



ENTERGENCY VOICE COMMITNICATION SYSTEMS

SYSTEM BROCHURE





SMS is a Honeywell Life Safety Systems business, based in the UK offering a wide range of market leading fire detection and alarm products.

Operating for over 25 years, SMS works in partnership with selected fire alarm installers across the length and breadth of the United Kingdom. The Emergency Voice Communication System products are available to 150 approved, trained and certified companies, providing choice and expertise in all manner of services required. A full list of SMS approved partners are available on request.

Honeywell is proud of it's innovation in technology delivering leading and dependable fire detection and alarm equipment across the globe. Aside from providing fire detection and alarm systems, Honeywell also offers expertise in security products, building control management products as well as wiring and electrical devices.

EMERGENCY VOICE COMMUNICATION SYSTEMS (EVCS)

Disabled refuge systems

Disabled refuge systems are designed for use in buildings that contain refuge areas. This type of intercom system allows emergency services to be in constant contact with the people in the refuge areas who seek assistance. The Equality Act (formerly The Disability Discrimination Act) made it the responsibility of all companies, nationwide, to ensure that access to buildings and services is available to everyone - there must be no discrimination.

With access provided for all, provision must be made for safe evacuation in the event of an emergency. In some circumstances, those with physical impairments can be assisted by others - but in many situations this is not suitable or safe.

A solution comes in the form of temporary areas of safety - 'refuge areas'. The person in need of assistance is helped to the closest refuge area and awaits safe evacuation. Refuge areas must meet certain criteria, these are covered in BS9999:2008. As well as describing suitable areas for refuge and the type of construction, the Standard specifies the need for two way communication.

An EVCS (emergency voice communication system) or Disabled Refuge System allows firefighters and others to communicate with one another during emergency situations. The system also allows communication with disabled persons. It 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 under the direction of management of firefighters." (BS5839-9:2003 3.3).

Please find below an extract from the British Standard for your reference

BS 5839-9:2003

Fire detection and alarm systems for buildings. Code of practice for the design, installation, commissioning and maintenance of emergency voice communication systems

Executive summary

Recommendations for the planning, design, installation, commissioning and maintenance of emergency voice communication systems in buildings.

Abstract

This British Standard, a part of the BS 5839 series, provides recommendations for the planning, design, installation, commissioning and maintenance of emergency voice communication (EVC) systems in and around buildings and at sports, entertainment and similar venues. It ensures that high standards of reliability, safety and security are achieved, together with acceptable standards of performance.

This code of practice primarily relates to the use of EVC in assisting both firefighters and those responsible for evacuating buildings or sports stadia in fire emergency situations, including evacuation of disabled persons. Use, other than in fire emergency situations, by disabled persons and others, although not precluded, is not addressed in detail.

In the context of this code of practice, an EVC system contains no portable parts. Mobile telephones and two-way radio sets are therefore not within its scope. Voice alarm systems are primarily intended for the automatic broadcasting of evacuation messages are excluded from this code of practice. This British Standard does not recommend whether or not an emergency voice communication system should be installed in a given premises. This part of BS 5839 does not cover systems combining electrically the functions of EVC systems with functions of other fire-related or non-fire-related systems.

This part of BS 5839 applies only to emergency voice communication systems for use in a temperate climate such as that of the United Kingdom.







The Overview

The Gent EVCS offers choice of 3 systems for small, medium and large buildings. Each offering the combined function of Fire Telephones, Disabled Refuge and Emergency Assist Alarm.

Fire Telephones

Fire telephones are hardwired full duplex communications systems with monitoring and battery backup, and are required in buildings over 4 stories in many countries in the world (in the UK this is governed by BS 9999). These are provided as a backup to traditional fireman's radio systems, which can fail to operate in many high rise environments due to the large amount of steel in the building, and the "corona" effect of fire on radio broadcasts.

Fire telephones are also required in fire fighting lift lobbies when these lifts are provided within a building. Fire telephones can also be used for fire wardens to call the control point during fire drills and primary evacuation phases before the fire services arrive and assume control.





Disabled Refuge Systems

FiDisabled Refuge Systems are required in the UK in all non domestic premises over 1 story or where an emergency exit is by stairs (for a full description see building regulations approved document B).

A Disabled Refuge is a relatively safe area within a building or exit staircase where mobility impaired occupants can be placed (not just wheelchair users) while the main building occupancy is evacuated, allowing building management and emergency services to safely assist these people from the building when stairwell crowding has eased.

