VIGIL *CommuniCare* Disabled Refuge System

Disabled Refuge System that complies to:

BS 5839 (Part 9) and the Disability Discrimination Act (DDA).

Safe and efficient emergency evacuation within any structure.

VIGIL CommuniCare is designed with functionality and practicality equally in mind.

▲ The system is fully digital ensuring the speech and audio clarity of CommuniCare is of high quality.

▲ The system is fully monitored at all times – thus it is available when needed, during an emergency.

▲ In the event of a power failure, internal batteries keep the system running for 24 hours quiescent with an additional three hours at full use.

▲ A slave panel can be added to the system to give local control.

▲ The typical length of fire rated cable between the control panel and remote units is 200m.

▲ Ring configuration cable requirements are reduced by up to 75% compared to a star design. Remotes can be located anything up to 200m from each other depending on the cable being used. Baldwin Boxall strongly recommends that soft skinned, colour coded, 4-core with screen cable is used.

▲ The 200m distance can be extended by adding a repeater unit. Each repeater unit extends the distance by up to 200m depending on the cable being used, this does not cut down on the number of remotes on the loop.

▲ The system's self-learning feature on commissioning means consecutive remotes are numbered adjacently on the master control panel buttons.

▲ All remote area select buttons on the master can be labelled using inserts placed behind a membrane; a template is provided with the system or can be downloaded from the CommuniCare page on our website: www.baldwinboxall.co.uk.

For specific technical advice on the system, choice of cabling, cabling design or any other aspect of the Vigil range of products please contact our **Technical Advice Team on +44(0)1892 664422**.

PRODUCT CODES

Master Control Panels: BVCR16~16 way, BVCR32~32 way, BVCR48~48 way, BVCR64~64 way

Remote Units: BVCREFU~standard red unit, BVCREFUS~standard stainless steel unit, BVCRUNA~unassisted unit

Repeater Unit: BVCREPE

Bezels: BVCRFBI~16-64 way master control panel bezel, BVCRMRED – Bezel for BVCREFU standard red remote unit BVCRMSS – Bezel for BVCREFUS standard stainless steel remote unit

BALDWIN BOXALL
COMMUNICATIONS

For over twenty years we at Baldwin Boxall have been at the forefront of the communications industry and are recognised as being Europe's market leading independent manufacturer of Voice Alarm/Voice Evacuation, Emergency Voice Communication Systems, and Public Address Equipment. As early as 2000 we were asked by a major international entertainment organisation to look at the communication issues involved with the provision of a Disabled Refuge Area within a building. Communication at all times with the building authorities and staged, controlled evacuation needed to be made possible, minimising the risk to both the disabled users and their rescuers/aides.

The safe and efficient emergency evacuation of any structure, be it a large shopping centre, a cinema, stadium, school or college, etc, has always been a challenge to the building management and emergency services. Chief amongst the issues has always been the safety of the disabled users who are unable to self-evacuate. Manually handling disabled patrons, especially down stairwells, has always been at best problematic. With the introduction of the Disability Discrimination Act of October 2004, this issue becomes not only topical, but one that is also now a key part of Health & Safety for all buildings and their owner/operators.
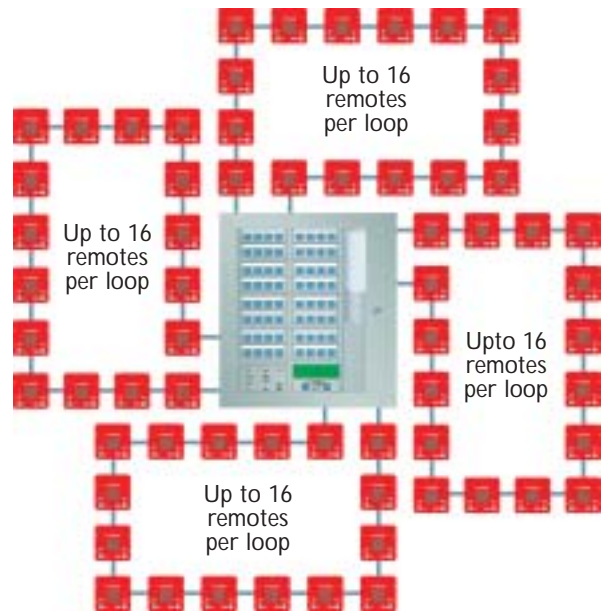
The result is VIGIL CommuniCare; specifically designed for the use by the disabled either with the aid of the able bodied or unaccompanied within a Disabled Refuge Area. With the introduction of Vigil CommuniCare, we have further established our reputation for customer satisfaction, service and functionally advanced solutions by becoming one of the first to offer a Disabled Refuge System.

