duplicate ID's as long as they don't overlap in each other's coverage area. The Repeater ID must be HIGHER than any WIRED Slave it is required to link to. As shown above, the Repeater ID must also be LOWER than any WIRELESS Slave using the Repeater to link back to the Master. The total number and positioning of Repeaters will be determined by an RF survey prior to commencing the installation.

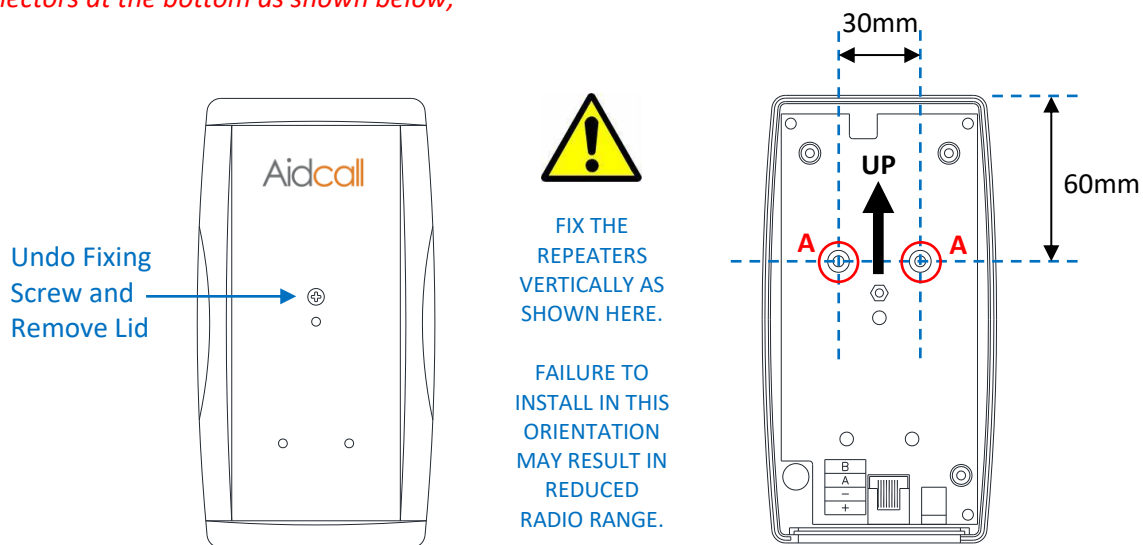
### REPEATER FIXING

Undo the single screw fixing in the centre and remove the Repeater lid.

Choose a location to fix the Repeater within 1.8 metres cable run of an un-switched mains socket.

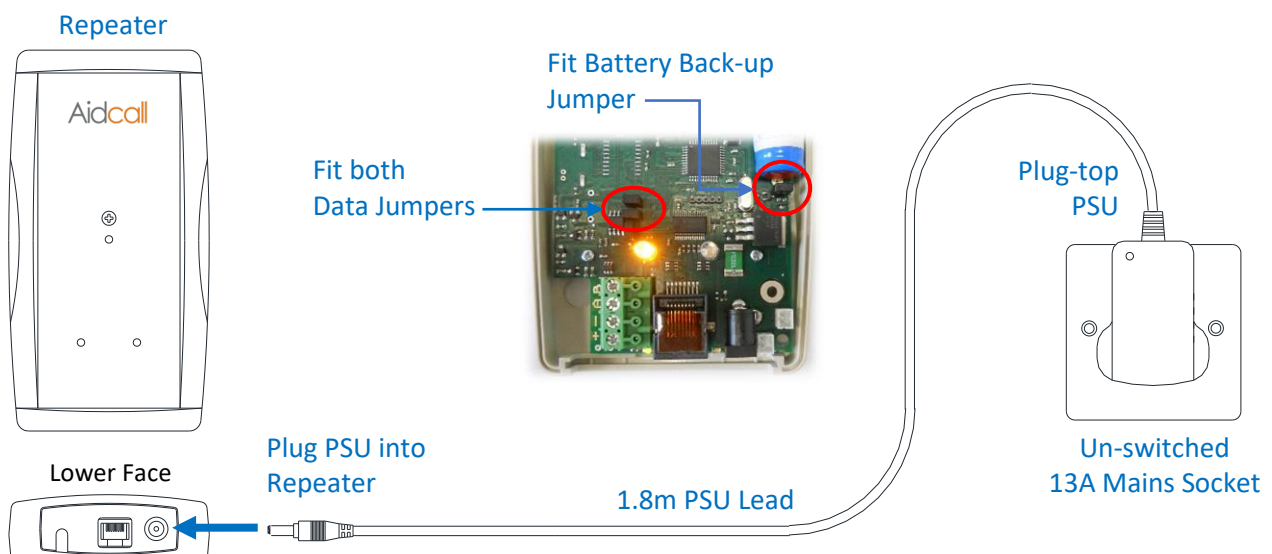
Fix the Repeater to the wall using the screws provided through the 2 fixing holes "A" shown below.

**IMPORTANT:** to ensure maximum radio coverage always fix the Repeater units vertically with the connectors at the bottom as shown below;



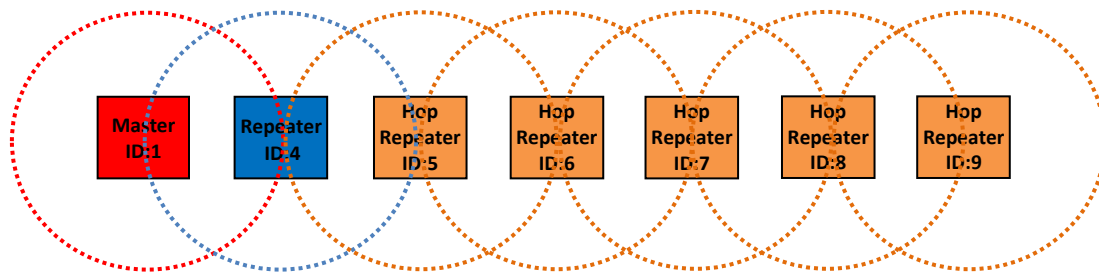
### REPEATER CONNECTION

Repeaters are simply plugged-into the mains supply using the plug-top 12V 500mA PSU module provided.



## 13. HOP REPEATER INSTALLATION

The Hop Repeater (Aidcall Part No: ZNC574) is a transceiver which is controlled from the Master Base but links via a standard Repeater to extend the coverage area of the Paging system. The Hop Repeater can then link to up to 4 other Hop Repeaters in a daisy-chain format (max 5 hops).



*Note: the Hop Repeater does not support acknowledgement of messages from group calls.*

A Hop Repeater needs to be set to an ID which is HIGHER than any standard Repeater or other Hop Repeater it requires to link back to the MASTER. Try to avoid ID's 2, 3 and 4 which are normally reserved for Wired Slave Bases. The same rules of no overlapping coverage of identical ID's still applies. Programming of the ID's is as per the standard Repeater using the Master Base Programmer.