EVCS in Disabled Refuge areas allows emergency services to communicate with people requiring assistance.

EMERGENCY VOICE COMMUNICATION SYSTEMS (EVCS)



Emergency Assist Alarm

An Emergency Assist Alarm is defined in Building Regulations Approved Document M, and must be provided at all disabled toilets within non domestic premises, if the toilet is in a non permanently occupied space, remote indication must be provided at a central control or monitoring point.



An Emergency Assist Alarm can only be reset by attending the location of the call, so the reset point is within the cubical, also allowing accidental calls to be cancelled by the toilet occupier.

The Emergency Assist Alarm System is powered from the local exchange or compact unit, and is fully monitored over and above the specification described in BS 8300.



The Compact 5 system

Compact 5 is ideal for the smaller installations which require a limited nuf Outstations and Emergency Assist Alarms.



The system comprises of the 5 Line Exchange Unit can manage up to 5 Outstations (Type

A, type B, or Emergency Assist Alarms). It requires no programming and is simple to install. It is designed to comply with BS 5839 9 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.

Compact 5 is a self contained system, which requires no external power supply and is easily commissioned requiring no site configuration.

Key features:

- BS 5839-9: compliant
- Monitored handset
- Monitored supply and charger
- Up to 5 Outstations
- 5 line keys, 1 fault accept
- 15 status LED's
- Full duplex system
- Wall mount case

Benefits:

- Simple cabling, Outstations connect directly into the master using 2 core radial fire rated cables
- Type B Outstation the Compact 5 Line Exchange Unit can also monitor Emergency Assist Alarms
- No programming required, simply connect the Outstations and the system is ready to work

Control and Design

The Compact 5 Line Exchange Unit is a self contained enclosure housing a master handset, 5 Line Exchange, power supply, and battery charger. It can be surface or semi-flush mounted as standard.

The case is made from powder coated zintec, with a smoked perspex door covering the handset.

20mm cable knockouts are provided for all necessary cables as well as space for the backup 12V SLA battery.

The unit is microprocessor controlled, but requires no programming on site; the panel is fitted with end of line resistors which are simply discarded when an Outstation is connected.



EMERGENCY VOICE COMMUNICATION SYSTEMS (EVCS)

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| Mechanical Specification | | |
|--------------------------|-------------------------------------|--|
| Dimensions: | | |
| Height | 300 mm | |
| Width | 350 mm | |
| Depth | 120 mm | |
| Weight | 6.5Kg | |
| Inputs | | |
| Number of Lines | 5 | |
| Remote Enabler | Short to Use | |
| End of Line | 10K | |
| Outputs | | |
| Number | 2, Fault & In Use | |
| Туре | Volt Free Relay | |
| Contact | 30V DC 1A | |
| Controls | | |
| Buttons | 6, 5 Lines, 1 Fault acknowledgement | |
| Zone LEDs | 5 Status, 5 Fault Status | |
| Fault LEDs | 3, AC, DC, General | |
| Outstation Cables | | |
| Туре | Enhanced* | |
| Cores | 2 Core 1mm or 1.5mm | |
| Distance | 500m | |
| Electrical Specification | | |
| AC Input | 230V AC +/- 10% 50/60Hz | |
| Internal Power Supply | 14V DC | |
| Supply & Battery | Monitored, Open, Short, Fuses | |
| Protection | Deep discharge, Short, Thermal | |
| Temperature Compensation | Yes | |
| Battery Size and Type | 1 x 12V 4.2AHr | |
| Mains Fuse | 240V 2A HRC | |
| Battery Fuse | 1A PTC | |
| Max Charge Current | 250mA | |

| ORDER CODES | |
|--|-----------------------|
| Compact 5 Master Handset Wall Mount | EVCS-CMPT |
| SYSTEM COMPONENTS | |
| Flush Outstation Push Door, Type A | EVCS-HFP |
| Surface Station Push Door, Type A | EVCS-HSP |
| Surface Outstation Type B, Red | EVCS-HSB |
| Surface Outstation Type B, Green | EVCS-HSBG |
| Surface Outstation Type B, Stainless Steel | EVCS-HSFSS |
| Flush Mounting Bezel Type B, Stainless Steel | VCFHB |
| Loose Handset With Jack Lead | EVCS-HLJ |
| Wall Jack Outlet Point | EVCS-WJP |
| Emergency Assist Alarm Netwo – PSU not included | rk Version EVCS-TA |



The Compact 9 System

The Compact 9 System is ideal for small to medium sized installations which don't require the complexity of a full network solution.



