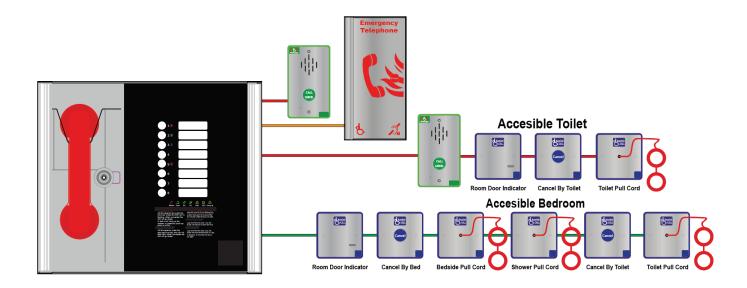


Beacon B1M2/4/8 Master Station



Installation and Commissioning Manual





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1. Introduction

1.1 What is an Emergency Voice Communication System?

An Emergency Voice Communication System, or EVCS, is a system that allows voice communication in either direction between a central control point and a number of other points throughout a building or building complex, particularly in a fire emergency situation. The control points, or outstations by which they are more commonly referred, generally comprise of a Type A outstation, a Type B outstation, or a Type C Combined Type outstation. "Assist Call" emergency assistance alarm systems can also be incorporated into the EVCS.

EVCS is generally required in the following situations:

- In any building or sports or similar venue where there are disabled people, or people who may have difficulty negotiating the evacuation route.
- In buildings with phased evacuation and/or firefighting lifts where it facilitates secure communications for building managers, fire wardens, and attending fire officers.
- At sports venues and similar complexes, where it will assist stewards in controlling the
 evacuation of the area in an emergency.

The Beacon Emergency Voice Communications System (EVCS) is designed to fully comply with BS5839 Part 9:2021 for use as a Fire Telephone system, Disabled Refuge Call system or as a combined system when both Fire Telephones and Disabled Refuge Points are required.

1.2 Suitability

Fire telephone systems are recommended for all public buildings and multi-story buildings over four floors by BS9999.

Disabled Refuge systems are required in buildings where the public or disabled staff gains access to any floor other than the ground floor using lifts. Refuge areas are provided at each storey exit from each protected stairway.

2. Product Overview

The Beacon EVCS comprises of a Master Station and one or more outstations.

Additionally the "Assist Call" emergency assistance alarm system can either be connected to the same line as a Type B outstation, or connected to a dedicated line. Neither the outstations nor the "Assist Call" emergency alarm system require a separate power supply unit as each line is powered from the Master Station. This has the additional benefit of each line being fully monitored and battery backed up.

The Beacon Master Station has been designed for radial star topology. In most cases this will reduce the cable requirements for all ring-based systems. The topology consists of spurs formed of 1 two core 1.5mm CSA cables (soft skin enhanced up to 500m per leg, MICC 200m per leg) to each outstation.

3. Important Safety Information

This Equipment must only be installed and maintained by a suitably skilled and competent person.

This Equipment is defined as Class 1 in EN60065 (Low Voltage Directive) and must be EARTHED.









CautionWarning

Shock Hazard-

Isolate Before Opening

TO REDUCE THE RISK OF FIRE OR ELECTRIC

Warning SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN

OR MOISTURE

Warning THIS UNIT MUST BE EARTHED Warning NO USER SERVICEABLE PARTS

Each Beacon Master Station requires a 3A spur, returning to a breaker clearly marked **"EVCS DO NOT TURN OFF".**



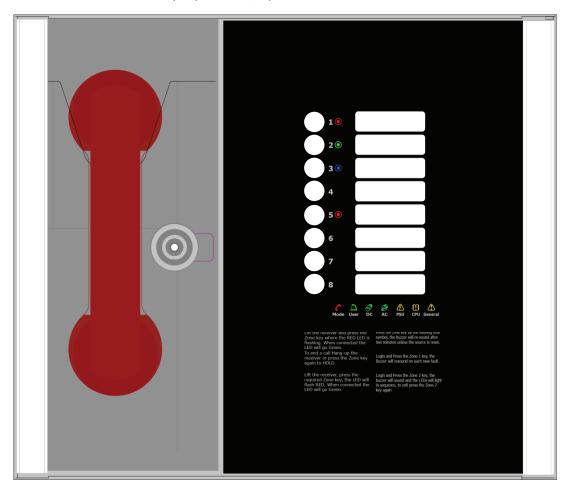
Anti-static handling guidelines

Make sure that electrostatic handling precautions are taken immediately before handling PCBs and other static sensitive components.