Hop Repeaters are supplied with a plug-top PSU & standby battery the same as standard Repeaters, these will require an un-switched 13A mains socket outlet at high level in the positions required.

### FIXING & CONNECTION

Hop Repeaters are fixed and connected to a local mains supply the same as standard Repeaters shown on the previous page.

## 14. EXIT BEACON INSTALLATION

Exit Beacons are used to prevent the accidental removal of Pagers from site. When a Pager passes an Exit Beacon it will alert the user, if the Pager leaves site it will start to bleep and the only way to stop it is by returning it to the charger.

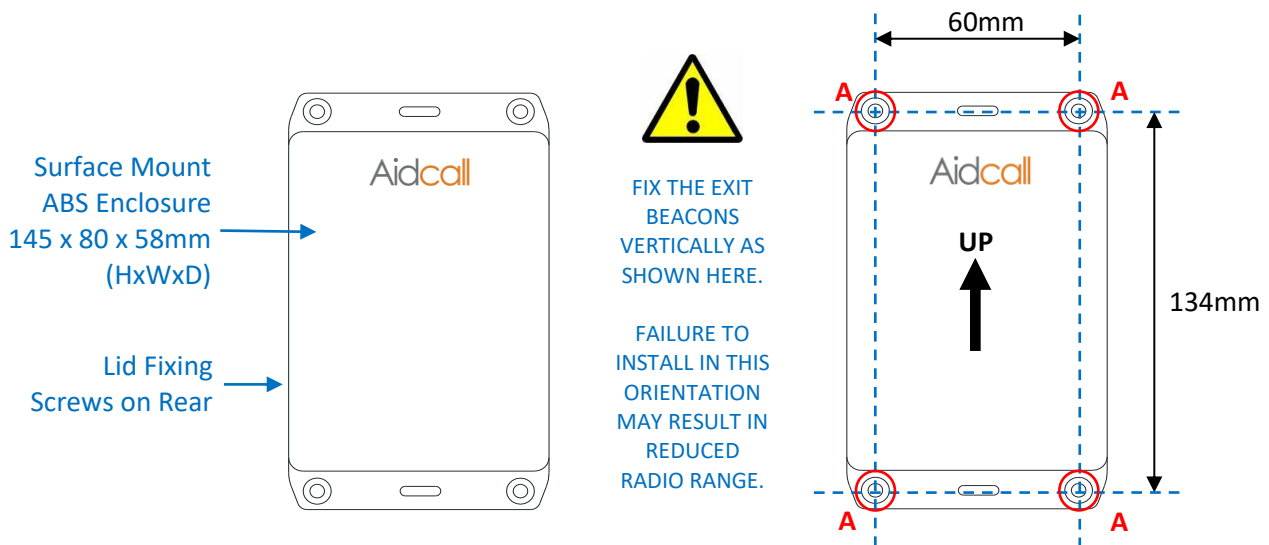
Exit Beacons are battery powered and operate wirelessly – typical battery life 3 years.

A maximum of 150 Exit Beacons can be installed per site; the total number and positioning will be determined by an RF survey prior to commencing the installation.

### EXIT BEACON FIXING

Undo the 4 screws on the rear face, remove the lid and connect the batteries, then refit the rear cover. Fix the Exit Beacon to the wall using 4 screws through the fixing holes “A” shown below.

**IMPORTANT:** to ensure maximum radio coverage always fix the Exit Beacons vertically as shown below;



### BATTERY REPLACEMENT

To replace the batteries, first unscrew the Exit Beacon from the wall then remove the lid by undoing the 4 screws on the rear face. Replacement batteries: 2 x Duracell Procell MN1300 LR20 1.5V Alkaline.

## 15. CHARGER INSTALLATION

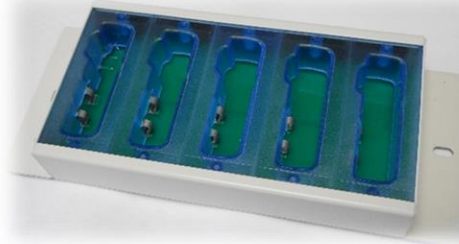
The single or 5 way charger must be situated within radio range of the Paging system. Each charger is provided with a plug-top power supply which is simply plugged-into a mains supply. An optional 45° wall mounting bracket is available for the 5 way charger.

Single Charger  
Part No. ZNC581



Optional Wall Bracket for 5 Way Charger  
Part No. W07516

5 Way Charger  
Part No. ZNC582



## 16. LOGON TERMINAL INSTALLATION

The Logon Terminal allows the “Pager ID” to be temporarily changed to a unique “Staff ID” for Nurse Present operation. *This means a small number of Pagers can be used by different members of staff on rotating shift patterns rather than all staff having their own personal Pager.* Nurse Present activity is then recorded on the Nursecall system. Refer to the Pager user guide (Doc No. FM5605) for more information.

The Logon Terminal is provided with a plug-top power supply which is simply plugged-into a mains supply. The Logon Terminal can be free-standing or wall mounted using the 45° bracket supplied.

Logon Terminal  
Part No. ZNC583



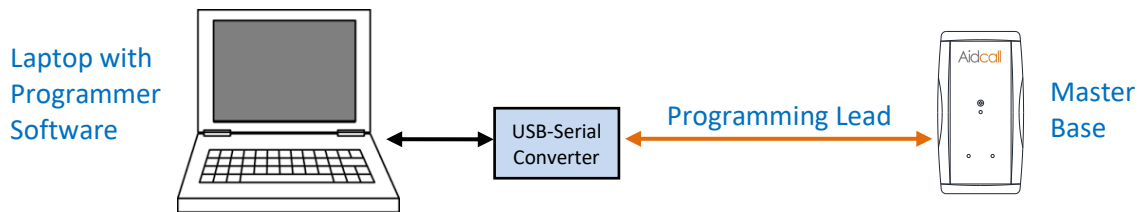
45° Wall Bracket



Please note when a Pager has a temporary Staff ID set via the Logon Terminal it will reset back to its original ID when Pager is placed in the Charger.