This system comprises of the 9 Line Master ExchangeUnitandupto9Outstations(TypeA, Type B, or Emergency Assist Alarms.

Using the 10 line Slave Exchange Unit this system can be easily expanded to 19 lines.

This Compact 9 Emergency Voice Communication System (EVCS) is designed to fully comply with BS 5839-9 -2011 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. This is important as the standard states that where both systems are fitted to a building these should form a single system.

Key features:

- BBS 5839-9 compliant
- Built in power supply to FN54 part 4
- 4 navigation keys
- 6 status LED's
- 4 line, 20 character LCD
- Full duplex communications
- Simple menu programming
- Contact outputs to interface with Fire Detection or Voice Alarm Systems

Benefits:

- 10 Line Slave Exchange
 unit and the 9 Line Master
 Exchange Unit can be
 expanded up to 19 lines
- In addition to Type A and Type B Outstation can also monitor Emergency Assist Alarms (using a 2 core radial)
- 4 core is fire rated cable used to connect exchange unit to the slave

The Compact 9 is modular in design and the controller manages all functions for the first 9 zones. There is no need for additional equipment such as power supplies.

Control and Design

The Compact 9 Line Master Exchange Unit is a self contained enclosure housing a Master Handset, 9 Line Exchange, power supply, and battery charger. It can be surface or semi-flush mounted as standard.

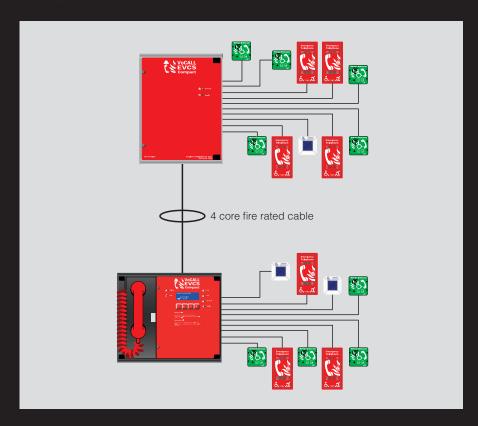
The case is made from powder coated zintec, with a smoked perspex door covering the handset.

20mm cable knockouts are provided for all necessary cables as well as space for the backup 12V SLA battery.

The unit is microprocessor controlled, with simple menus, including a call log, fault log and change log, all accessible from the front panel navigation keys.







| MECHANICAL SPECIFICATION | |
|----------------------------|--------------------------------|
| Dimensions: | |
| Height | 300 mm |
| Width | 350 mm |
| Depth | 95 mm |
| Weight | 6.5Kg |
| INPUTS | |
| Number of Outstation Lines | 9 or 19 (with Exchange Unit) |
| Remote Enabler | Short to Use |
| OUTPUTS | |
| Number | 2, Fault & In Use |
| Туре | Volt Free Relay |
| Contact | 30V DC 1A |
| CONTROLS | |
| Buttons | 4 navigation keys |
| Zone LEDs | 3 (in-use, healthy, energised) |
| Fault LEDs | 3 (Line, PSU And General) |
| OUTSTATION CABLES | |
| Cores | 2 core (1mm or 1.5mm) |
| Distance | 500m |
| EMC | EN 55103-1 & EN 55103-2 |
| Standards | BS 5839- part 9 2011 & BS 9999 |
| ELECTRICAL SPECIFICATION | |
| AC Input | 230V AC +/- 10% 50/60Hz |
| Internal Power Supply | 14V DC |
| Supply & Battery | Monitored, Open, Short, Fuses |
| Protection | Deep discharge, Short, Thermal |
| Battery Type | 1 x 12V VRSLA (5Ah Required) |
| Mains Fuse | 240V 1A HRC |
| Battery Fuse | 250mA PTC |
| Charge Current | 250mA |

| ORDER CODES | |
|--|----------------|
| Compact 9 Line Master Exchange Unit | EVCS-CMPT9 |
| 10 Line Slave Exchange | EVCS-XC10 |
| SYSTEM COMPONENTS | |
| Flush Outstation Push Door, Type A | EVCS-HFP |
| Surface Station Push Door, Type A | EVCS-HSP |
| Surface Outstation Type B, Red | EVCS-HSB |
| Surface Outstation Type B, Green | EVCS-HSBG |
| Surface Outstation Type B, Stainless Steel | EVCS-HSFSS |
| Flush Mounting Bezel Type B, Stainless Steel | VCFHB |
| Emergency Assist Alarm Netwo Version – PSU not included | ork EVCS-TA |



EVCS Network 8

The Network 8 EVCS modular architecture is ideal for use in larger buildings with up to 256 communications zones.



