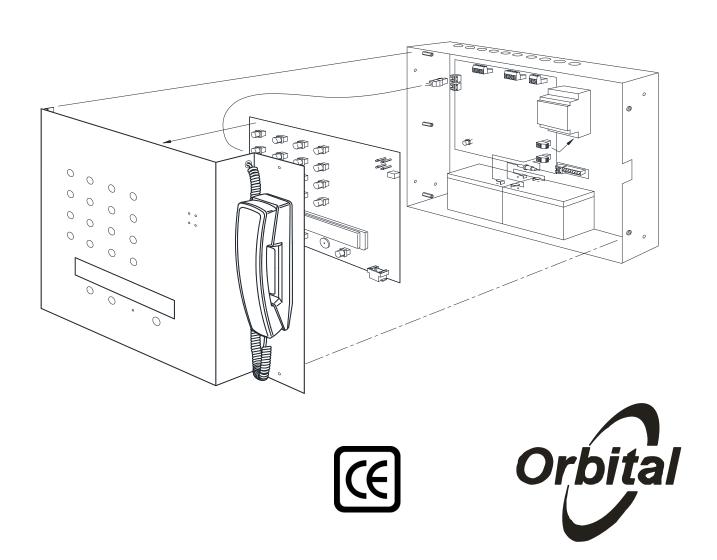
Loop Wired - Refuge Alarm

ORB-L-RS4-OLED
ORB-L-RS8-OLED / ORB-L-RS16-OLED
Disabled Refuge Emergency Voice Communication System



Safety Information



Observe all safety information on the product labels.

ESD Precautions

This product contains static-sensitive devices. Observe ESD precautions when working on the equipment with the cover / door removed.







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1. Introduction

This commissioning manual provides general guidance for the operation, configuration, commissioning, maintenance, and fault finding of the ORB-L-RS4 (RS8) (RS16) -OLED. The disabled refuge system has been manufactured to comply with BS5839 Pt9. Disabled Toilet Alarm has been manufactured to comply with BS8300.

Emergency voice communication (EVC) systems allow fire fighters and others to communicate with one another during emergency situations in and around buildings and at sports and similar venues. Emergency voice communication systems are used in connection with life safety and need, therefore, to be subject to high standards of design, manufacture, installation and servicing, similar to those covering fire detection and alarm systems and voice alarm systems.

1.1 Terms and definitions:

Competent person

Authorised person with the necessary training and experience, and with access to the requisite tools, equipment and information, and capable of carrying out a defined task.

Disabled refuge system

A disabled refuge system enables communication between strategic points throughout the building or site and the central control point(s). EVC systems are generally needed for disabled people who may have difficulty negotiating the evacuation route. The need for EVC in any specific building or complex will normally be determined by the appropriate regulation and/or a fire risk assessment carried out by the owner, landlord, occupier(s), employer(s) or other competent person, as appropriate.

Fire telephone system

Commonly-used with fire fighters to form an emergency voice communication system that includes telephone handsets (Type A) at outstations and wired in enhanced fire rated cable.

Refuge area

Area that is enclosed with fire-resisting construction (other than any part that is an external wall of a building) and served directly by a safe route to a storey exit, evacuation lift or final exit, thus constituting a temporarily safe space for disabled people to await assistance for their evacuation

2. Installation: (refer to Dwg. C51297/A)

Install central enclosure, **with cable entry gland at top**, at a height of approx. 1.5 metres above floor height. Ensure fixings can support a load of 20 Kg.

The field cabling described below **must** be installed via top entry to the enclosure.

The system batteries will sit on the lower edge of the enclosure, and the entire space below the main PCB assembly must be kept clear to accommodate these items.

2.1 Connect Field Cabling

A - Connect 5A (lighting rated) A.C. Mains supply (220 - 240V) to appropriate (L)ive, (N)eutral and (E) earth terminals on the modular PSU unit DSP60, located on DIN Rail fixings at the right of the main enclosure (Max system load is 40 Watts).

N.B. Earth terminal must be connected to building earth.

B1 – Connect 4 core (+screen) enhanced fire rated cable **out** to first remote loop location.

