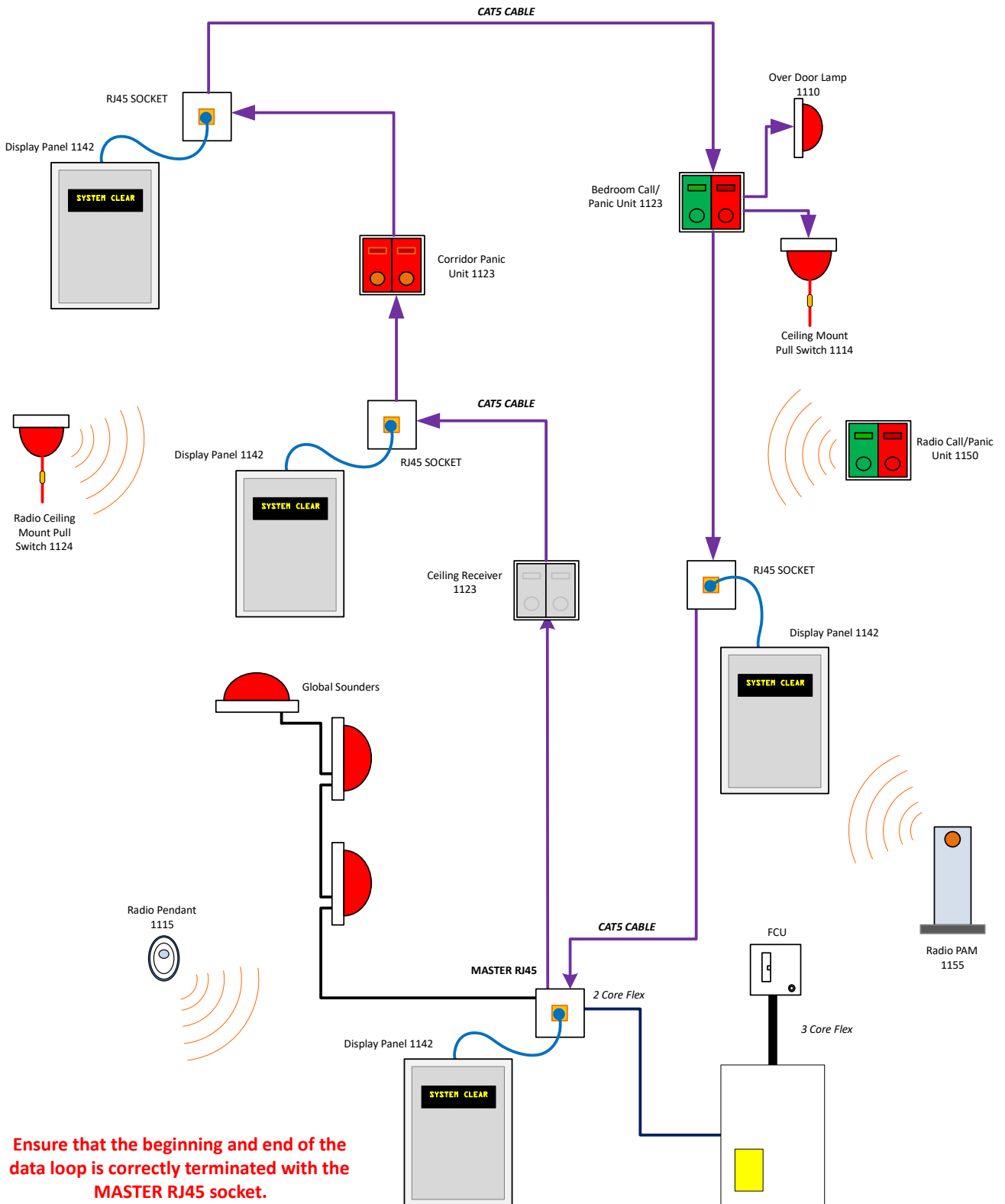


1142RX Series – Example Wired System Schematic



Ensure that the beginning and end of the data loop is correctly terminated with the MASTER RJ45 socket.

If termination is not performed, the data loop will not perform as expected and leave the clients vulnerable!

Installation & Maintenance of the System

Panic button names/IDs

Orders are despatched with the panic button names/IDs provided at the time of ordering. Alternative names should be sent to Call Aid UK with your order for programming into the system.