## 17. PROGRAMMING

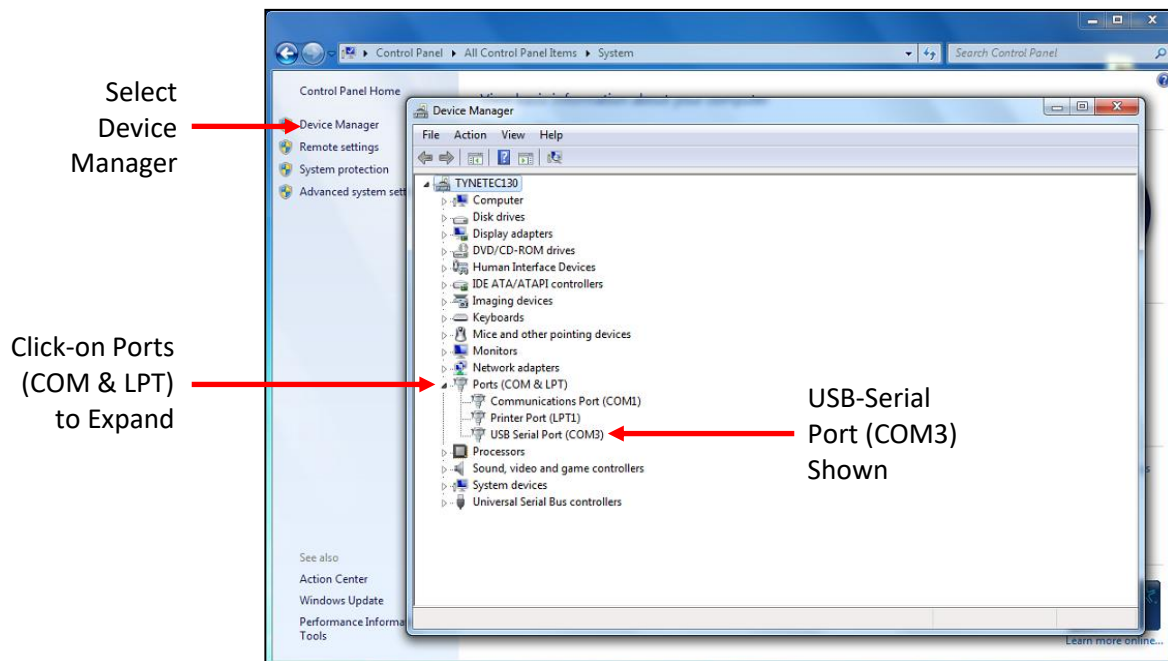
The paging system is programmed using a Laptop PC running the Master Base Programming software. This software is available as a free download from <https://www.aidcall.co.uk/on-demand/>. Connect the Laptop via a USB-Serial converter to the Master Base using the programming lead (Aidcall Part No. ZNC577).



### COMM PORT SETUP

The Programmer communicates serially with the Master Base; the correct Serial Port needs to be set in the programmer.

To determine the correct COM Port; plug the USB-Serial converter into a USB port then from the Windows Start button select Control Panel>System>Device Manager then click-on "Ports (COM & LPT)"...



Make a note the COM Port number (in this case COM3). The example above is for Window 7, XP and Vista are similar.

## 17. PROGRAMMING

Run the Master Base programmer software and select the correct COM Port from the pull-down list...

The screenshot shows the 'MASTER BASE PROGRAMMING' software interface. At the top, there are tabs: 'POLL MONITOR', 'OVER AIR PROGRAMMING' (highlighted with a red circle and an arrow from the text 'Over Air Programming Tab'), and 'AGING DOWNLOAD'. Below the tabs are three main tables: 'BEACON TEXT TABLE', 'SWIPE TEXT TABLE', and 'FIXED ALARM TEXT TABLE'. Each table has columns for ID, TEXT, and ZONE. Below these tables are buttons for 'Program Beacons 000-254', 'Read Beacons', 'Program Swipe 000-254', 'Read Swipe', 'Program Fixed 000-254', and 'Read Fixed'. In the center, there are 'SYSTEM PARAMETERS' for 'System ID', 'M Freq', and 'A Freq', with a 'Program System Parameters' button. Below this is the 'COMM PORT SELECTION' section, where 'COM 4' is selected in a pull-down menu, and 'Open Port' and 'Close Port' buttons are visible. To the right of this is the 'FILE EXPORT/IMPORT' section with 'Open CSV File' and 'Save CSV File' buttons. At the bottom left, a green box displays 'NO POLL'. At the bottom right, there is an 'ALARM SETUP TABLE' and a 'PAGER KEY FOR TYPE' section. Annotations include: '1. Select Com Port Here' pointing to the 'COM 4' dropdown; '2. After selecting the COM Port click-on the "Open Port" button' pointing to the 'Open Port' button; and '3. This box should show "CONNECTED"' pointing to the 'NO POLL' box.

4. Now click-on the "Over Air Programming" tab at the top of the screen.

### IMPORTANT NOTES ON PAGER ID's

Please observe the rules below when setting-up Pager ID's;

- Up to 6 different Pager ID's can be used per site
- Use 3 digit ID's in the range 101 to 999 whenever possible
- ID's should NOT have leading 0's i.e. 001 to 099
- ID's 000 and 100 must not be used<sup>‡</sup>
- It is possible to use letters A-Z for the first and second characters only
- ID's A00, B00 to Z00 must not be used<sup>‡</sup>

<sup>‡</sup>The Touchsafe Pro uses the last 2 digits of the Pager ID as the unique Staff ID for the Nurse Present feature. The Staff ID must be in the range 01 to 99 (00 is not a valid ID).

If a letter is used for the first character only e.g. G01 then the Pager will send 01 as the Staff ID.

If letters are used for the first and second characters e.g. GD1 then the Pager will not send a Staff ID, thus indicating the staff member has not logged-on to the Pager with their own ID. *This should not cause an issue if the system is being operated correctly and the staff log-on to their Pagers for every shift.*

Please note the current Staff ID will be displayed on the Pager and will be updated every time a different member of staff logs-on or when the Pager is returned to the Charger.

## 17. PROGRAMMING

### OVER AIR PROGRAMMING TAB

2. If you don't require a new ID ensure this box is the same number

1. Select ID of Pager to be programmed (shown on LCD)

3. Set Pager group ID codes (G1-G5) the same as setup in the Touchsafe Pro Panel

8. **CANCEL**  
Set as "Y" only if Pager Red Button is being used for Emergency calls

9. When all parameters are set press **PROGRAM** to configure a Pager

10. Check the "Acknowledge Reply" area fills with data when programmed

4. **OOR TIME**  
Use drop-down list to select 2 minutes delay before bleeper and "PLACE IN RACK" display when Pager is Out Of Range (OOR)

5. **BLEEP**  
Use drop-down list to select sounder and vibrate

6. **IR EVENT**  
Use drop-down list to select Nurse Present IR function

7. **RED BUTTON**  
Set as "Y" only if Pager Red Button is being used for Emergency calls



To use the day/night bleeper/vibrate feature it is necessary to program the Pager with a **Vib Only** option and switch Vibrator to N in the menu options. The Log-on is then e.g. 123# day (bleep) and 123\* night (vibrate).