Observe colour coding on PCB ident for cable cores:

GY (Grey) : COM (0V common reference)

BN (Brown) : PWR (+ 24VDC)

BK (Black) : LIN (loop cable audio line)
BU (Blue) : DAT (loop cable data line)

SCN : Cable screen (connected to system earth and COM internally)

This cable is then connected, in a 'daisy chain' configuration, sequentially to all remote node locations, and terminate to the appropriately identified terminals on the PCB sub-assembly CS961 located in the back box at each remote location. Continue to observe colour coding as listed above.

B2 - Connect loop cable returns from the last remote node location to these terminals. Observe the same polarities as the B1 terminations listed above.

The following connections are optional, and are fitted only when the system specification requires these functions

C – Volt free 'Fault Out' changeover contacts, for remote fault reporting. (Fault relay is normally energised).

D – Volt free changeover contact – changes state with any call on the system. Use if remote call indication is required.

2. Installation Cont...

E – Short these terminals with a volt free closing contact (rated 50mA or higher) to enable the system 'Anti Tamper' feature.

(The 'Anti Tamper' feature enables the system to automatically disable incoming calls, whilst retaining system monitoring of the remote cabling and outstations. The system is returned to full operation with this contact opened).

2.2 Switch F

The setup switch is used for commissioning the system.

2.3 Connector J

The Cat5 (RJ45) socket is only used for the master control panel. These are intended to be connected via standard (non fire rated) UTP Cat 5 cable, to the main control panel.

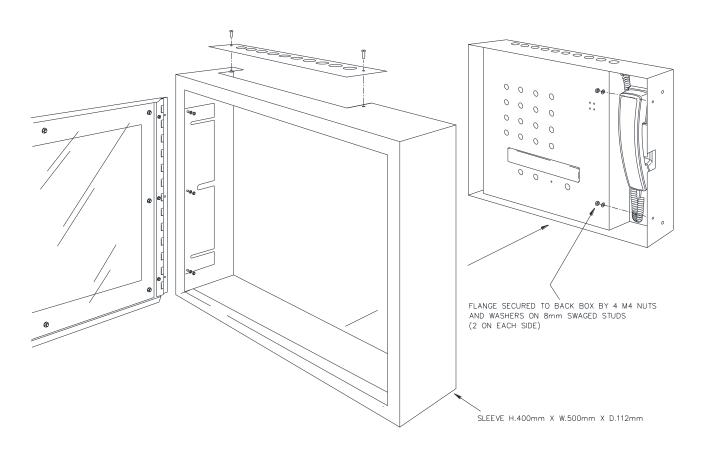
2.4 Connector K

The Cat5 (RJ45) socket is only used where a remote control panel (repeater) is fitted. These are intended to be connected via standard (non fire rated) UTP Cat 5 cable, to a cable junction box adjacent (within the same fire zone) to the main control panel.

From that location, the control functions are serialised, and forwarded to the remote control panel location via a four pair (+screen) enhanced fire rated cable.

2 Installation Cont... 2.5 Flush mounting bezel assembly PLANGE SCURED TO BACK BOX BY 4 M4 NUTS AND WASHERS ON 8mm SWACED STUDS (2 ON EACH SIDE) FLANCE H-410mm X W.510mm X D. 1.5mm

2.6 Surface mounting sleeve assembly



3.2 Batteries



Fit battery loom as indicated on this drawing.

CHECK RED LEAD IS CONNECTED TO THE RED (+) BATTERY TERMINAL. CONNECTING THE BATTERY LEAD WITH REVERSE POLARITY WILL DAMAGE THE EQUIPMENT.



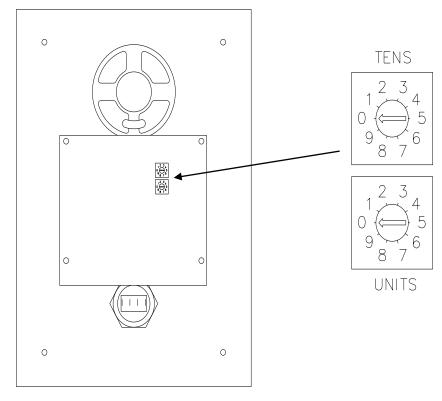


3.1 Remote Outstation Addressing

Remote outstation addressing: CS965. Each outstation requires an address which relates to the switch position on the master control panel.