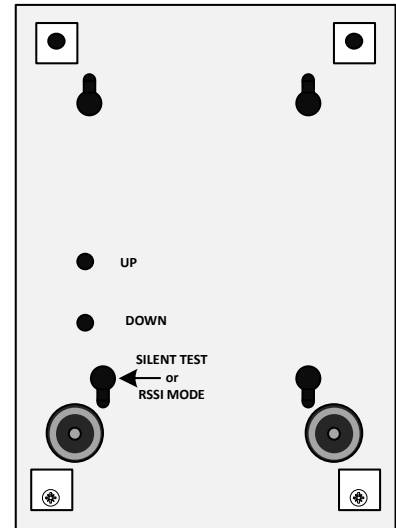
Silent Test & RSSI (radio signal strength indicator) Mode

To activate the RSSI test mode, press the RSSI switch at the reverse of the receiver. This mode can only be activated when there is no activity on the system.

To exit this mode, press the RSSI switch again. The RSSI test mode can be exited at any time.

Up to 50 signal strength reports can be shown at any one time.

Before the test for signal strength is carried out position the 1142RX master in the position on the wall where it is to be used. When in RSSI mode take the applicable panic button to the location where it is to be used. Press one of the buttons on the panic button. Check the value that is on the 1142RX display. A value ranging from 200 – 45 will be displayed on the 1142RX master. The higher the better but a minimum of 55 is recommended to give a reliable signal.



Repeat this process until all the units have been tested. There is no need to action anything at the 1142RX master as each time a panic button is tested it updates the RSSI value.

It is sensible to keep a record of this test so that should there be difficulties with receiving signals from all the units above the 55 RSSI value you will be able to "Map" how the signal is propagating through the building.

If you cannot setup the system due to low signals please contact Call Aid UK on 0115 940 0905 for technical assistance.

To exit the RSSI mode press the RSSI button once again.

Installing the 1142RX master panel

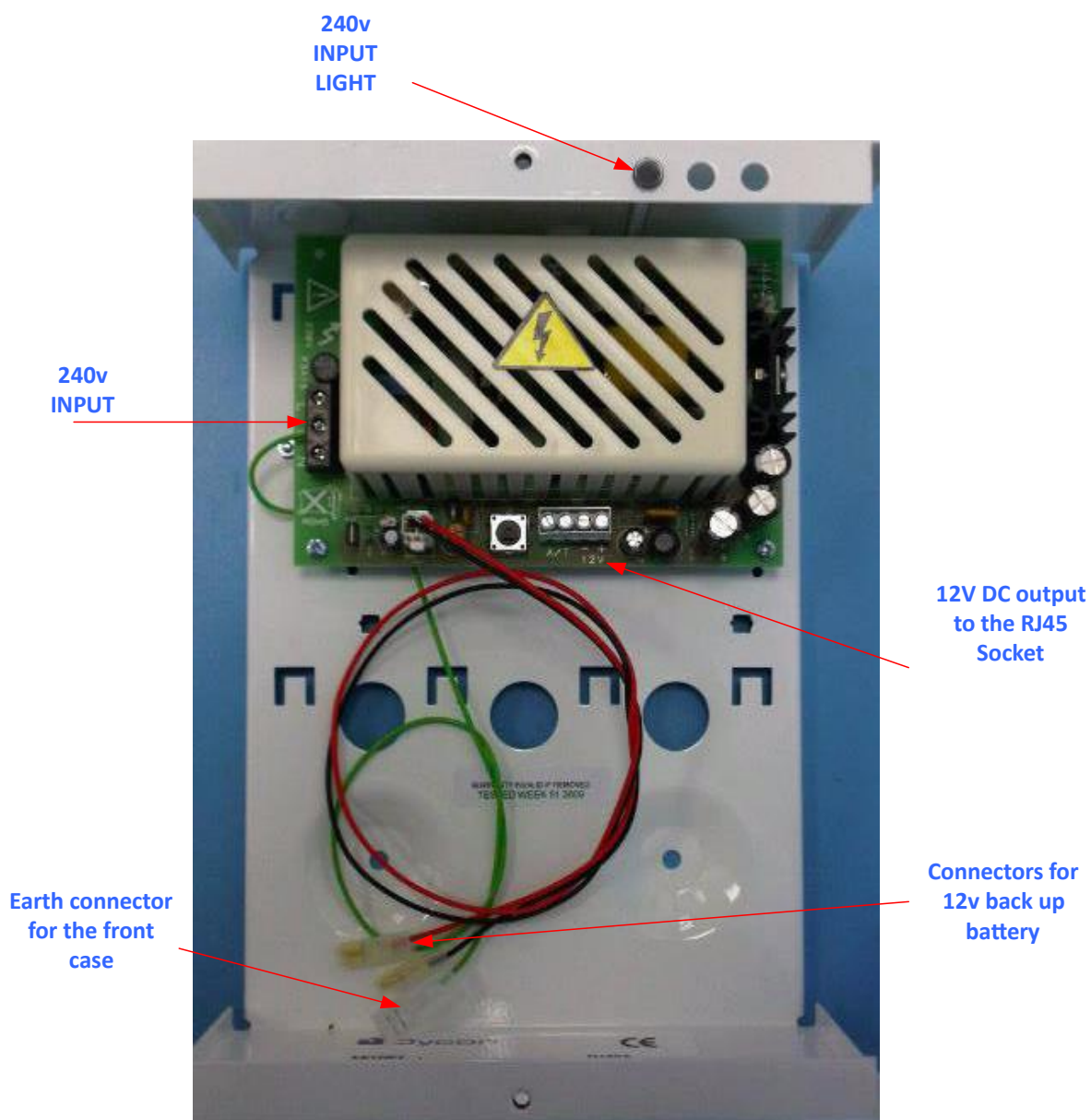
On the reverse of the 1142RX there are two keyholes that will allow the master unit to be hooked onto the stainless steel wall bracket. Use a spirit level to ensure that the bracket is level as it is not adjustable.