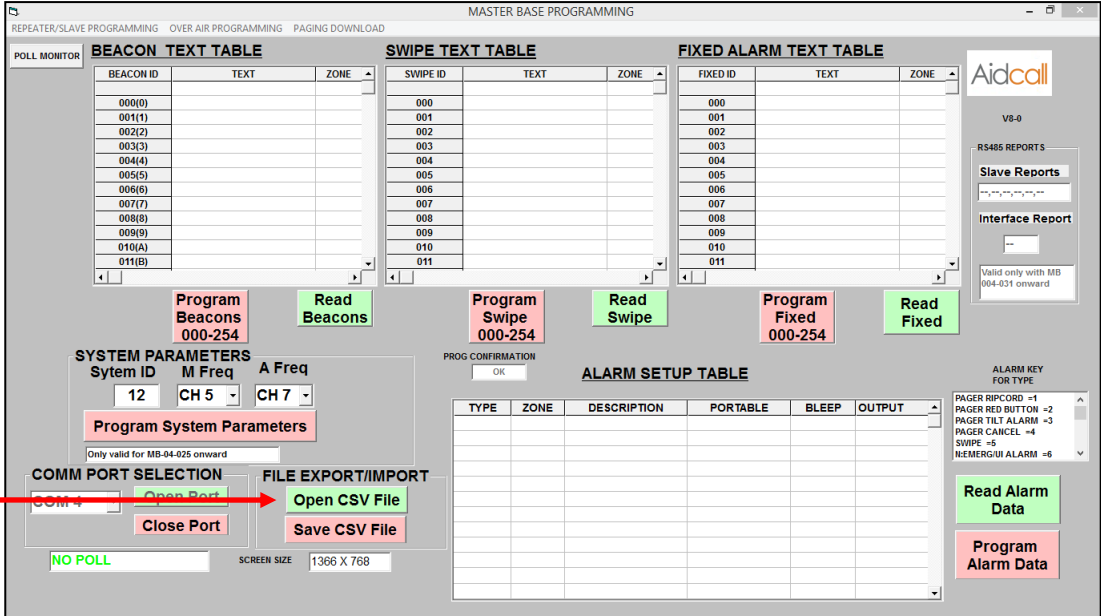
If the Pager volume is set as high from the Bleep drop-down list it can be set to low from the Pager menu, however it will return to high if the Pager is turned off and on again.

## 17. PROGRAMMING

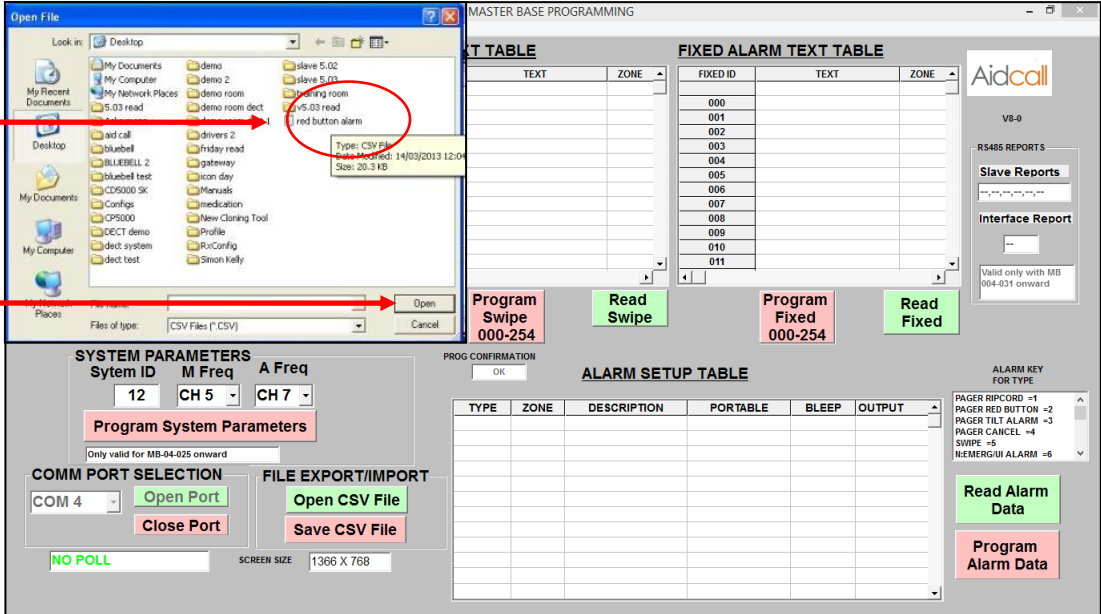
### RED ALARM BUTTON SETUP

If the red  alarm button is enabled in the pager programming options it can be configured to call the other pagers on that group code with an Emergency call through the Paging system. The pager will then transmit an infra-red Emergency call to any IR enabled Touchsafe Pro call points in range and this call will be shown on the Nursecall system.

On the Master Base Programming tab; click-on the **“Open CSV File”** button and select the **“red button alarm”** file...



Click-on  
Open CSV  
File Button



Click-on  
red button  
alarm file

Click-on  
the Open  
Button

## 17. PROGRAMMING

Edit the tables as required...

With no beacons on the system it is necessary to have "EMERGENCY" programmed in for locations 0 and 1  
Alarms are in zone A

**BEACON TEXT TABLE**

| BEACON ID | TEXT      | ZONE |
|-----------|-----------|------|
| 000(0)    | EMERGENCY | A    |
| 001(1)    | EMERGENCY | A    |
| 002(2)    |           |      |
| 003(3)    |           |      |
| 004(4)    |           |      |
| 005(5)    |           |      |
| 006(6)    |           |      |
| 007(7)    |           |      |
| 008(8)    |           |      |
| 009(9)    |           |      |
| 010(A)    |           |      |
| 011(B)    |           |      |

**SWIPE TEXT TABLE**

| SWIPE ID | TEXT | ZONE |
|----------|------|------|
| 000      |      |      |
| 001      |      |      |
| 002      |      |      |
| 003      |      |      |
| 004      |      |      |
| 005      |      |      |
| 006      |      |      |
| 007      |      |      |
| 008      |      |      |
| 009      |      |      |
| 010      |      |      |
| 011      |      |      |

**FIXED ALARM TEXT TABLE**

| FIXED ID | TEXT | ZONE |
|----------|------|------|
| 000      |      |      |
| 001      |      |      |
| 002      |      |      |
| 003      |      |      |
| 004      |      |      |
| 005      |      |      |
| 006      |      |      |
| 007      |      |      |
| 008      |      |      |
| 009      |      |      |
| 010      |      |      |
| 011      |      |      |