The remote outstation address is SW1 Tens and SW2 Units

Examples

Switch No.	Switch Set	Address
SW2 (Tens)	0	
SW1 (Units)	1	(Unit 1)
SW2 (Tens)	0	
SW1 (Units)	7	(Unit 7)
SW2 (Tens)	1	
SW1 (Units)	5	(Unit 15)

3.3 Loop Cable Testing



Remote outstation loop wiring tests:

The following measurements are required before applying A.C power to the system:

Ensure that B1 and B2 are disconnected from the CS911 PCB. With a DC meter on '200' ohms range, the following measurements are required to be '6' ohms or less <.

COM (0V common reference): Loop out (B1) to Loop Return (B2). < 6 Ohms Cable screen Loop out (B1) to Loop Return (B2). < 6 Ohms

3.4 Apply A.C. Power to the system

Check before power up that the master control panel RJ45 connector is plugged into connector J.

Disconnect the return of the loop. (B2)

Plug the two way cable loom terminal to the 'Batt. +/-' terminals, located at the lower right edge of the main control PCB type CS911. (N.B. note that the system will not power up, until A.C. power is applied).

On power up the system will display all faults. Pressing the Lamp Test / Silence Fault button will mute the fault sounder. All control panel zone switches will illuminate in time with the fault indicators.





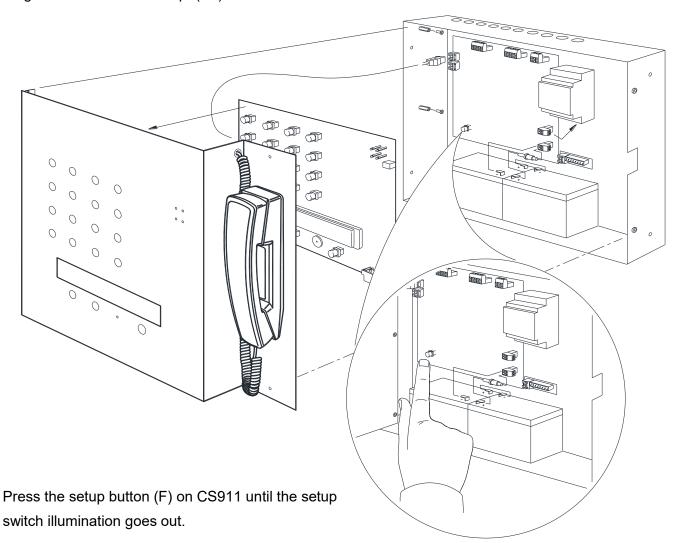
3.5 Setup

Press and hold the setup button (F) on CS911 until the setup switch illuminates. This can take up to '10' seconds. The front control panel will sound three times to signify that the system is in a setup mode.

In this mode the system will send out addresses for all sixteen outstations. With a response from an outstation a solid illumination will appear on the front control panel. Once all outstations are correctly displaying on the control panel front the system unit set is ready.



Plug in the return of the loop. (B2)



The front control panel will sound twice to signify that the system has come out of the setup mode.

3.6 Setup LCD

Press and hold the setup button (F) on CS911 until the setup switch illuminates. This can take up to '10' seconds. The front control panel will sound three times to signify that the system is in a setup mode.

The LCD screen will change to SETUP ACTIVE TEXT EDIT as below. The high-lighting * stars * indicate the menu selection. With the right and Left buttons a selection can be made for zone text edit for Disabled Refuge or Toilet Alarm. Pressing the enter button selects the desired option.



SETUP ACTIVE TEXT EDIT [*DISABLED REFUGE*] [TOILET ALARM]







DISABLED REFUGE selected



DISABLED REFUGE TEXT EDIT ZONE [*01*] [?] [?]????????][?????]







Pressing the right or left buttons allows the disabled refuge zone number to change to the desired text location to edit. As the system is in setup the responding or active remote outstations will be displaying on the 1-16 zone buttons above the LCD screen. These same zone numbers refer to the text locations required for each zone.

Pressing the enter button allows text editing of disabled refuge zone 01.

For this example we will want to enter '15TH FLOOR SOUTH' as the zone description.

3.6 Setup LCD

DISABLED REFUGE ZONE [01] selected













The first zone text is selected [* ? *] and indicated by the highlighting stars.

Pressing the left or right button allows the first TEXT to be changed. This will be displayed as the first part of the description location. So in our example '1' is required '15 TH FLOOR SOUTH'

First TEXT selections with right button are as below:

3.6 Setup LCD

[1] selected



DISABLED REFUGE TEXT EDIT ZONE [01] [1] [*?*] [????????] [?????]