Before the master is screwed to the wall, test that ALL the panic button signals are reaching the 1142RX master in the position on the wall where it is to be used. It is better for the master to be at head height as the signal reception is better at this height.

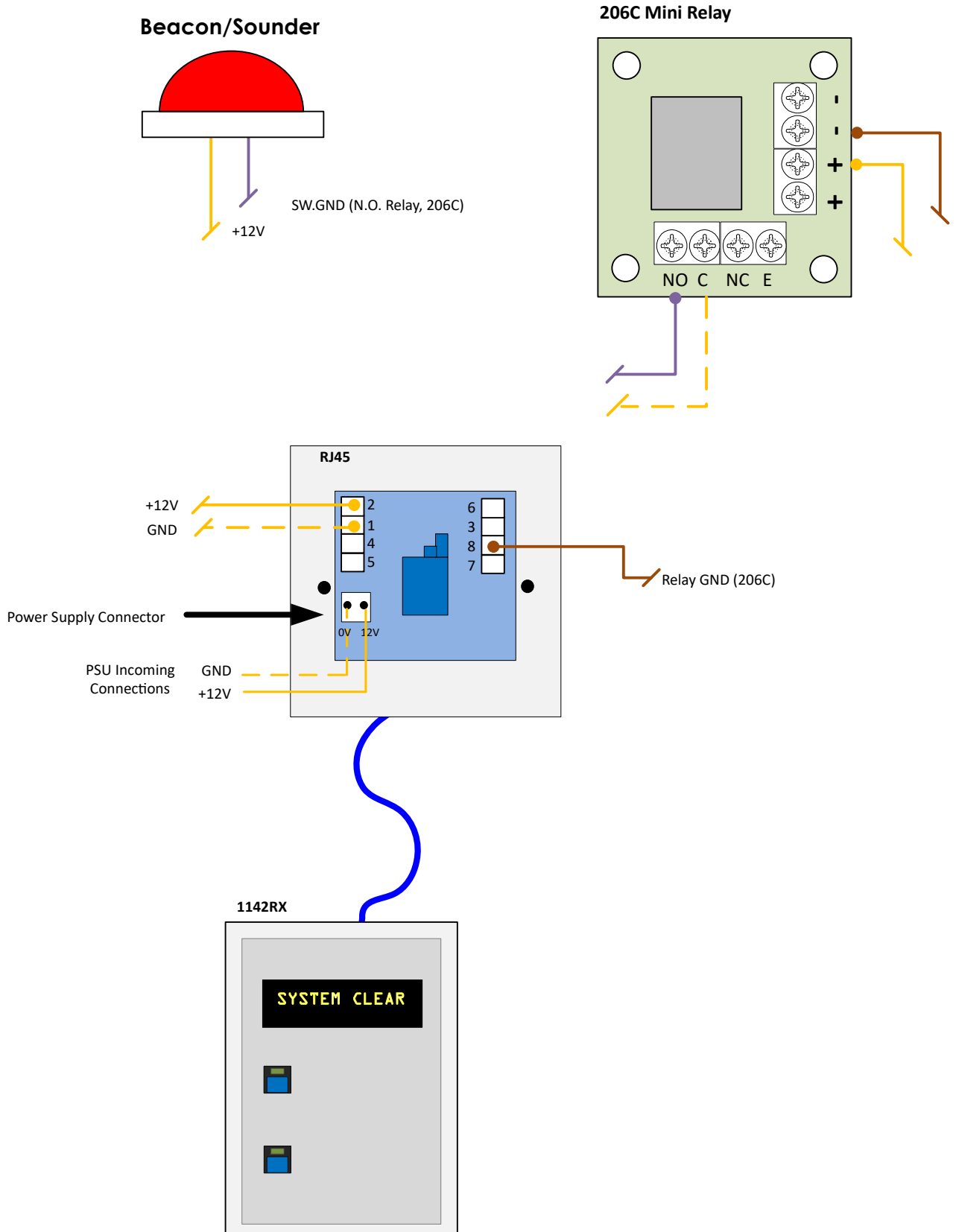
If you cannot setup the system due to low signals please contact Call Aid UK on 0115 940 0905 for technical assistance.