Before handling any static-sensitive items, operators should get rid of any electrostatic charge by touching a sound safety earth. Always handle PCBs by their sides and avoid touching any components.

4. Unpacking the UnitRemove the Beacon BM2/4/8 from its packing, and check the contents against the following list:

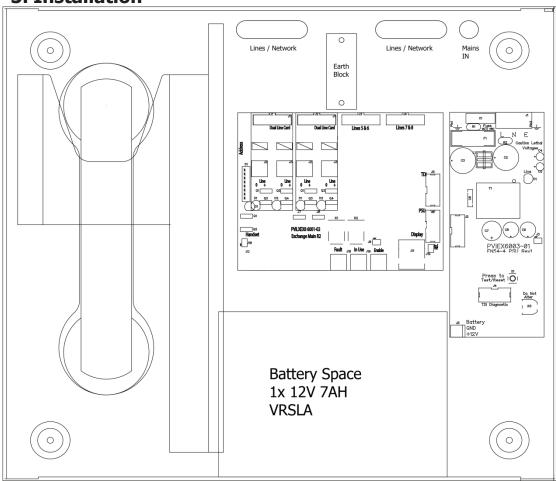
- Beacon BM2/4/8 Master Station
- Installation & maintenance manual (this document).
- User Guide & logbook.
- Accessory pack with the following contents:
 - o 1 number 2.5mm AF Hex Key.
 - 1 number door handle/key.
 - End of Line (EoL) Resistors, 2 per line card



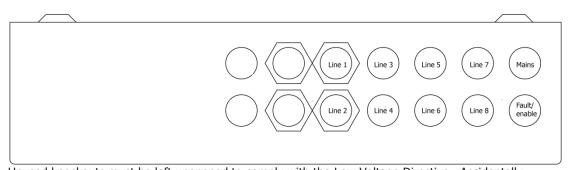
Use the 2.5mm AF Hex Key supplied to open the right-hand front cover. Verify the following items are present:

- Correct number of Line Card, depending on configuration. c/w 2-way line connectors.
- 1 number 3-way mains connector.
- 1 number 2-way Fault connector.
- 1 number 2-way In Use connector.
- 1 number 2-way Enable connector.
- 1 number Battery lead.

5. Installation



Prior to mounting the Beacon Master Station, it should be decided if the field wiring is to be run on the surface or to be concealed. There are 14 knockouts on the top and 2 slotted entries with a dedicated mains supply entry at the rear. If a knockout is removed by mistake, fill the hole with a good quality cable gland.



Unused knockouts must be left unopened to comply with the Low Voltage Directive. Accidentally knocked out holes should be blanked off.

The Beacon Master Station weighs 6Kg with batteries, so care should be taken to securely mount the Station on stud walling.

5.1 Connecting the Beacon Master Station

To comply with EMC (Electro Magnetic Compatibility) regulations and to reduce the risk of electrical interference in the system wiring, the use of fire-resistant screened cables is recommended throughout the installation.

All wiring should come into the enclosure via the knockouts provided and be fixed tidily to the relevant terminals.

Note that correct cable glanding is essential. Due regard should be paid to any system specifications which demand a certain cable type, providing it meets the appropriate national wiring regulations.

5.2 Planning the Wiring

All system wiring should be installed to meet the appropriate parts of BS5839 Part9:2021 and BS 7671 (Wiring Regulations). Other national standards of installation should be adhered to where applicable.