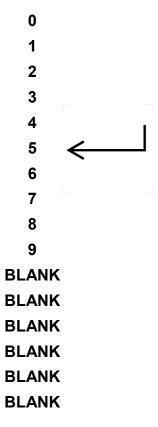




The second zone text is selected [*? *] and indicated by the highlighting stars.

Pressing the left or right button allows the second TEXT to be changed. This will be displayed as the second part of the description location. So in our example '5' is required '15 TH FLOOR SOUTH'

Second TEXT selections with right button are as below:



3.6 Setup LCD

[5] selected









The third zone text is selected [* ???????? *] and indicated by the highlighting stars.

Pressing the left or right button allows the third TEXT to be changed. This will be displayed as the third part of the description location. So in our example 'TH FLOOR' is required '15 **TH FLOOR** SOUTH'

Third TEXT selections with right button are as below:

LOBBY ST FLOOR **ND FLOOR RD FLOOR** TH FLOOR **LWR GND GROUND BASEMENT MEZZANINE LEVEL** CORE **EXT STAIR LEVEL CORE FLR CORE STAIR BLANK**

3.6 Setup LCD





DISABLED REFUGE TEXT EDIT ZONE [01] [1] [5] [TH FLOOR] [*?????*]



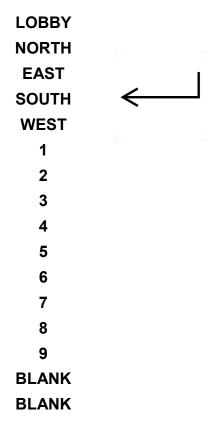




The forth zone text is selected [* ????? *] and indicated by the highlighting stars.

Pressing the left or right button allows the forth TEXT to be changed. This will be displayed as the forth part of the description location. So in our example 'SOUTH' is required '15 TH FLOOR **SOUTH**'

Forth TEXT selections with right button are as below:



3.6 Setup LCD

[SOUTH] selected













The four text selections have created DISABLED REFUGE ZONE 01 : 15TH FLOOR SOUTH as a location description.

The highlighting stars return to the zone number selection [* 01 *]

To edit the next disabled refuge zones text use the left and right buttons to scroll to the next desired number.

To exit the text edit mode exit setup by;

Press the setup button (F) on CS911 until the setup switch illumination goes out. The front control panel will sound twice to signify that the system has come out of the setup mode.

Please note the text edit will not exit until the current zone has been completed and has returned to the zone number selection.

3.7 Setup Toilet Alarm TAB and TAI units.

The TAB4 or TAB8 Toilet alarm input card provides radial spur connections for the Hark toilet alarm kits. In most cases the toilet alarm kit is wired to a local refuge point. However there are times where the toilet alarm '2' core spur from the Overdoor/PSU unit is wired directly back to the master control panel. The TAI4 or TAI8 can be positioned on the disabled refuge loop or radial cable positions.

In the central instance you would fit either a TAB4 (4 way) or a TAB8 (8 way) radial input card. This card fits directly onto the main control board in the rear of the control panel. This will fit onto either a CS1007 or CS911 card. Pillars are already fitted to these boards ready to accept the TAB card.

Before fitting the card remove ALL power to the system. Please take static precautions when handling any of the cards to avoid giving static damage to cards.

The TAB card is supplied with a RJ45 connection lead. This plugs directly into the rear main control board. CS1007 (J11) or CS911 (J9). Once the lead is connected between the two cards secure the TAB card to the pillars with the 4 off M3 x 6mm screws.

Now that the card is fitted you will need to change L2 on the main control rear board to the B position. As default the link is fitted in the A position.

The TAB cards are supplied already programmed and the BCD switch is already set to address 1 to activate the outputs correctly for toilet zones 1-8.

Different addresses can be selected depending on what zone number the toilet alarm in required to illuminate on alarm.

TAI8 Address	Toilet Alarm zones
1	1-8
2	Not Used
3	9-16
4	Not Used

The cabling from the toilet alarm kits can be wired into the appropriate input terminals marked 1 to 4 (TAB4) or into 1 to 8 (TAB8). **These connections ARE polarity conscious (+ & -).**

Once all of the above is carried out the power can be re-instated and the batteries.

The system will have to be run through the standard set up procedure.

Press and hold the setup button (F) on CS911 until the setup switch illuminates. This can take up to '10' seconds. The front control panel will sound three times to signify that the system is in a setup mode.