VIGIL CommuniCare is a sophisticated, digital emergency voice communication system based on proven technology and which has been developed to meet BS5839 part 9. The system is a fully monitored, battery backed communication network, which enables building management to communicate efficiently with occupied Disabled Refuge Areas. This ensures that the occupants are evacuated with ease and without panic. The whole system is simple to operate and install and works independently to any other emergency communication system within a building. It is wired in a ring circuit configuration, and is self-learning, thus enabling an auto-commissioning feature, but importantly saves up to 75% on cabling costs compared to typical star circuit systems. VIGIL CommuniCare utilises a 4-wire plus screen ring circuit to allow continued operation in the event of a cable break; that means should part of a circuit be broken or damaged all the remote units continue to work.

The system has two main components; the Master Control Panel and the Refuge Area Remote Units. The Master Control Panel is typically wall mounted within a central Control Room, and the Refuge Area Remote Units are wall mounted in the refuge areas at a height easily reached by occupants (900mm–1.2m). VIGIL CommuniCare master panels can be configured as a remote Slave panel on the ring circuit, thus allowing control of local refuge areas.

Installation: Office Complexes, Nationwide.

Up to 16 remotes per loop

Up to 16 remotes per loop

Upto 16 remotes per loop

Up to 16 remotes per loop

Installation: Odeon Cinemas, Nationwide.

VIGIL CommuniCare Features

Master Control Panel:

▲ Up to 64 way, constructed in 16 way switch boards

▲ Wall mountable – optional flush mounting with bezel (see below)

▲ Lockable glazed door

▲ Half or full duplex speech (via remote unit) – full being optional

▲ Fully monitored – faults reported at the Master Control Panel

▲ Battery backed – 24 hour quiescent with three hours use, 230VAC with in-built battery charger

▲ Volt free contact – operated when in fault, set during installation

▲ Indicators for: in use/occupied, call, fault, power, charger and speech volume

▲ 'Listening' facility

▲ Fully BS5588 Part 8 and BS5839 part 9 compliant, when installed according to both standards

▲ Dimensions: 410mm (W) x 455mm (H) x 200mm (D)

▲ Bezel dimensions: 461mm (W) x 506mm (H) x 25mm (D)

▲ Bezel cut out dimensions: 420mm (W) x 465mm (H)

▲ Knockouts, 20mm diameter in top and top/rear

▲ Distinguishing 'Green' name panel.

▲ Weight, including battery; 26kg

Refuge Area Remote Unit:

▲ Half or full duplex speech – full being optional

▲ Red or stainless steel finish

▲ System healthy and 'occupied' indicator

▲ Volt free contact, active when occupied. To operate over-door lamps, silence speaker/sounder etc.

▲ Occupied/call and reset switches

▲ Wall mountable – optional flush mountable bezel available (see below)

▲ Self-powered from ring circuit

▲ Up to 16 remote units per loop

▲ Dimensions: 134mm (W) x 134mm (H) x 46mm (D)

▲ Bezel dimensions: 154mm (W) x 154mm (H) x 10mm radius

▲ Bezel cut out dimensions: 136mm (W) x 136mm (H) x 10mm radius

▲ Knockouts, 20mm and 25mm diameter in sides of back box

▲ Weight 1kg

System Requirements:

▲ Fire rated cable should be used and must be four core with a screen

▲ Up to 200m cable run between remotes and control panel as standard

▲ A ring circuit configuration must be used, please contact our sales department for wiring methods

▲ A repeater unit must be used if distance between units exceeds 200m

▲ Up to 16 remote units per loop

▲ The ring configuration allows for auto-commissioning; as the system 'self-learns' and numbers all remote units.

VIGIL CommuniCare utilises a ring circuit with a maximum of sixteen remotes on each ring, with up to four rings per master control panel. There can be up to 200m of cable between each. It is possible to extend this distance by installing a repeater unit; this does not cut down on the number of remotes. It is necessary for the first and last remotes to be no more than 200m from the Control Panel. By utilising this ring method it is possible to save up to 75% on cabling costs when compared with typical star circuit systems. The intelligence of the system ensures that if the circuit were to be broken at any point on the loop, the system will still operate without loss of communication, i.e. it is self-healing.