12V PSU with back up battery - Connections

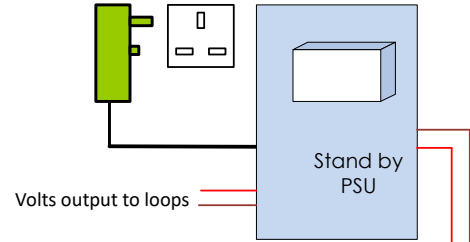
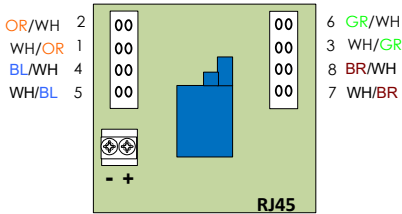
OPTIONAL - Standby power supply connections



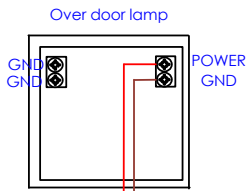
RJ45 with Mini Relay 206C



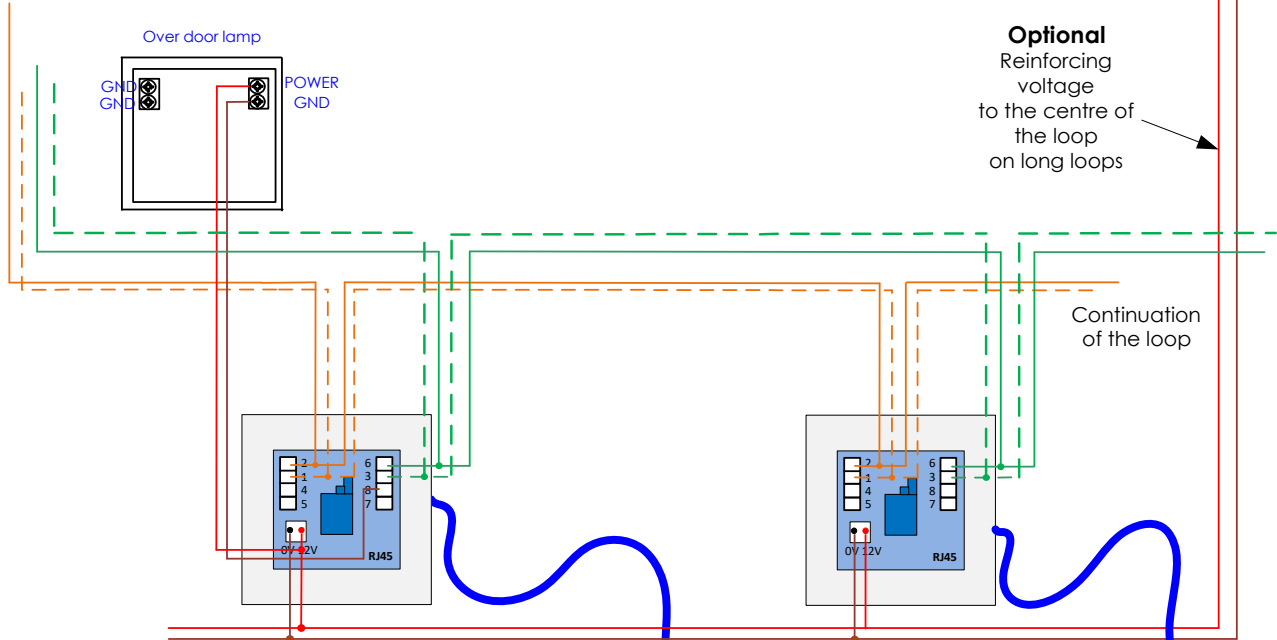
RJ45 General Loop Wiring Schematic



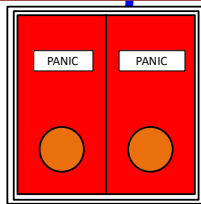
Continuation of the loop



Optional
Reinforcing voltage to the centre of the loop on long loops

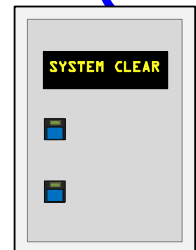


Please Double the loop in /loop out connections into the RJ45 socket



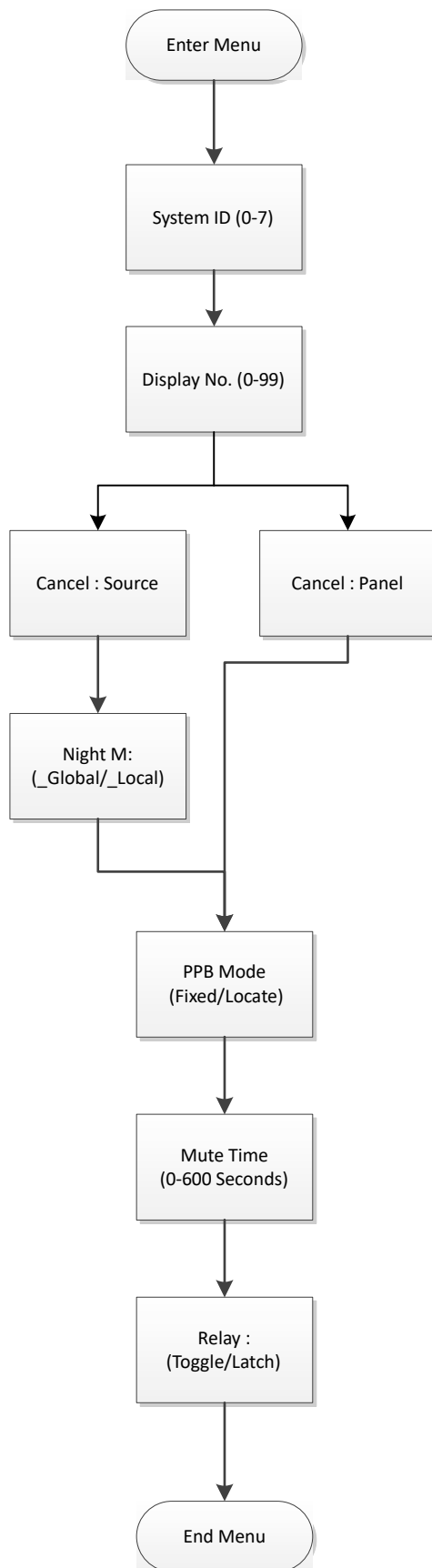
Under desk panic button

Please Double the loop in /loop out connections into the RJ45 socket



Display Panel 1142RX

1142RX Engineer's Menu – Schematic



1142RX Engineer's Menu - Overview

Setup Overview

- To operate the setup menu, the switches at the rear of the unit are used. This mode cannot be accessed when any alarm calls are active.
- To gain access to the menu, press both the 'UP' and 'DOWN' switches at the same time.
- In this mode, features that dictate the operation of the system can be changed.
- To advance through the menu levels, press the 'MUTE' button on the front of the unit. The various modes will be listed on the display.
- To change values inside the level, press the 'UP' or 'DOWN' buttons.
- If no buttons are pressed within 10 seconds of the last button press, the program will revert to SYSTEM CLEAR.

System ID

- The system ID option is used to isolate systems that are within close proximity of other 1142RX units or when they share a common RS485 loop. At manufacturing, the default setting is '01' unless previously requested before dispatch.