In this mode the system will send out addresses for the TAI units. Each TAI unit has two RED led's that will flash from data IN to data OUT approximately every 6 seconds. This signifies that the TAI unit is logged onto the system. Whilst in setup mode check that all disabled refuge units are still responding on the front panel with solid zone indications.

Once all TAI units and outstations are correctly displaying exit setup. By pressing button (F) on CS911

3.8 Setup LCD Toilet Alarm

To text edit the toilet alarm zone text the same process is required as the bled refuge before.

Press and hold the setup button (F) on CS911 until the setup switch illuminates. This can take up to '10' seconds. The front control panel will sound three times to signify that the system is in a setup mode.

The LCD screen will change to SETUP ACTIVE TEXT EDIT as below. The high-lighting * stars * indicate the menu selection. With the right and Left buttons a selection can be made for zone text edit for Disabled Refuge or Toilet Alarm. Pressing the enter button selects the desired option.



SETUP ACTIVE TEXT EDIT [DISABLED REFUGE] [*TOILET ALARM*]







TOILET ALARM selected ←

TOILET ALARM TEXT EDIT ZONE [*01*] [?] [?] [?????????] [?????]



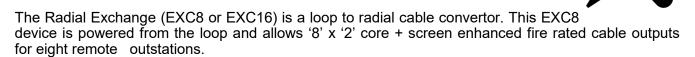


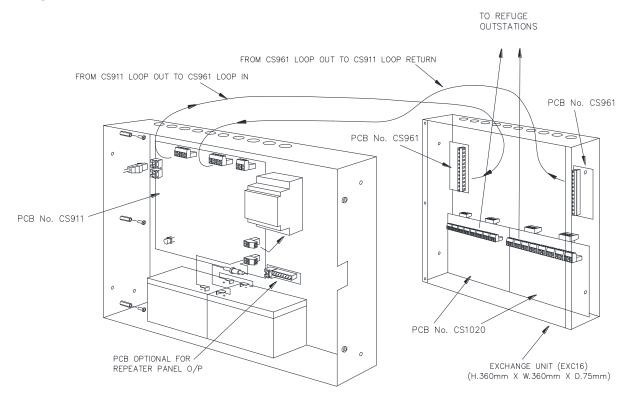


Pressing the right or left buttons allows the toilet alarm zone number to change to the desired text location to edit. As the system is in setup the responding or active remote outstations will be displaying on the 1-16 zone buttons above the LCD screen. These same zone numbers refer to the text locations required for each zone for each toilet that is wired to its local refuge point.

The same process as the disabled refuge will allow different zone location text to be entered for the toilet alarm zone.

3.9 Radial Exchange Setup (ORB-L-RS16-OLED)





The EXC8 exchange PCB CS1020 has a set address on the loop. The output numbers will depend upon the address SW1 switch as below:

EXC8 Address (SW1)	Disabled Refuge Outstation Address
ADD 1	1-8
2	5-12
3	9-16
4	13-20

The disabled refuge outstation address must match the EXC8 output number. i.e. EXC8 (ADD 1) - output 1 to remote outstation set to address 01.

Ensure the +, - and SCN connection are observed at both ends of the cable. The red led's (Data In / Data Out) on the CS1020 cards will flash momentarily when the unit has been logged.

If units are wired into incorrect outputs then they will appear logged onto the system. However when operated they will not connect and intercom will not be established. A high level data noise will be heard from the outstation.

If the main panel is in setup (3.5 Setup) any unused outputs will automatically go into fault after five scans. Once in fault the CS1020 SW2 switch must be pressed to reset the latched outputs. If an output is in fault the address data is isolated from the corresponding radial output and will not function.

3.10 System Test (refer to Dwg. C51297/A)



Once the installation and commissioning procedures are complete, test for correct system operation, and fault reporting functions. Test all locations for correct call in / call out functions, by following the user manual instructions listed on page 24 Section 4.

Remove primary power, to check correct operation of battery support supply. Central control will report a fault condition. The fault sounder will be activated on the main control panel, and the fault LED's will be illuminated with a slow flash pattern.

The fault out relay will be de-energised.

Press the 'silence fault / lamp test' switch on the control panel momentarily, to silence the fault sounder to an intermittent state. Open the main enclosure to confirm display of the 'mains fail' and 'charge fail' fault LED's located near the bottom edge of the main PCB ref. CS911. Reconnect primary power. To reset the fault press and hold setup button (F) until the fault clears from CS911.