Do not test wiring using an insulation tester (Megger) with any equipment connected, as the 500 Volt test voltage will destroy these devices.

You must observe local wiring regulations. Do not run SELV and LV cables in the same enclosure without adequate insulation between them.

5.3 Cable and Wiring Guidance

5.3.1 Fire Telephone system

Any system using Type A outstations must use enhanced grade cabling throughout for all wiring, including the mains supply to the Beacon Master Station

5.3.2 Disabled Refuge EVC System

For buildings less than 30m in height, or any building with sprinklers fitted, standard grade fire resistant cable may be used to wire Type B outstation and the mains supply to the Master Controller; as long as the planned evacuation will be completed in 30 minutes.

If the building is over 30m in height without sprinklers, or where the evacuation will take place over multiple stages exceeding 30 minutes, then enhanced grade cables must be used.

5.3.3 Combined Systems

For systems containing Type A, Type B or Type C outstations, shared cable such as network cables must be enhanced grade.

Cabling to Type A or Type C outstations must be in enhanced grade fire resistant cabling. Individual spurs to Type B outstations can be wired in standard grade fire resistant cabling in accordance with the wiring guidelines already set out for disabled refuge systems.

5.3.4 "Assist Call" Emergency Assistance Alarm Systems

All installations must conform to Building Regulations Approved Document M. The "Assist Call" is wired using 2 core cable, and the "Assist Call" plates can be wired in any order.

5.4 Cabling methods

There are 3 cabling methods available:

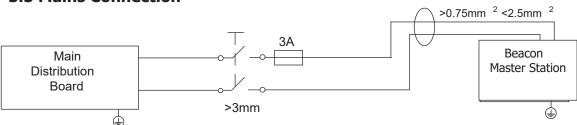
- Connection to a Type A or Type C outstation: use 2 core enhanced grade fire resistant cable when extending a firefighting telephone system.
- Connection to a Type B outstation: use 2 core standard grade fire resistant cable when extending a disabled refuge system.
- Connection to an "Assist Call" system on a dedicated line requires 2 core 1mm CSA or above PVC sheathed.

5.4.1 Beacon Master Station

The wiring for a Beacon Master Station is shown in the schematic below.

Cable Key 1 off 2 Core 1.5mm CSA Standard Rated Fire Cable* 1 off 2 Core 1mm CSA Standard PVC Minimum Accesible Toilet Room Door Indicator Cancel By Toilet Toilet Pull Cord Cancel By Toilet Cancel By Toilet

5.5 Mains Connection



Each Beacon Master/Repeater Station requires a 3A spur, returning to a breaker clearly marked **"EVCS DO NOT TURN OFF"**.

5.6 Battery Information

In the event of mains failure BS5839 Part 9:2021 requires battery backup for 24 hours standby and 3 hours operation thereafter.

A Beacon Master Station requires **one number** 12V 7AH vent regulated sealed lead acid battery. The battery is not supplied with the Beacon Master Station.

Safety Information:

Sealed Lead Acid batteries contain sulphuric acid which can cause burns if exposed to the skin. The low internal resistance of these batteries mean large currents will flow if they are accidentally short-circuited causing burns and a risk of fire. *Exercise caution when handling batteries.*



Power Up Procedure:

Always apply mains power before connecting batteries. When connecting batteries, always connect the Positive (Red +) terminal first.

Power Down Procedure

Disconnect the batteries before removing the mains power. When disconnecting batteries, always remove the Negative (Black –) terminal first.

5.7 Outstation Connections

The Beacon Master Station is equipped with at least one number Dual line card. One outstation per line output can be connected. If no outstation is connected to the line output, then an end of line $10k\Omega$ resistor should be fitted. The dipswitch located on the rear of the door mounted Display PCB is used for configuration see 6.1

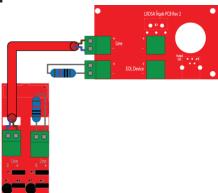
The following devices are available on the system:

- Type A (fixed phone)
- Type B (hands-free refuge point)
- Type C "Combi" (combined Type A and Type B)
- Jack point
- "Assist Call" emergency assistance alarm system

For Type A, Type B, and Type C outstations, the end-of-line $10k\Omega$ resistor should be removed from the accessory pack and connected to the end-of-line terminal in the outstation.