Using this system greatly reduces the cabling requirement and equipment 'on view' in such key places as reception areas, making the system much more aesthetically pleasing to the customer as well reducing the cost of installation.

This Emergency Voice Communication System (EVCS) is designed to fully comply with BS 5839-9:2003 (abb. Part 9) 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. The standard states that where both systems are fitted to a building these should form a single system.

Key features:

- Each Exchange can control up to 8 independent monitored lines
- Built in monitored 1A battery charger
- 12 status LEDs
- Dry contact for fault or "in-use" indication
- Serial port for configuration or updates
- Dual network ports which provide power for the master handsets
- Full duplex system
- Compact design

Benefits:

- LED indication, for effective
 & easy fault finding
- Fault or 'in-use' relay, can be connected to a fire panel or BMS
- Global configuration, upload information quickly via a PC using the serial port
- Up to 32 distributed units on any network, no central exchange rack requiredunit to the slave

EVCS Network 8 is a modular network system. Suitable for use in high rise buildings as well as large complexes such as schools and universities.

The system is controlled by the Network Master Handset. Up to 7 additional Masters can be added allowing the Network 8 to deliver a highly flexible emergency management strategy. Larger systems are built using a series of Exchange Units connected to a loop network providing cost effective and secure installations.

Control and Design

TEach network 8 Line Exchange Unit sits on a data highway and is locally powered, with internal battery backup from a monitored, maintained sealed lead acid battery. Up to 8 Lines can be connected to each distributed exchange, and each line is fully monitored for open, short or earth faults.

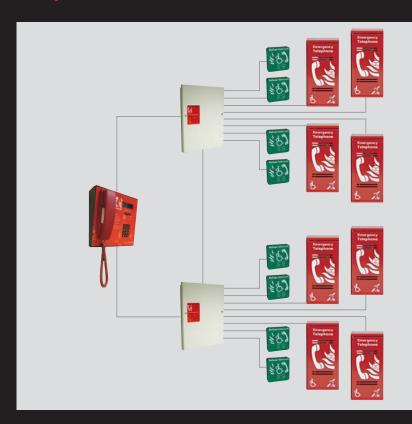
Up to 32 exchange units can be attached to a EVCS system giving a maximum system size of 256 independent lines. The Compact case is made from powder coated zintec and is fitted with 20mm cable knockouts for all cables needed, and also provides space for the system backup 12V SLA battery.

Wiring

Using network communications combined with subscriber line telephone techniques, an EVCS provides large scale cable savings, while not requiring a dedicated rack room to house a central exchange.

The network comprises a line or ring of 8 cores, each leg can be up to 500M depending on cable type. Line cables consist of a single 2 core cable, either soft skin types or MICC and only 1mm CSA is required.





| MECHANICAL SPECIFICATION | |
|--------------------------|---------------------------------------|
| Dimensions: | |
| Height | 296 mm |
| Width | 210 mm |
| Depth | 82 mm |
| Weight | 1.6 Kg |
| INDICATION AND CONTROLS | |
| Fault LEDs | 10 off yellow (General, PSU, 8 lines) |
| Status LEDs | 2 off green (AC & DC) |
| Settings | 8 way DIP switch |
| OUTSTATION CABLES | |
| Grade | Enhanced |
| Cable (per line) | 1 off 2 core (twisted for MICC) |
| Distance (per leg) | 500M soft Skin types, 300M MICC |
| Monitoring | DC open, short & earth |
| NETWORK CABLES | |
| Туре | Enhanced |
| Cores | 1 off four Pair |
| | or 2 off four core 1mm CSA Soft Skin |
| | or 4 off 1 Pair MICC Twisted |
| Distance | 500M soft Skin, 300M MICC |
| STANDARDS COMPLIANCE | |
| EMC | EN55103-1,EN55103-2 |
| LVD | EN61000-3-2, EN61000-3-3,EN60950 |
| Standards | BS5839-pt9, BS9999 |
| ELECTRICAL SPECIFICATION | |
| Power Supply: | |
| Voltage | 230V AC ± 20% |
| Current | 11mA |
| Battery | 12V SLA 7AH |
| Charger | 1A Controlled Impedance |
| Monitoring | Open, short & High impedance cell |