Where utilised, check the function of the anti-tamper feature by applying a volt free closed contact (or temporary wire link) across the Anti-tamper terminals. Under this condition, any call made from a remote hands free outstation will be automatically cancelled by the central controller. The system will remain inactive from remote calling for c.10 seconds, to minimise nuisance recalling.

An open circuit at the anti-tamper terminals will allow normal system operation.

Note that making a call out from the master is not effected by the anti-tamper status.

Note that use of the anti-tamper facility is not recommended where telephone type remote outstations are used.

If a remote telephone is maliciously left off hook, the anti tamper circuitry will continue to attempt to clear the call until the handset is replaced. This will disable the remote fault monitoring system, until such time as the system is activated.

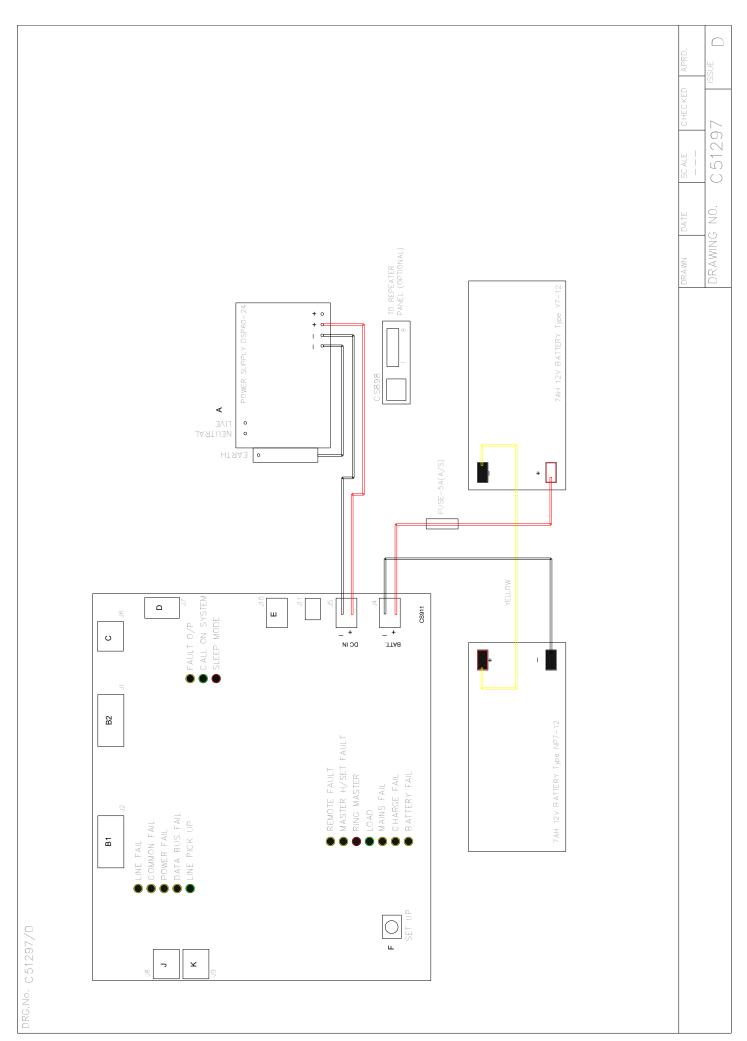
3.11 Fault Indications (refer to Dwg. C51297/A)

The LED function references on Dwg. C51297/A, and on PCB CS911, identify the function of all fault indications within the central enclosure. Note that any fault condition will cause the front panel fault Light Emitting Diodes (LED's) to indicate with a slow flashing pattern, and will activate the audible fault sounder as a continuous tone.

Pressing the 'Lamp Test / Silence Fault' switch will change the sounder function to intermittent. (A short 'reminder' bleep approx every 90 seconds). Generation of a second fault condition will reactivate the fault sounder to a continuous tone.

The following table lists the various fault LED's, and describes the action to be taken to help identify specific faults.