**ALARM SETUP TABLE**

| TYPE | ZONE | DESCRIPTION | PORTABLE | BLEEP | OUTPUT |
|------|------|-------------|----------|-------|--------|
| 4    | A    | P CANCEL    | 456      | 4     | S01    |
| 4    | B    | P CANCEL    | 222      | 4     | S01    |

After the alarm has been sent the Portable (Pager) will display "CANCEL?"  
Pressing the Tick button will send a CANCEL call to group 456.  
(P CANCEL = Portable Cancel)

The red button alarm in zone A calls group 456

Tone type

### G5 "WILD CARD" CAP CODE

G5 in the Pager is a "Wild Card" CAP Code - meaning that the first number of the 3 digit CAP Code will page any Pager with a CAP Code of the first digit. For example, if you have 10 pagers programmed as below;

|          | G1         | G2         | G3         | G4         | G5         |
|----------|------------|------------|------------|------------|------------|
|          | CAP Code 1 | CAP Code 2 | CAP Code 3 | CAP Code 4 | CAP Code 5 |
| Pager 1  | 101        | 121        | 301        | 231        | 399        |
| Pager 2  | 102        | 121        | 307        | 231        | 399        |
| Pager 3  | 103        | 121        | 501        | 232        | 555        |
| Pager 4  | 104        | 121        | 301        | 232        | 555        |
| Pager 5  | 105        | 121        | 507        | 233        | 555        |
| Pager 6  | 106        | 125        | 501        | 233        | 555        |
| Pager 7  | 107        | 125        | 301        | 599        | 399        |
| Pager 8  | 108        | 125        | 627        | 244        | 399        |
| Pager 9  | 109        | 125        | 637        | 695        | 399        |
| Pager 10 | 110        | 125        | 307        | 255        | 322        |

If the Touchsafe Pro panel pages CAP code 301 then Pagers 1, 2, 4, 7 & 10 would page the call.

Pagers 1, 4 & 7 would page because they have the CAP Code 301 in them.

Pagers 2 & 10 would also page because their G5 CAP Code starts with a "3" and Pagers 2 & 10 have a CAP Code in G1, G2, G3 or G4 that also starts with a "3".

## 17. PROGRAMMING

### EXIT BEACONS

Exit Beacons must all be programmed with an ID of 001 and in addition each will require a unique Individual Code (IC). If the IC of a Beacon is not known then a default IC can be set by disconnecting the batteries then holding the small PCB mounted switch when powering-up.

The Beacon will then be set to ID 900 and can now be reprogrammed from the Over Air Programming Tab. Enter details in the **BEACON SETUP** area of the screen...

1. Enter the Beacon IC code (900 if reset), then the new IC if required
2. Enter the Beacon ID (001 for Exit Beacon)
3. Select increasing power levels from the drop-down list (set -10 as start point then work up or down)
4. Click-on the Program Beacon button

The screenshot shows the 'Over Air Programming' window. The 'BEACON SETUP' section contains the following fields and controls:

- BEACON PROGRAMMING:**
  - SYS ID: 12
  - NEW SYS ID: 12
  - BEACON ID: 001 (DECIMAL)
  - POWER VALUE: -10 dBm
  - IC ID: 902
  - NEW IC ID: 902
  - HEX: 01
  - PROGRAM BEACON** button
- BEACON RESPONSE:** Shows previous settings with columns for Sys ID, IC ID, Beacon ID, Power Value, Status, RSSI, and Q.
- BEACON NOTES:** A list of beacon codes and their frequencies, including EXIT BEACON = 01(001) and various ZONE TRIG Beacons.

5. The **BEACON RESPONSE** area of the screen will first show the previous settings i.e. how the Beacon was programmed before the last programming call. To check the programming was received correctly set up another programming call to the new IC and check the received acknowledgement.

## 17. PROGRAMMING

### REPEATERS/SLAVE BASES

Click-on the “Repeater/Slave Programming” tab at the top of the main screen to open the Repeater Programming Form...

**REPEATER PROGRAMMING**

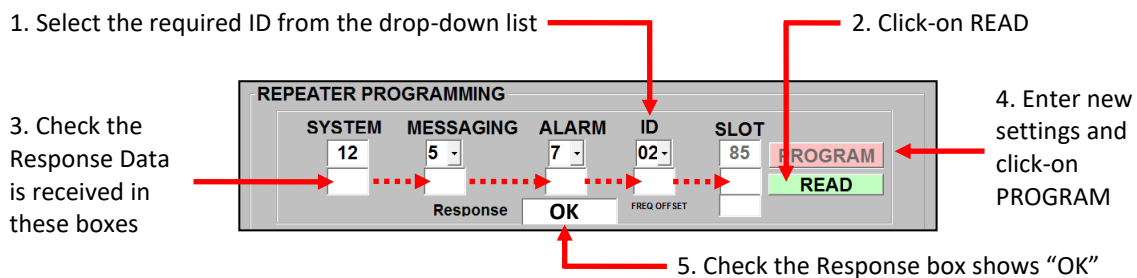
SYSTEM: 12, MESSAGING: 5, ALARM: 7, ID: 02, SLOT: 85. Buttons: PROGRAM, READ.

**SLAVE PROGRAMMING**

SYSTEM M: 12, CHANNEL A: 5, CHANNEL B: 7, ID: 03, RS 485 ADDRESS: 34. Buttons: PROGRAM, READ.

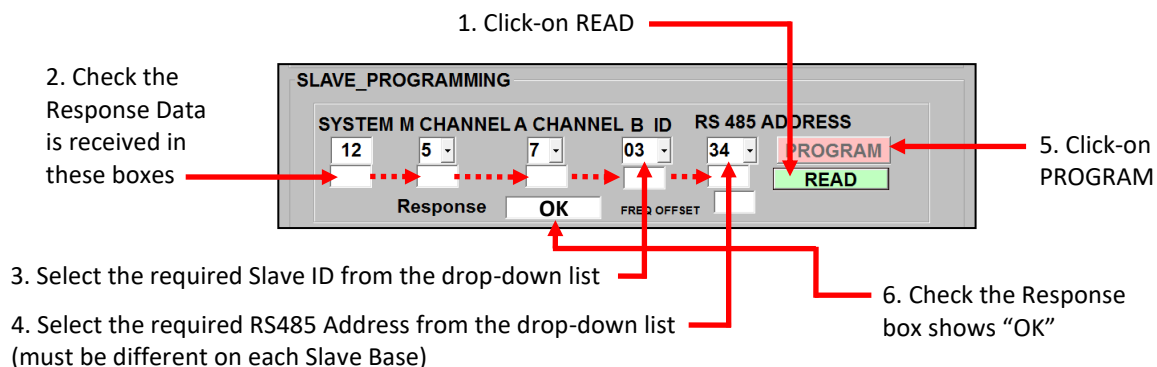
### PROGRAMMING REPEATERS

Ensure the Repeater is in the radio coverage area and the Green/Yellow 2 Second Sync LED is flashing. Connect the same programming lead used for the Master Base to the Repeater.