| ORDER CODES | |
|--|---------------|
| 8 Way Exchange Unit – Charge | r EVCS-XC |
| System Components | |
| Master Handset (Desk) | EVCS-MS |
| Flush Outstation Push Door, Type A | EVCS-HFP |
| Surface Station Push Door, Type A | EVCS-HSP |
| Surface Outstation Type B, Red | EVCS-HSB |
| Surface Outstation Type B, Green | EVCS-HSBG |
| Surface Outstation Type B, Stainless Steel | EVCS-HSFSS |
| Flush Mounting Bezel Type B, Stainless Steel | VCFHB |
| Loose Handset With Jack Lead | EVCS-HLJ |
| Wall Jack Outlet Point | EVCS-WJP |
| Emergency Assist Alarm Netwo Version – PSU not included | rk EVCS-TA |



Network 8 Master Handset

The Network Master Handset is desk mounted.



Each system can have up to 8 Master Handsets which gives great flexibility to the larger installations allowing all calls to be monitored from various control points.

As an example, an installation may have security offices requiring a master handset, reception and numerous entrances that need to be monitored.

Control and Design

UThe Network Master Handset has a clear 4 line backlit display which shows the calling Outstation name in plain text, and calls can be made to Outstations by either dialling the number of the unit, or choosing the name from a text dialling directory.

Key features:

- Unito 8 masters per system.
- Controls up to 256 Lines (32 exchanges)
- Monitored handset
- Large high contrast display (4 x 20 character)
- 12 key quick dial keypad
- Full duplex system
- Directory dial function
- Full system event log (fault & configuration)
- 16 character unique name per line
- Dual network ports
- Remote powered

Benefits:

- Flexibility can be used as a Fire Telephone System, Disabled Refuge Call System or as a combined system
- Global configuration, whole site can be configured from the master handset
- Directory dialing, speed dialing
- All hail function makes testing the system simple

Wiring

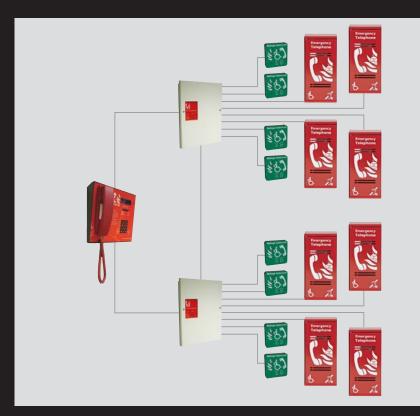
Using network communications combined with subscriber line telephone techniques, a network provides large scale cable savings, while not requiring a dedicated rack room to house a central exchange.

The network comprises a line or ring of 8 cores, each leg can be up to 500M depending on cable type.

A ring topology is recommended by BS 5839-9. In line with the recommendations of BS 5839-9 multiple master handsets can be fitted to a network (up to 8) with lockouts operating when a multiple consoles are in use.







| MECHANICAL SPECIFICATION | |
|--------------------------|---|
| Dimensions: | |
| Height | 268 mm |
| Width | 275 mm |
| Depth | 85 mm |
| Weight | 1.490 Kg |
| INDICATION AND CONTROLS | |
| Fault LEDs | 4 off yellow (General, Panel, Supply & Exchange) |
| Status LEDs | 4 off green (Healthy, AC, DC & Network) |
| LCD High Contrast | Blue/White LCD, four line twenty-character 5x8 pixel format |
| Keyboard | 12 Key Telephone Style |
| Navigation | 3 Keys (left, Accept, right) |
| NETWORK CABLES | |
| Туре | Enhanced |
| Cores | 1 off four Pair |
| | or 2 off four core 1mm CSA Soft Skin |
| | or 4 off 1 Pair MICC Twisted |
| Distance | 500M soft Skin, 300M MICC |
| STANDARDS COMPLIANCE | |
| EMC | EN55103-1,EN55103-2 |
| Standards | BS5839-pt9, BS9999 |
| ELECTRICAL SPECIFICATION | |
| Power Supply: | |
| Source | Network Port x2 |
| Voltage | 11V to 18V DC |
| Current | 88mA @ 12V |
| PROCESSING | |
| Clock | 16MHz |
| Memory | 4K Ram |
| | 20K EEProm |
| | 20K EEProm |
| | 128K Flash |
| Monitoring | Asynchronous Watchdog |
| Checksum | EEPROM & Flash |