For Jack points and the "Assist Call" system, the end-of-line $10k\Omega$ resistor should also be removed from the accessory pack and connected to the last plate on the system.

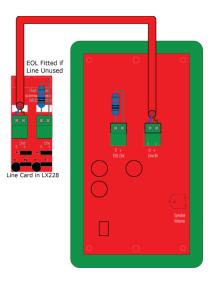
5.7.1 Type A outstation





Note: The Earth screen should be sleeved and connected to the terminal block in the controller, and the earth stud in the Type A outstation.

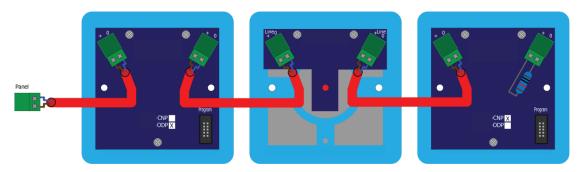
5.7.2 Type B outstation





Note: The Earth screen should be sleeved and connected to the terminal block in the controller, and the earth connection in the metal back box (if a plastic back-box is used cut the earth back and insulate at the outstation)

5.7.3 ACA Accessible Toilet Kit



The BAKIT comprises an Over door Indicator, a pull cord and a cancel plate and they can be wired in any order, the above is typically as installed, and runs Overdoor Plate, ceiling Pull and then the Cancel plate, the EOL resistor goes in the free terminals of the last plate.

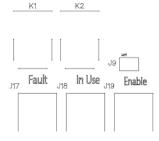
5.8 Auxiliary Connections

The Beacon Master Station has three auxiliary connections:

Fault is a normally closed volt free relay (30V DC 1A) which OPENS on any fault, including loss of power.

In Use is a normally open volt free relay (30V DC 1A) connection which closes when any outstation is operated, see Remote Signal Display section 7.7 switch settings for further information.

Enable is a normally CLOSED input and is required to operate the system, this is often connected to the fire alarm system. If Jumper



J9 is in place, then no connection is required at the terminals. This function only disables Type B outstations, with Type A outstations and "Assist Call" emergency assistance alarm systems continuing to operate. Calls from Type B outstations automatically "time out" after approximately 30 minutes. It is advised that this feature is not used as the system should always be available, not just during an evacuation. If the feature is used, then the mode LED illuminates yellow after 30 seconds to show that the system is disabled.

Note. If the system is disabled, the master station can still make outgoing calls.

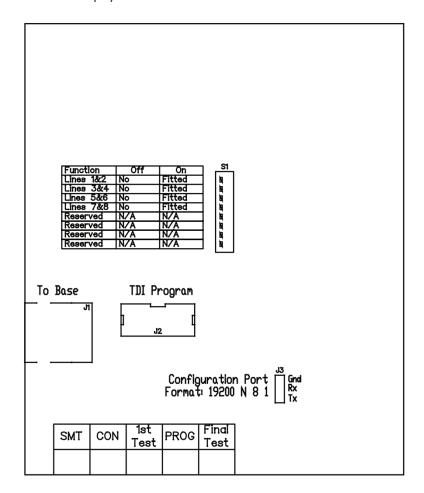
5.9 Powering up procedure

To power up the Beacon Master Station, carefully check all internal wiring before applying mains power to the Beacon Master Station. Once the Beacon Master Station is powered, the battery can be attached using the battery leads supplied. When attaching the battery, always attach the Positive (Red+) terminal first.

5.10 Powering down procedure

To power down the Beacon Master Station, first disconnect the battery. Always disconnect the Negative (Black -) terminal first. Once the battery leads have been disconnected, then remove mains power.

6. Set up procedureThe Beacon Master Station has various site configurations which are configured using the dipswitch located on the rear of the Display PCB.