### PROGRAMMING SLAVE BASES

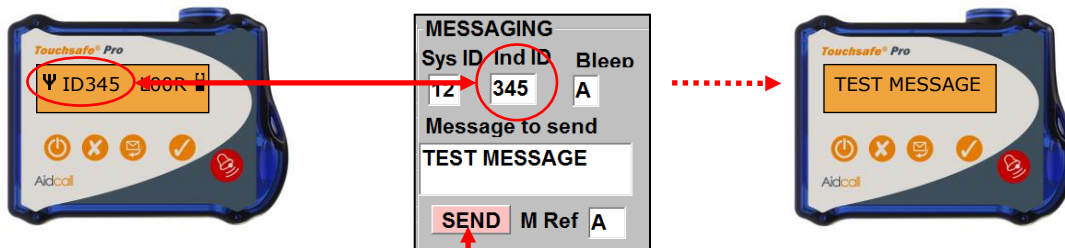
Ensure the power and RS485 data bus is disconnected. Insert the Slave programming lead and apply power. *Note: different lead to that used for Master/Repeater.*



## 18. PAGER TESTING

When the Paging system is fully installed and setup plug the Laptop running the Programmer software into the Master Base and select the Over Air Programming tab...

1. Enter the Pager ID you want to test in the **MESSAGING** area of the screen



2. Click-on **SEND** and "TEST MESSAGE" should appear on the Pager...

3. Repeat the test with other ID's in the Groups 1 to 5



To avoid the likelihood of data collisions un-plug the Interface unit from the Nursecall system when sending test calls from the programmer.

## 19. TOUCHSAFE PRO PANEL SETUP

Go to the Touchsafe Pro Master Panel (ID 1), Logon as an Engineer and select the **Panel Details** option...

Select which Panel ID the Interface is being connected to from the **Paging Panel** pull-down box.

*Note: this only needs to be set on the Master Panel (ID 1).*

Press the **Save** button then **Close** to exit.

Still on Touchsafe Pro Master Panel (ID 1), select the **Common Pagers** option...

Enter the 3 digit Pager ID's<sup>123#?</sup> in the boxes alongside each call type group (**Cardiac**, **Emergency**, etc.) for ones you want to be notified during the **Day**, **Night 1** and **Night 2** modes.

*The keypad will be displayed when you click on a box to enter a pager ID - you may need to press the **123#?** button to select the numeric keypad.*

Press the **Save** button then **Close** to exit.

Alternatively, Pagers can be set to operate by Zone - see next page...

<sup>123#?</sup> Pager ID's (max 6 per site) must be setup in the Paging system – see page 21 for details.

## 19. TOUCHSAFE PRO PANEL SETUP

Still on Touchsafe Pro Master Panel (ID 1), select the **Zoned Pagers** option...

Select a **Zone** from the pull-down box then enter the 3 digit Pager ID's<sup>[1]</sup> you want to be notified during the **Day**, **Night 1** and **Night 2** modes in the boxes alongside each call type group (**Cardiac**, **Emergency**, etc.).

<sup>[1]</sup>See "Notes on Pager ID's" on page 21.

*The keypad will be displayed when you click on a box to enter a pager ID - you may need to press the **123#?** button to select the numeric keypad.*

Press the **Save** button then **Close** to exit.

Go to the Touchsafe Pro Panel with the Interface connected, Logon as an Engineer and select the **Paging Setup** option...

Set the **Protocol** option to **●Astra/Bluebell**

Select the **Beep Codes** you want the Pager to sound from the pull-down boxes alongside each call type.

*See the Beep Code table below.*

Set the **Re-Paging Delay** from the pull-down box; if an alarm call is not accepted when this period expires the Pagers will be notified again.

Press the **Save** button then **Close** to exit.

| Pager Beep Code | Pager Beep Pattern  |
|-----------------|---------------------|
| 0, 3            | 8 short beeps       |
| 1               | 1 long beep         |
| 2, 5            | 15 short beeps      |
| 4, 6            | 8 long beeps        |
| 7               | 8 double beeps      |
| 8               | 8 triple beeps      |
| 9               | 15 second long tone |

*Enter the Beep Code to choose the beep pattern the Pager will sound for each call type.*

## 20. BATTERY REPLACEMENT

The boxed 12V DC 1A power supply unit provided for the interface includes a 12V 1.2Ah rechargeable battery. This battery will maintain normal operation for several hours in the event of a mains power failure.

12V DC 1A  
Power Supply



12V 1.2Ah Lead Acid  
Rechargeable Battery

The rechargeable battery should be removed and tested by a Service Engineer on an annual basis and replaced every 5 years.

With the battery disconnected; check the charge voltage across the battery leads is between 13.6V DC and 14.2V DC (13.8V nominal).

If the battery shows any signs of damage, swelling or leakage during an annual inspection it should be replaced immediately.

Only replace with the Manufacturers Approved battery type:

**Yuasa NP1.2-12: 12V 1.2Ah Sealed Lead Acid Rechargeable Battery**

Replacement batteries are available from Aidcall; order Part No. F00619

IMPORTANT: always mark the battery with the date it was replaced for reference on future Service visits.

### REPEATERS

Repeaters include a rechargeable battery pack which is not onsite replaceable.

Repeaters should be returned to Aidcall for battery replacement every 5 years.

IMPORTANT: always mark the Repeater with the date the battery was replaced for reference on future Service visits.

### EXIT BEACONS

Exit Beacons include 2 Alkaline batteries, these should be removed and tested by a Service Engineer on an annual basis and replaced every 3 years.

Only replace with the Manufacturers Approved battery type:

**Duracell Procell MN1300 LR20 1.5V Alkaline Battery**

IMPORTANT: always mark the Exit Beacon with the date the batteries were replaced for reference on future Service visits.