| ORDER CODES | | |
|--|---------------|--|
| Master Handset (Desk) | EVCS-MS | |
| System Components | | |
| 8 Way Exchange Unit – Charge | er EVCS-XC | |
| Flush Outstation Push Door, Type A | EVCS-HFP | |
| Surface Station Push Door, Type A | EVCS-HSP | |
| Surface Outstation Type B, Red | EVCS-HSB | |
| Surface Outstation Type B, Green | EVCS-HSBG | |
| Surface Outstation Type B, Stainless Steel | EVCS-HSFSS | |
| Flush Mounting Bezel Type B, Stainless Steel | VCFHB | |
| Loose Handset With Jack Lead | EVCS-HLJ | |
| Wall Jack Outlet Point | EVCS-WJP | |
| Emergency Assist Alarm Netwo Version – PSU not included | rk EVCS-TA | |



EVCS Type A Outstation

The Type A Outstation is compatible with all EVCS systems for use as a standard Fire Telephone or Disabled Refuge call point.



The Type A Outstation is a compact unit which offers easy access via a magnetic push catch door. The flush mountable unit offers a unique front levelling system allowing the back box to be mounted at a slight angle whilst still retaining a true front face and door. A surface mountable unit is also available.

This Emergency Voice Communication System (EVCS) is designed to fully comply with BS 5839-9 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. The standard states that were both systems are fitted to a building these should form a single system.

Key features:

- Compact design
- High volume ringer
- Status LED
- Telecoil for hearing impaired users
- Full duplex operation
- Magnetic push catcl
- Stainless steel option

Benefits:

- Versatility, the unit can be used on all EVCS systems
- Dual use, the type A
 Outstations can be used as a
 fire telephone or a disabled
 refuge call point
- Magnetic push catch, for quick and easy access

An EVCS is a fixed, monitored and maintained, bi-directional, full duplex voice communication system to assist the orderly evacuation of disabled or mobility impaired people and enhance fire fighters communication during emergencies.

Wiring

All type A handsets are defined in BS 5839-9, and can be used as a Fire Telephone or Disabled Refuge call point. When choosing the Outstation Type for use with an EVCS we recommend reading section 11 of BS 5839-9 2011 which deals with Outstation Types, and states as follows:

11.1.a

Type A handsets should be used for evacuation or fire fighting use, and a Type B Outstations should only be used where a Type A Outstations are impractical.

11.1.b

For Disabled Refuges Type A or type B Outstations can be used, however in locations (section 11.6.k) Type B Outstations can only be used where the background noise is below 40dBA (therefore there can be no sounder or voice alarm coverage in the area).



(EVCS) handsets are designed for use by multidisability users, having high contrast signage in line with RNIB guidelines and an induction loop coil (to BS EN 60118-4) in the handset.

It is recommend that a type A handset is used in most locations, otherwise you may have to consider acoustic hoods or 2 Outstations in each location for compliance with the other associated standards and laws, including BS 8300 and the Equality Act 2010.

Mounting The Unit

All type A handsets should be mounted at a height of either 1200mm from the floor, or on a 1400mm centre line to comply with the requirements of Building Regulations Document M (Access for the Disabled).

Surface mounted

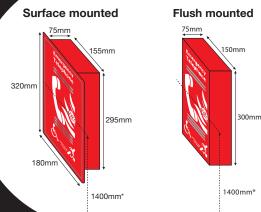
The back box has 4 indented feet to allow mounting on uneven walls.

Flush mounted

A cut out of 300mm x 160mm is recommended, the front bezel has adjustments to level the back box on the wall.