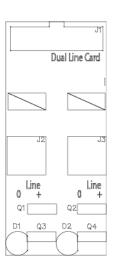


6.1 BM2/4/8 Master Station Display PCB Dipswitch Settings

1	2	3	4	5	6	7	8	
Line	Line	Line	Line	Reserved	Reserved	Reserved	Reserved	Remarks
1&2	3&4	5&6	7&8					
✓								Line card 1 fitted
✓	✓							Line card 1, 2 fitted
✓	✓	✓						Line card 1, 2, 3 fitted
✓	✓	✓	✓					Line card 1, 2, 3, 4 fitted

^{√ =} Dipswitch in ON position

x = Dipswitch in OFF position



6.2 Adding a Line Card

The Beacon Master Station is supplied with at least **one number** Line Card. There are 2 lines per Line Card.

Before adding a Line Card, ensure that the Beacon Master Station is not powered. If the Beacon Master Station is powered, then power down the Beacon Master Station (see 5.10). To fit the Line Card:

- Place Line Card in the next available space on the Exchange PCB and secure using the supplied screw.
- 2. Remove the line terminal and connect the field wiring.
- 3. Push the terminal into the correct position on the Line Card.
- 4. Set the dipswitch on the Display PCB (see 6.1) to enable Line Card monitoring.

Once the Line Card is securely fitted, power up the Beacon Master Station (see 5.9).

6.3 Removing a Line card

Before removing a Line Card, ensure that the Beacon Master Station is not powered. If the Beacon Master Station is powered, then power down the Beacon Master Station (see 5.10).

To remove the Line Card:

- 1. Remove all line terminals from the Line Card that is to be removed.
- 2. Remove the securing screw.
- 3. Remove the Line Card from Exchange PCB.
- 4. Set the dipswitch on the Display PCB (see 6.1) to disable Line Card monitoring.

Once the Line Card has been removed, the Beacon Master Station may be powered (see 5.9).

7. System Menus

7.1 Login Procedure

For access level 2 (User) the code is 1664, for access level 3 (Engineer) the code is 1812. Enter the relevant code using the numbered buttons 1-8, as each button is pressed the user LED will flash cyan/magenta faster until the required code is entered, at which point LEDs 1-3 will illuminate cyan for User mode and LEDs 1-5 will illuminate cyan for Engineer mode.

7.2 Fault Accept

Before accepting faults, the fault must be noted in the logbook, along with the time the fault was reported.

To accept the fault, enter either the access level 2 (code: 1664) or access level 3 (code: 1812) menu, then press zone button 1. The buzzer will silence, and the general fault LED will now go steady. Press zone button 8 to exit this menu and to return to the menu options. The buzzer will resound on each new fault.

7.3 Panel Indicator Test

To test the panel indicators, enter either the access level 2 (code: 1664) or access level 3 (code: 1812) menu, then press zone button 2.

All LEDs will illuminate in a predefined sequence, and the buzzer will sound.

Press zone button 8 to stop the panel indicator test and to return to the menu options.

7.4 Extended Fault Menu

Enter the access level 2 code (1664) or access level 3 (code: 1812) then press zone button 3.

Zone	Indicator Status	Description
	Blank	Line card configured as not fitted
1-4	Yellow Solid	Line card configured as fitted but not present
	Green Solid	Line card configured as fitted and present
7	Green Solid	Display Processor Healthy
/	Yellow Solid	Display Processor Fault
0	Green Solid	Exchange Processor Healthy
8	Yellow Solid	Exchange Processor Fault

7.7 Remote Signal Delay Timer

The in-use relay, function can be altered to provide a remote signal via an autodialler, BMS or similar. The delay is adjustable between 30 seconds and 3 minutes such that if a call from an outstation is not answered within the chosen time delay then the relay operates. This could be used to send a signal off site during periods when the master station is not attended.

If the call is answered during the delay period, the relay will not operate, and the timer will cease. The above function works identically with the Assist Call emergency assistance system.