Display No (Display ID)

- This ID is used to give the display panel a unique ID. This is set by Call Aid UK at manufacture and should not be changed

Cancel via Source/Panel (Cancel Method)

- **Selecting Cancel:** Calls can be set to be cancelled at the unit from which the call/panic was sent (SOURCE). (Please refer to specific unit instruction)
- Calls can be set to be cancelled at the 1142RX (PANEL). This can be done by pressing the 'CANCEL' switch on the 1142RX.
- If Panel is selected, please skip the next step (Night Mode) as this does not apply to systems with cancel at the panel

Night M Global/Local (Night Mode control)

- Night Mode is used to adjust the sound level of the 1142RX system. This mode cuts down the length of beep tone and changes the frequency of the beeps.
- To activate this mode, press the 'NIGHT MODE' switch.
- While Night Mode is active, the red lamp inside the 'NIGHT MODE' switch will be illuminated.
- To turn off Night Mode, press the 'NIGHT MODE' switch. The lamp should now be turned off.
- Global mode will allow other display panels on the same system to also control the night and mute modes on other panels.
- Local mode will restrict control such as mute and night functions to the individual display panels. (Not affecting other display panels)

PPB Mode (PPB Display Method)

- If PPB units are used with this system, the 1142RX can display the ID of the PPB or the closest location where the PPB was triggered.
- To have the 1142RX display the PPB ID, select the 'Fixed' option.
- To have the 1142RX display the PPB location, select 'Locate.'

1142RX Engineer's Menu – Overview...continued

Mute Time (Mute delay)

- To disable the 'MUTE' switch, select 0 seconds.
- This timer is adjustable from 0-600 seconds in 60 second increments (11 settings).
- If a new call/panic is placed on the system after the mute button is set, the MUTE will be overridden.

Relay (Output Type)

- The 1142RX has an output that can be used with the CAUK 1132 Relay PCB. This output can be used to control external sounders or interface with third party systems.
- The latch option should be used with Beacon Sounders and third party systems equipment. This will hold the output ON until the call or panic is cancelled.
- The toggle option is used when Call Aid UK over door lamps are connected to the relay. The over door lamps will follow the pulse rate of the 1142RX internal sounder. The ODLs are silenced by cancelling the call or by pressing the mute button.

System Overview

The 1142RX Receiver

This system can be set to operate on either 'Cancel at Source' or 'Cancel at Panel', depending on your ordered preference.

If radio units are used with this system, the operating radio frequency is 868MHz.

The 1142 unit can be powered by a plug top or inline 12Vdc power supply, or by the recommended wall mounted 12Vdc power supply (A1871) with back up battery via a RJ45 socket.

If radio units are being used with this wired system, it is not advisable to place the 1142RX receiver close to metal filing cabinets or at a low level. The higher the 1142RX receiver is above the floor level the better the reception. Do not place the 1142RX next to computers or similar equipment that emit spurious radio signals.

The range of the Call Aid UK radio transmitters is approximately 80 metres indoors, depending on building structure and up to 200 metres outdoors.

The range should be tested using the 1142's RSSI (Radio Signal Strength Indicator) function at the proposed 1142 position in order to check that the radio panic buttons can transmit to the 1142RX receiver.

1142RX Incoming Alerts

When a call button is pressed the 1142RX display panel will respond by showing the call unit identity in the OLED display. An audible alert will be activated, which will vary depending on the alert type i.e. Call Assist or Panic.

If there is more than one panic alert on the system, the 1142RX display will scroll through the incoming calls.

If "System Clear" is not displayed the power supply to the 1142 unit should be checked.

Low Battery Warning

When a panic button is pressed and the battery is low, a low battery signal will be sent to the 1142RX master panel and the display will show "Low Battery" along with the panic button ID. The "Low Battery" message can only be removed by changing the battery in the panic button with the low battery and then sending a panic/call signal to the 1142RX master.

To Cancel/Reset Alerts

Cancel at Source:

Call and panic alerts can only be cancelled at the source of the call (i.e. at the radio call/panic unit that transmitted the call). Alerts are cancelled at the triggered panic button with a double button press & hold function for units with two buttons, or a single button press & hold function for units with one button.

Cancel at Panel:

Call and panic alerts can only be cancelled at the 1142RX master panel by pressing the 'cancel' button on the 1142RX.