*See section 3 of this manual for Regulations regarding the safe disposal of used batteries.*

## 21. SPECIFICATION

| Interface                   |                                                              |
|-----------------------------|--------------------------------------------------------------|
| Aidcall Part No.            | ZNC570 (previously Aidcall W07504 or Bluebell BMB01-P)       |
| Radio Approval              | ETSI EN300-220-1 V2.3.1                                      |
| EMC Approval                | ETSI ETS300-683                                              |
| Serial Interface            | RS232 2400 Baud (Ackerman Protocol)                          |
| Data Bus                    | RS485                                                        |
| LED Indicators              | Blue = RS232 RX, Green = Power and Green/Yellow = 2 Sec Sync |
| Operating Voltage           | 12V DC                                                       |
| Operational Current         | 100mA                                                        |
| Enclosure Material          | ABS (Light Grey)                                             |
| Ingress Protection Rating   | IP20                                                         |
| Dimensions                  | 160mm x 85mm x 29mm (HxWxD)                                  |
| Weight                      | 155 grams                                                    |
| Operating Temperature Range | -5°C to 40°C                                                 |

| Master Base                 |                                                      |
|-----------------------------|------------------------------------------------------|
| Aidcall Part No.            | ZNC571 (previously Aidcall W07500 or Bluebell BMB01) |
| Radio Approval              | ETSI EN300-220-1 V2.3.1                              |
| EMC Approval                | ETSI ETS300-683                                      |
| Transmission Frequency      | 869MHz Pan-European SRD Frequency Band               |
| Transmission Range          | 200 metres (open field)                              |
| Data Bus                    | RS485                                                |
| LED Indicators              | Green = Power and Green/Yellow = 2 Sec Sync          |
| Operating Voltage           | 12V DC                                               |
| Operational Current         | 100mA                                                |
| Enclosure Material          | ABS (Light Grey)                                     |
| Ingress Protection Rating   | IP20                                                 |
| Dimensions                  | 160mm x 85mm x 29mm (HxWxD)                          |
| Weight                      | 160 grams                                            |
| Operating Temperature Range | -5°C to 40°C                                         |

| Slave Base                  |                                                        |
|-----------------------------|--------------------------------------------------------|
| Aidcall Part No.            | ZNC572 (previously Aidcall W07502 or Bluebell BMB01-S) |
| Radio Approval              | ETSI EN300-220-1 V2.3.1                                |
| EMC Approval                | ETSI ETS300-683                                        |
| Transmission Frequency      | 869MHz Pan-European SRD Frequency Band                 |
| Transmission Range          | 200 metres (open field)                                |
| Data Bus                    | RS485 (2 second poll)                                  |
| LED Indicators              | Green = Power and Green/Yellow = 2 Sec Sync            |
| Operating Voltage           | 12V DC                                                 |
| Operational Current         | 100mA                                                  |
| Enclosure Material          | ABS (Light Grey)                                       |
| Ingress Protection Rating   | IP20                                                   |
| Dimensions                  | 160mm x 85mm x 29mm (HxWxD)                            |
| Weight                      | 160 grams                                              |
| Operating Temperature Range | -5°C to 40°C                                           |

## 21. SPECIFICATION

| <b>Repeater &amp; PSU</b>   |                                                        |
|-----------------------------|--------------------------------------------------------|
| Aidcall Part No.            | ZNC573 (previously Aidcall W07501 or Bluebell BMB01-R) |
| Radio Approval              | ETSI EN300-220-1 V2.3.1                                |
| EMC Approval                | ETSI ETS300-683                                        |
| Transmission Frequency      | 869MHz Pan-European SRD Frequency Band                 |
| Transmission Range          | 200 metres (open field)                                |
| LED Indicators              | Green = Power and Green/Yellow = 2 Sec Sync            |
| Plug-Top PSU Module         | 12V DC 500mA (Pro-Elec PEL00395)                       |
| Enclosure Material          | ABS (Light Grey)                                       |
| Ingress Protection Rating   | IP20                                                   |
| Dimensions                  | 160mm x 85mm x 29mm (HxWxD)                            |
| Weight                      | 191 grams (excluding PSU)                              |
| Operating Temperature Range | -5°C to 40°C                                           |

| <b>Hop Repeater &amp; PSU</b> |                                                         |
|-------------------------------|---------------------------------------------------------|
| Aidcall Part No.              | ZNC574 (previously Aidcall W07521 or Bluebell BMB01-SH) |
| Radio Approval                | ETSI EN300-220-1 V2.3.1                                 |
| EMC Approval                  | ETSI ETS300-683                                         |
| Transmission Frequency        | 869MHz Pan-European SRD Frequency Band                  |
| Transmission Range            | 200 metres (open field)                                 |
| No. of Hops                   | 5                                                       |
| LED Indicators                | Green = Power and Green/Yellow = 2 Sec Sync             |
| Plug-Top PSU Module           | 12V DC 500mA (Pro-Elec PEL00395)                        |
| Enclosure Material            | ABS (Light Grey)                                        |
| Ingress Protection Rating     | IP20                                                    |
| Dimensions                    | 160mm x 85mm x 29mm (HxWxD)                             |
| Weight                        | 160 grams                                               |
| Operating Temperature Range   | -5°C to 40°C                                            |

| <b>Repeater/Slave PSU Module</b> |                                              |
|----------------------------------|----------------------------------------------|
| Pro-Elec Part No.                | PEL00395 (Aidcall W00561)                    |
| Input Voltage                    | 100-240VAC 50/60Hz 0.3A Max                  |
| Output Voltage/Power             | 12V DC 6W                                    |
| Max Output Current               | 500mA                                        |
| Output Plug                      | Barrel Plug Centre Positive 2.5 x 5.5 x 12mm |
| Output Cable                     | 1.8 metres                                   |
| Dimensions                       | 65mm x 38mm x 34mm (HxWxD)                   |
| Weight                           | 80 grams                                     |
| Operating Temperature Range      | 0°C to 50°C                                  |

## 21. SPECIFICATION

|                             |                                                         |
|-----------------------------|---------------------------------------------------------|
| <b>Exit Beacon</b>          |                                                         |
| Aidcall Part No.            | ZNC576 (previously Aidcall W07510 or Bluebell BB01)     |
| Radio Approval              | ETSI EN300-220-1 V2.3.1                                 |
| EMC Approval                | ETSI ETS300-683                                         |
| Transmission Frequency      | 869MHz Pan-European SRD Frequency Band                  |
| Transmission Range          | Adjustable 1 to 20 metres (open field)                  |
| Operating Voltage           | 3V DC                                                   |
| Battery Type                | 2 No. Duracell Procell 1.5V Alkaline Size D MN1300 LR20 |
| Typical Battery Life        | 3 Years                                                 |
| Enclosure Material          | ABS (Light Grey)                                        |
| Ingress Protection Rating   | IP54                                                    |
| Dimensions                  | 145mm x 80mm x 58mm (HxWxD)                             |
| Weight                      | 460 grams (including batteries)                         |
| Operating Temperature Range | -5°C to 40°C                                            |

|                             |                                                          |
|-----------------------------|----------------------------------------------------------|
| <b>Logon Terminal</b>       |                                                          |
| Aidcall Part No.            | ZNC583 (previously Aidcall W07511 or Bluebell BLT02)     |
| Plug-Top PSU Module         | 12V DC 500mA (Pro-Elec PEL00395)                         |
| Enclosure Material          | 18 SWG Mild Steel                                        |
| Finish                      | Polyester Powder Coated Semi-Gloss Grey White (RAL 9002) |
| Dimensions                  | 105mm x 120mm x 30mm (HxWxD)                             |
| Weight                      | 340 grams (excluding PSU)                                |
| Operating Temperature Range | -5°C to 40°C                                             |