Enter the access level 3 code (1812), then press button 4 to enter this mode. The magenta zone indicators from 1 to 8 will be illuminated depending on selection, pressing button 2 will give a 30 second delay, button 3 a one-minute delay and so on to button 7 which gives a three minute delay. When the required delay is selected the adjacent indicator will illuminate to confirm the delay period. Press button 8 to exit this mode.

Button	Delay Timer Options
1	No Delay
2	30 Secs
3	1 Min
4	1 min 30 secs
5	2 min
6	2 min 30 secs
7	3 min
8	Exit

7.8 In Use Relay Options

The in use relay has programmable functions which can work in tandem with the delay timer described in 7.7. These functions can provide a relay output as described in the table below:

These relay functions can be useful for providing an output of specific system operation of EVC, Assist Call or both. This relay can also be used to connect to the Remote Alarm panel or a remote sounder or beacon which can be configured to cancel operation when the master handset is picked up such that the sounder will not interfere with the conversation.

Enter the access level 3 code (1812), then press button 5 to enter this mode. The magenta zone indicators from 1 to 8 will be illuminated depending on selection. When the required selection has been made press button 8 to exit this mode.

Button	Relay Option
1	Not Used
2	EVCS & Assist Call
3	EVCS only
4	Assist Call Only
5	Relay activates on any call, Relay de-energises on master handset pickup
6	Relay operates when call not answered / acknowledged (EVCS and Assist Call)
7	NOT IN USE
8	Exit

8. Operation

All conversations are under the command of the Master Station.

8.1 Receiving a call

One of the eight zone LEDs and the mode LED will flash red to indicate an incoming call. The flash rate will identify the outstation type, with a Type A outstation having a faster flash rate than a Type B outstation.

Lift the Master handset receiver. The User LED will illuminate Red.

Press the corresponding zone button (indicated by the red flashing LED). This LED and the User LED will change to flashing green to show that this line is now connected, and a conversation can take place.

8.2 Making a call

To make a call, lift the Master handset receiver and the User LED will illuminate red.

Press the zone button for the required outstation. The corresponding zone LED will flash red. This flash rate will be slower than the flash rate for either an incoming Type A or Type B call.

When the outstation answers the call, the zone LED flashes green, the mode LED illuminates red and the user flashes green to indicate this line is now connected and a conversation can take place.

8.3 Ending a call

To end the call from the outstation, either replace the Type A receiver back on its hook or press the call/cancel button for a Type B outstation.

To end a conversation from the Beacon Master Station, replace the Master handset receiver back on its hook.

Note: This will not end the call, only the conversation. The outstation will revert back to requesting a call, and the zone LED will flash red to indicate this. The call MUST be ended at the outstation.

8.4 Putting a call on hold

To put a call on hold, press the zone button for the required outstation that is already connected. The zone LED will change from flashing green to flashing green/red. The hold tone will be heard in the handset.

To reconnect the call, press the zone button for the required outstation again. The zone LED will change from flashing green/red to flashing green to indicate the call is now connected again.

8.5 Conference Call

Depending upon the number of Line Cards fitted in the Beacon Master Station, up to five lines can be connected to the conference call at any one time. To receive a call, see 8.1. To make a call to an individual outstation, see 8.2. The Beacon Master Station controls which lines are involved in the conference, and only one conference group is allowed.

8.6 Acknowledging "Assist Call" alarms

When an "Assist Call" goes into alarm, the appropriate zone LED will flash blue, and a two-tone buzzer sounds to indicate that an "Assist Call" alarm has been operated.

To acknowledge the alarm, press the corresponding zone button, and the blue LED will illuminate continuously with an intermittent buzzer tone every 15 seconds. If after 2 minutes the "Assist Call" alarm has not been cancelled, the buzzer will resound and the LED will flash blue.

Within the WC cubicle the pull cord indicator will change from continuous indication to no indication. The cancel plate will alter from flashing to continuous and the buzzer will change from continuous to intermittent. Outside the cubicle the Over door plate indication will alter from flashing to continuous and the buzzer will change from continuous to intermittent. This change in indication and buzzers during the acknowledge phase indicates to the WC user that help is on the way.