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3

VIGIL CommuniCare Disabled Refuge System

Vigil CommuniCare Unassisted Refuge Remote Unit

The unassisted refuge remote is specifically designed for operation by a disabled person within a Disabled Refuge Area, without the aid of an able bodied person. It differs significantly from the standard VIGIL CommuniCare remote unit, both in looks and operation;

▲ A fundamental difference is that it has the option to be activated only in response to an emergency, by a building's fire detection system. The fire detection system activates the Vigil CommuniCare master control panel which in turn triggers the remote units to a 'usable' state. This system provides a significant advantage in terms of vandal/tamper proofing and false alarms, a problem that could plague many public buildings.

▲ The unassisted remote unit is green, matching standard coding for escape systems, and is only available as a flush mounting unit.

▲ The front panel has a large central vandal resistant button, which is surrounding by a circle of green LEDs.
　▲ When in 'stand-by' the top LED flashes once every two seconds, indicating the remote unit is healthy.
　▲ When the remote is 'activated' by the master control panel the entire circle of LEDs flashes together every half second.
　▲ When the central button is pressed so that communication with the master control panel is opened all LEDs are continuously lit.

▲ The front panel text and graphics on the unassisted Refuge Area Remote Unit are luminescent, thus aiding evacuation and use in low visibility conditions, e.g. emergency lighting.

▲ All lettering on the unit is in both high visibility raised tactile script and Braille.

▲ The unassisted remote unit is available in three formats;
　▲ Standard; featuring the standard CommuniCare operating communication system
　▲ Enhanced; with all the basic features and an in-built induction loop
　▲ Advanced; with all the enhanced features and a CCTV monitor output from a refuge area mounted camera

▲ The system's master control panel and system requirements/features are as those for Vigil CommuniCare, outlined on the previous pages. Please note this remote unit is NOT VOX operated.

CommuniCare ~ Technical Specification

Control Unit		System Cable Requirements
Power supply	230V AC	The maximum length of fire rated cable between
Power consumption (VA)	10VA + 1VA per remote handset connected	the control panel and remote is:
Weight	26kg up to 64 way unit	MICC lightweight 4-core with screen: 100m
Humidity range	95% Non-condensing	MICC heavyweight 4-core with screen: 200m
Temperature range	-10˚C to +30˚C	Soft skinned colour coded 4-core with screen: 200m
Indicators	In-use, call, fault, power, charger and speech volume	
Remote signalling of fault	Volt-free contact, closing/opening set on commissioning	
Dimensions mm – W x H x D	410mm (W) x 455mm (H) x 200mm (D)	
Bezel Dimensions – W x H x D	461mm (W) x 506mm (H) x 25mm (D)	
Bezel cut out dimensions – W x H	420mm (W) x 465mm (H)	
Knockouts	20mm diameter in top and top/rear	

Remote Refuge Units	Standard	Unassisted
Power supply	12 - 40V DC, self-powered from ring circuit	12 - 40V DC, self-powered from ring circuit
Power consumption (VA)	30mA @ 35V typical	30mA @ 35V typical
Weight	1kg	1kg
Humidity range	95% Non-condensing	95% Non-condensing
Temperature range	-10˚C to +40˚C	-10˚C to +40˚C
Indicators	System Healthy, in-use	System Healthy, system activated and in-use
Dimensions mm – W x H x D	134mm (W) x 134mm (H) x 46mm (D)	176mm (W) x 436mm (H) x 3mm (D)
Bezel Dimensions – W x H x D	154mm (W) x 154mm (H) x 10mm radius	Not applicable
Bezel cut out dimensions – W x H x D	136mm (W) x 136mm (H) x 10mm radius	No bezel required. Cut out for back box 160mm (W) x 215mm (H) x 65mm (D)
Knockouts	20mm and 25mm diameter in sides of back box	2 off 20mm diameter top and bottom of back box

Link-up
Link-up ID 21178

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THE COMPLETE SPECTRUM OF COMMUNICATION SOLUTIONS

INVESTOR IN PEOPLE
Cert No. FM41357
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sussex enterprise member

Low Voltage Directive 73/23/EEC as amended by 93/68/EEC
EMC Directive 89/336/EEC as amended by 92/31/EEC and 93/68/EEC
Applies only when the items are correctly fitted and operated in or with products of our manufacture and are installed in a recommended enclosure.