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| <b>Logon Terminal PSU Module</b> |                                              |
| Pro-Elec Part No.                | PEL00395 (Aidcall W00561)                    |
| Input Voltage                    | 100-240VAC 50/60Hz 0.3A Max                  |
| Output Voltage/Power             | 12V DC 6W                                    |
| Max Output Current               | 500mA                                        |
| Output Plug                      | Barrel Plug Centre Positive 2.5 x 5.5 x 12mm |
| Output Cable                     | 1.8 metres                                   |
| Dimensions                       | 65mm x 38mm x 34mm (HxWxD)                   |
| Weight                           | 80 grams                                     |
| Operating Temperature Range      | 0°C to 50°C                                  |

|                                    |                                                          |
|------------------------------------|----------------------------------------------------------|
| <b>Logon Terminal Wall Bracket</b> |                                                          |
| Bracket Material                   | 16 SWG Mild Steel                                        |
| Finish                             | Polyester Powder Coated Semi-Gloss Grey White (RAL 9002) |
| Dimensions                         | 105mm x 120mm x 60mm (HxWxD)                             |
| Weight                             | 225 grams                                                |

## 21. SPECIFICATION

|                             |                                                          |
|-----------------------------|----------------------------------------------------------|
| <b>Single Charger</b>       |                                                          |
| Aidcall Part No.            | ZNC581 (previously Aidcall W07508 or Bluebell BRS01)     |
| Mounting Options            | Free Standing or Wall Mounted                            |
| Plug-Top PSU Module         | 12V DC 1.0A (Modified Power Pax SW4010G)                 |
| LED Indicator               | Blue = Power                                             |
| Enclosure Material          | 18 SWG Mild Steel                                        |
| Finish                      | Polyester Powder Coated Semi-Gloss Grey White (RAL 9002) |
| Dimensions                  | 35mm x 100mm x 50mm (HxWxD)                              |
| Weight                      | 180 grams (excluding PSU)                                |
| Operating Temperature Range | -5°C to 40°C                                             |

|                                  |                                                                   |
|----------------------------------|-------------------------------------------------------------------|
| <b>Single Charger PSU Module</b> |                                                                   |
| Power Pax Part No.               | SW4010G                                                           |
| Input Voltage                    | 100-240VAC 50/60Hz 0.4A Max                                       |
| Output Voltage/Power             | 12V DC 12W                                                        |
| Max Output Current               | 1.0A                                                              |
| Output Plug                      | Modified: Barrel Plug Centre Positive changed to 1.3 x 5.0 x 12mm |
| Output Cable                     | 1.8 metres                                                        |
| Dimensions                       | 79mm x 50mm x 38mm (HxWxD)                                        |
| Weight                           | 110 grams                                                         |
| Operating Temperature Range      | 0°C to 50°C                                                       |

|                             |                                                               |
|-----------------------------|---------------------------------------------------------------|
| <b>5 Way Charger</b>        |                                                               |
| Aidcall Part No.            | ZNC582 (previously Aidcall W07507 or Bluebell BRM01)          |
| Mounting Options            | Free Standing or Wall Mounted (optional 45° bracket required) |
| Plug-Top PSU Module         | 12V DC 1.0A (Power Pax SW4010G)                               |
| LED Indicator               | Blue = Power                                                  |
| Enclosure Material          | 18 SWG Mild Steel                                             |
| Finish                      | Polyester Powder Coated Semi-Gloss Grey White (RAL 9002)      |
| Dimensions                  | 95mm x 240mm x 36mm (HxWxD)                                   |
| Weight                      | 760 grams (excluding PSU)                                     |
| Operating Temperature Range | -5°C to 40°C                                                  |

|                                 |                                              |
|---------------------------------|----------------------------------------------|
| <b>5 Way Charger PSU Module</b> |                                              |
| Power Pax Part No.              | SW4010G (Aidcall W00562)                     |
| Input Voltage                   | 100-240VAC 50/60Hz 0.4A Max                  |
| Output Voltage/Power            | 12V DC 12W                                   |
| Max Output Current              | 1.0A                                         |
| Output Plug                     | Barrel Plug Centre Positive 2.1 x 5.0 x 12mm |
| Output Cable                    | 1.8 metres                                   |
| Dimensions                      | 79mm x 50mm x 38mm (HxWxD)                   |
| Weight                          | 110 grams                                    |
| Operating Temperature Range     | 0°C to 50°C                                  |

|                                  |                                                          |
|----------------------------------|----------------------------------------------------------|
| <b>Optional 45° Wall Bracket</b> |                                                          |
| Aidcall Part No.                 | W07516-1                                                 |
| Bracket Material                 | 16 SWG Mild Steel                                        |
| Finish                           | Polyester Powder Coated Semi-Gloss Grey White (RAL 9002) |
| Dimensions                       | 95mm x 235mm x 60mm (HxWxD)                              |
| Weight                           | 490 grams                                                |

## 22. AIDCALL/BLUEBELL PART NUMBER CROSS REFERENCE TABLE

| Product                           | New Aidcall Part No. | Old Aidcall Part No. | Bluebell Part No. |
|-----------------------------------|----------------------|----------------------|-------------------|
| Interface                         | ZNC570               | W07504               | BMB01-P           |
| Master Base                       | ZNC571               | W07500               | BMB01             |
| Slave Base                        | ZNC572               | W07502               | BMB01-S           |
| Repeater & PSU                    | ZNC573               | W07501               | BMB01-R           |
| Hop Repeater & PSU                | ZNC574               | W07521               | BMB01-SH          |
| Wireless Exit Beacon              | ZNC576               | W07510               | BB01              |
| Master/Repeater Programming Lead  | ZNC577               | W07518               | 15017             |
| Slave Programming Lead            | ZNC578               | W07525               | 15018             |
| Pager                             | ZNC580               | W07503               | BP01-SA           |
| 1 Way Charger & PSU               | ZNC581               | W07508               | BRS01             |
| 5 Way Charger & PSU               | ZNC582               | W07507               | BRM01             |
| Logon Terminal & PSU              | ZNC583               | W07511               | BLT02             |
| Survey Pager                      | ZNC585               | W07506               | BP01-SU           |
| Survey Pager Kit                  | ZNC586               | W07523               | BB01-SK           |
| 5 Way Charger Wall Mounting Plate | W07516-1             | W07516               | 13017             |
| Repeater/Logon Terminal Spare PSU | W00561               | W07524               | 15004             |
| 5 Way Charger Spare PSU           | W00562               | W07526               | 15013             |
| USB to RS232 Converter Lead       | W01150               | W07519               | 15016             |