Fault LED Description	Nature of Fault	Action required to assist fault location	Action required to clear fault state, after correction
1 – 'Common Fail'	Loop common cable open circuit	Tackless vidian as an 2.2	Press and hold 'Setup Switch'
2 – 'Power Fail'	Loop Power cable open circuit	Test loop wiring as per 3.3	switch F , to reset loop monitors.
3 – 'Line Fail'	Loop Lin(e) cable open circuit	Test loop wiring as per 3.3	Press and hold 'Setup Switch' switch F , to reset loop monitors.
4 – 'Master H.SET Fault'	Master Handset short circuit or disconnected	Check master handset connections. Check CAT 5 connection to front panel	-
5 – Remote Fault	Failure of one (or more) remote units to respond	Check for missing responses on 'UNIT' LEDS in setup mode	-
6 – 'Data bus Fail'	Data loop cable open circuit	Test loop wiring as per 3.3 Ensure all outstations are responding in set up mode.	Press and hold 'Setup Switch' switch F , to reset loop monitors.
7 –'Load'	Indication of periodic battery load test	No Fault	-
8 – 'Mains Fail'	Failure of primary supply	Check for primary power to enclo- sure – check for + 28V DC out from DSP60 Din Rail PSU	Replace faulty DSP60 power supply if necessary.
9 – 'Batt Fail'	Failure of support battery(s) under load condition	Move L6 to position 'B' to reduce load interval to approx. 1 minute. Momentarily press setup switch to start new test sequence, and allow 2 minutes for repeat test. If 'Batt Fail' indicator illuminates again, replace batteries	Momentarily press setup switch after replacement batteries are fitted. Return L6 to position A
10 – 'Charge fail'	Failure of battery connection, or failure of primary supply	Check battery connection loom, including the inline protection fuse Replace if necessary (5A antisurge)	-





4.1 User Master Handset to Make a Call

The Central Control Panel consists of a single master telephone handset, and an array of momentary illuminated switches, one of which is assigned to each remote outstation during system commissioning.

Where these are identified on the Control Panel with simple numeric indications, a LCD screen provides zone text descriptions for each disabled refuge location.

Lifting the master handset will clear any faults present on the system. The LCD screen will change to either [NO ZONE TEXT] which indicates that the system has no zone location text entered. The set-up procedure 3.5 is required before zone information can be displayed.

[NO ZONE TEXT] * ENTER VIA SETUP *
SCROLL < > CALL LOCATIONS







Once Setup 3.5 procedure has been completed, lifting the master handset will display the edited zone descriptions for each zone. Each zone location can be scrolled by pressing the left and right buttons.

DISABLED REFUGE Z1 [15 TH FLOOR SOUTH]
SCROLL < > CALL LOCATIONS







The zones descriptions will only display the edited zones.

Once the disabled refuge zone has been selected, press the corresponding zone button number will connect the outstation to the master handset.



4.2 User Master Handset to Receive a Call

The Central Control Panel consists of a single master telephone handset, and an array of momentary illuminated switches, one of which is assigned to each remote outstation during system commissioning.

Where these are identified on the Control Panel with simple numeric indications, a LCD screen provides zone text descriptions for each disabled refuge location.

When a call is present on the system from an outstation pressing its call button, the master handset will ring with a conventional 'double pulse' ring tone.

The panel switch associated with the particular outstation zone will start to flash, in time with the ring tone. The LCD screen will display the zone number and location text for the calling in outstation.

DISABLED REFUGE Z1 [15 TH FLOOR SOUTH] [1] CALL WAITING







The call is answered by lifting up the master handset, and momentarily pressing the flashing zone switch. The switch illumination will change to a solid state and you will hear a re-assurance 'beep', the ringer will cease, and the call will be routed through to the remote outstation.

Once the routing is complete, an audio path is established, and a two way full duplex conversation may take place, between the master handset operator, and the remote outstation. The call is cleared by replacing the master handset onto its cradle switch. This action will also clear the call status of the remote outstation automatically.

4.3 User Master Handset to Receive Multiple Calls

In the event that the system is already in use, and a second remote outstation calls in, then the calling remote outstation will continue to hear the double pulse call tone. The associated call switch on the central control panel will begin to flash with a 'busy' pattern (c. 0.5 seconds on/off). There is no audible indicator of the additional call(s) at the central panel.

The LCD screen will change to show the number of calls on the system [3] CALLS WAITING. Pressing the left or right buttons will scroll through the active call zone descriptions.

DISABLED REFUGE Z1 [15 TH FLOOR SOUTH] [3] CALLS WAITING SCROLL < >







The central control operator may either press this 'busy' indicating switch, whilst maintaining the current call status, so that the switch illumination goes solid, and the newly selected remote outstation is added to the audio buss, permitting a three way conversation to take place.