8.7 Accepting Faults

Before accepting faults, the fault must be noted in the log book, along with the time the fault was reported.

To accept the fault, enter either the access level 2 (code: 1664) or access level 3 (code: 1812) menu, then press zone button 1. The buzzer will silence and the general fault LED will now go steady. Press zone button 8 to exit this menu and to return to the menu options. The buzzer will resound on each new fault.

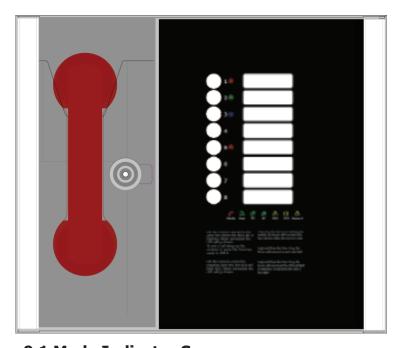
8.8 Panel Indicator Test

To test the panel indicators, enter either the access level 2 (code: 1664) or access level 3 (code: 1812) menu, then press zone button 2.

All LEDs will illuminate in a predefined sequence, and the buzzer will sound.

Press zone button 8 to stop the panel indicator test and to return to the menu options.

9. Indications and Controls



9.1 Mode Indicator Summary

JII Ploud Illuidator 5	aiiiiiai y
Mode	Description
Green solid	Normal state
Red solid	Outstation off hook
Blue solid	Assist call active
Yellow Solid	Refuge (type B) points disabled
Flashing Red/Blue	Incoming call/ Assist Call alarm at same time

9.2 Power supply and CPU indicator Summary

AC	DC	PSU	General	CPU	Description	
✓					Mains OK	
Х		Flash	Flash		Mains failure	
✓	✓				Battery OK	
✓	Х	Flash	Flash		Battery open circuit	
✓	Χ	✓	Flash		Battery short circuit	
✓	Flash	✓	Flash		Battery high impedance	
✓		✓	Flash	✓	PSU processor fail	
✓			Flash	✓	Display or Exchange Processor Fault or Display-Exchange comms flt	
✓					Display or Exchange Processor Fault or Display	
✓	Flash		Flash		Remote Battery fault	
Flash			Flash		Remote Mains fault	

√ = LED illuminated

x = LED off

Flash= LED Flashing

Note: When faults are accepted the general LED illuminates solid.

9.3 User Indicator Summary

Red	Master handset off hook
Flashing Yellow	Master handset open circuit
Cyan	User logged in
Magenta	Engineer logged in
Flashing green	Call connected
Flashing Red/Green	Call on hold
Solid Yellow	Master handset short circuit

9.4 Zone indicator summary

Zone Indicator Status	User Indicator Status	Buzzer Status	Description	
Slow flash red		Off	Outgoing call	
Fast flash red		Ringing	Incoming call from type A outstation	
Normal flash red		Ringing	Incoming call from type B outstation	
Normal flash green	Normal flash green	Off	Call connected to local master handset	
Normal flash green/red	Normal flash green/red	Off	Call on hold	
Solid yellow		On	Line Short circuited	
Slow flash yellow		On	Line card missing	
Normal flash yellow		On	Line Open circuit or EOL missing	
Fast flash yellow		On	Line Earth fault	
Solid cyan	Solid cyan	Off	Access level 2	
Solid magenta	Solid magenta	Off	Access level 3	
Normal flash blue		2 Tone Alarm	Incoming Assist Call alarm	
Solid blue		Intermittent double Beep	Assist call acknowledged	

10. Commissioning procedure

The commissioning should be carried out by a competent person who has a basic knowledge and understanding of the design and installation sections of BS5839 part 9:2021, and has access to the specification of the project.

The 500v insulation tests should have been carried out by the installer and the results made available to the commissioning engineer.

All cables should be correctly labelled.

Test field wiring and check for end-of-line $10 \text{K}\Omega$ resistor. Check cables are clear from any short or open circuits.