Alternatively, the central control operator may prefer to clear the first call, by replacing the master hand set onto its cradle, and then 'pick up' the second call by lifting the master handset again, and pressing the flashing 'busy' switch.

Note that a maximum of up to 4 outstations should be connected at any one time. This can cause confusion as to who is being spoken to. In practice it is usually found that two is a more suitable operational limit.

Once the routing is complete, an audio path is established, and a two way full duplex conversation may take place, between the master handset operator, and the remote outstation. The selected calls are cleared by replacing the master handset onto its cradle switch. This action will only clear answered calls. Unanswered calls will automatically call back in.

4.4 User Remote Outstation Call - To Make a Call to Central Control



Press the CALL button on the front of remote outstation.

The 'CALL REGISTERED' LED will light, and a standard 'double pulse' call tone will be heard from the panel loudspeaker.

(N.B. If the system is already in use, a call tone will be heard as above until the Operator connects the call. The master control panel will register that a second call has been made. The main operator can then decide on whether to answer the second call together with the call already in use or to hang up and have private conversation with the new call.

Once the call is picked up at the central control station, it is then possible to hold a two way conversation with the controller. Speak slowly and clearly, at a distance of no more than 1 metre from the outstation, for best results.

At the conclusion of the call, the remote outstation call status will be reset automatically by the central control panel.

4.5 Fault Conditions

There are a number of fault states to which the central control equipment responds. At the outset of a fault condition, the internal control panel fault sounder will sound, and the two front panel 'fault' LEDs will flash with a slow (c. 2 seconds on / 2 seconds off) pattern. The LCD screen will change to *** SYSTEM FAULT ***

In the event that the fault is with a specific outstation, the appropriate call switch on the main control panel will also flash with the same pattern.

In the event that the fault condition is no location specific, then examination of the fault LED status internally within the control panel is required. This task should be carried out by suitably qualified service personnel. There are no user serviceable parts inside the central control enclosure.

To silence the fault sounder, momentarily press the 'LAMP TEST/ SILENCE FAULT' switch on the control panel.

Note that this action will only silence the fault sounder, and not clear the fault condition.

The occurrence of a further fault condition will restart the fault sounder.

All fault conditions should be reported to the service agent as soon as possible.

4.6 User Master Handset to Receive a Toilet Alarm

When a toilet alarm is present on the system from a pull cord being pulled. The sounder will sound to draw attention to the master panel. The lamp test button can be pressed to mute the sounder whilst investigating the alarm. The sounder will resound every 2-3 minutes until the alarm has been reset at the toilet locations.

The LCD screen will indicate the zone and text location.

TOILET ALARM Z1 [4 TH FLOOR LOBBY] [1] ACTIVE TOILET







Multiple toilet alarms will show as the number of active toilets. [2] ACTIVE TOILETS

TOILET ALARM Z1 [4 TH FLOOR LOBBY] [2] ACTIVE TOILETS SCROLL < >







Pressing the left or right buttons will scroll through all active toilet alarms.

If a disabled refuge call is made or the master handset is lifted, the system will automatically prioritise the disabled refuge functions over the toilet alarm. The toilet alarm will reinstate once the disabled refuge call has cleared or the master handset s replaced.

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	Zone Text Location 1	Zone Text Location 2	Zone Text Location 3	Zone Text Location 4
	0	0	ГОВВУ	ГОВВУ
	н	Н	ST FLOOR	NORTH
	2	2	ND FLOOR	EAST
	ю	က	RD FLOOR	SOUTH
	4	4	TH FLOOR	WEST
	ហ	ıs	LWR GND	П
	9	9	GROUND	2
	7	7	BASEMENT	က
	∞	∞	MEZZANINE	4
	6	6	LEVEL	rv
	BLANK	BLANK	CORE	9
	BLANK	BLANK	EXT STAIR	7
	BLANK	BLANK	LEVEL CORE	∞
	BLANK	BLANK	FLR CORE	6
	BLANK	BLANK	STAIR	BLANK
	BLANK	BLANK	BLANK	BLANK
Examples				
1ST FLOOR EAST	BLANK	1	ST FLOOR	EAST
14TH FLOOR NORTH	1	4	TH FLOOR	NORTH

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