Connect cables into Line Cards.

Configure relevant dipswitches for the number of Line Cards fitted.

Power up the Beacon Master Station using mains only, fed from a 3A fuse fitted in an unswitched fused spur. The AC power indicator will be illuminated, and the DC power indicator is extinguished. The PSU fault and General fault indicators will be illuminated. There should be no line fault indicators illuminated.

If there are no line faults present, the battery may be connected. The DC power indicator will be illuminated, and the PSU fault and General fault indicators are extinguished when battery is connected. If there are any line fault indicators illuminated, then the field wiring should be checked prior to the battery being connected.

Lift the master handset receiver and listen for a cadence tone.

The line identities can be confirmed to prove the line identity. A "Line identify" feature has been included. Select line identify mode and visit each outstation and listen for the corresponding number of rings. This should correspond with the line number, i.e. 2 rings would be line 2.

The outstations may be tested now. For this use, the one man walk test feature has been included which allows a single engineer to visit each outstation and test that each outstation is connected to the Master Station. An intelligibility test will need to be performed when the system is complete and the building has normal background noise levels. The intelligibility test requires two personnel.

Where Assist Call is fitted, all pull cords in each circuit should be tested, acknowledged at the panel, cancelled at the call location. Ensure all controls and indicators operate correctly.

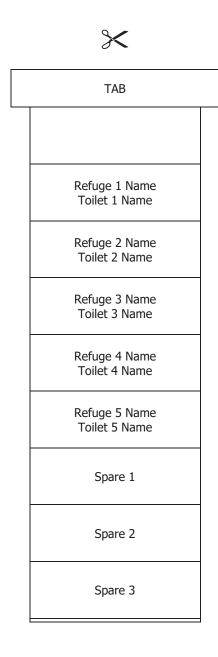
11. Maintenance

It is a requirement of BS 5839-9:2021 that a maintenance agreement be in place for the EVCS. The maintenance schedule should be as follows:

Frequency	Test
Weekly	Test a different outstation on the system each week and make a call to the control. Repeat each week until all outstations and master stations are tested. Record these results in the site log.
Biannually	Engineer call to check system operation, intelligibility, field strength of attached AFILS equipment and check battery health. Record results and any variations into the site Log Book
Yearly	Engineer call to check system operation perform 100% outstation and master station operation, field strength of attached AFILS equipment and check battery health. Record results and any variations into the site Log Book
5 Yearly	In addition to Yearly tests replace all batteries and record in Log Book.

12. Outstation zone templateThere is space to the right of each outstation zone indicator to name the location of the outstation. At the rear of the display door there is a slot located in the centre above the display PCB; the outstation zone template can be inserted here.

The template is in "Word" format and can be down loaded at www.espuk.com. This can be completed, printed out and cut to size as shown below.



Notes	

13. Technical Specification

Product Code

Power Supply and Charger

AC Input 230Vac+- 10% 50/60Hz

Internal power supply 12Vdc nominal

Supply and battery Monitored open, Short, Fuses Protection Deep discharge, Short, Thermals

Temperature compensation Yes
Battery information Space for Up to 1x

Battery information Space for Up to 1x 12V 7AH VRSLA
Mains fuse 1A HRC(T)
Battery fuse Self Resetting PTC

Battery fuse Self Resetting
Max charge current 500mA

Inputs

Number of lines Between 2 and 8 Remote enable Short to use End of line monitoring $10K\Omega$ 0.6watt resistor

Relay outputs

Number and type

Controls

Number and type

Indication

Number and type

2: Fault and In use, volt free 30Vdc 1A

8 push button zone keys

8x RGB Line indicators 3x PSU Status Indicators 1 x CPU Fault Indicators 1x General Fault Indicator 1x RGB Mode Indicator 1x User Status Indicator

Enclosure Details

Back box finish RAL 7035 Grey Dimensions 350 x 300 x 95

Entries 14 knockouts top, 2x rear slots

Flush Cutout 352 x 302 x 85 deep



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