If the units are to be used as a refuge point suitable space must be allowed to the side of the unit to allow a wheelchair to be parked for using the system.

| MECHANICAL SPECIFICATION EVO | MECHANICAL SPECIFICATION EVCS-HSP (SURFACE MOUNTED) | | |
|---|---|--|--|
| Dimensions: | | | |
| Height | 300mm | | |
| Width | 150mm | | |
| Depth | 75mm | | |
| Weight | 1.4Kg (no batteries) | | |
| MECHANICAL SPECIFICATION EVO | CS-HFP (FLUSH MOUNTING) | | |
| Dimensions (with bezel): | | | |
| Height | 320mm | | |
| Width | 150mm | | |
| Dimensions (backbox hole): | | | |
| Height | 295mm | | |
| Width | 155mm | | |
| Depth | 75mm | | |
| Weight | 1.4Kg (no batteries) | | |
| It is recommended to cut hole 300mm x 160mm | | | |
| STATUS LED | | | |
| Flashing when ringing | | | |
| Dimly lit to indicate surveillance | | | |
| Telephone type handset | | | |
| Automatic dialling to EVCS-CMPT when 'off hook' | | | |
| Telecoil for hearing impaired users | | | |
| Magnetic push catch door | | | |



| ORDER CODES | |
|---|----------|
| Surface Outs Station Push Door, Type A | EVCS-HSP |
| Flush Outstation Push Door, Type A | EVCS-HFP |



EVCS Type B Outstation

The Type B Outstations is designed to be versatile, compact and easy to use refuge call point.



This unit can either be surface or flush mounted using a simple to install bezel.

This Emergency Voice Communication System (EVCS) is designed to fully comply with BS 5839-9 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. The standard states that were both systems are fitted to a building these should form a single system.

An EVCS is a fixed, monitored and maintained, bi-directional, full duplex voice communication system to assist the orderly evacuation of disabled or mobility impaired people and enhance fire fighters communication during emergencies.

Key features:

- Compact design
- High volume ringer
- Status LED
- 20mm cable glands
- Loop output for hearing impaired users
- Tactile braille signage
- Full duplex operation
- Flush bezel available
- Stainless steel optior

Benefits:

- Versatility, the unit can be used on all the EVCS system
- Full duplex operation, allowing 2 way voice communication
- Tactile braille signage to assist partially sighted people to easily operate refuge point

Suitability

All Type B Handsets are defined in BS 5839-9, and can be used as a Fire Telephone or Disabled Refuge call point.

When choosing the Outstation type for use with an EVCS we recommend reading section 11 of BS 5839-9:2011 which deals with Outstation Types, and states as follows:

11.1.a

Type A handsets should be used for evacuation or fire fighting use, and Type B Handsets should only be used where Type A Handsets are impractical.

11.1.b

For Disabled Refuges Type A or Type B Outstations can be used, however in locations (section 11.6.k) Type B Handsets can only be used where the background noise is below 40dBA (therefore there can be no sounder or voice alarm coverage in the area).

EVCS Type B Outstations are designed for use by multi-disability users, having high contrast signage in line with RNIB guidelines and a socket for an external induction loop amplifier if required.

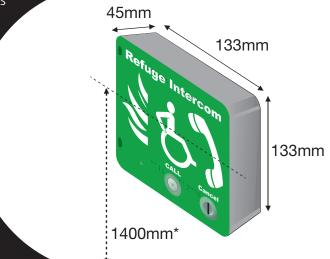


Mounting The Unit

All Type B Outstations should be mounted at a height of either 1200mm from the floor, or on a 1400mm centre line to comply with the requirements of Building Regulations Document M (access for the disabled).

The back box has 4 indented feet to allow mounting on uneven walls.

Type B Outstations can be flush mounted by cutting a hole 133mm x 133mm and 45mm deep, and using the stainless steel bezel to finish the surround.



| TECHNICAL SPECIFICATION | | | |
|---|---|------------------------------|------------------------------|
| Code: | EVCS-HSBG | EVCS-HSB | EVCS-HSFSS |
| Description | Surface Outstation Type B | Surface Outstation Type B | Surface Outstation Type B |
| Standards | EMC: EN55103-1 & EN55103-2 LVD: EN60950 BS5839 Part 9 & BS9999 & EN60118-4 | | |
| Outstation Cables: | | | |
| Glands | 20 mm | 20 mm | 20 mm |
| Cores | 2 core 1 mm or 1.5 mm | 2 core 1 mm or 1.5 mm | 2 core 1 mm or 1.5 mm |
| Distance | 500 m | 500 m | 500 m |
| Indications & Controls: | | | |
| Status LEDs | 2 off red (flashes location | lights, solid in use) | |
| Call | Press to call button | Press to call button | Press to call button |
| Cancel | Press to cancel button | Press to cancel button | Press to cancel button |
| Physical: | | | |
| Construction | Zintec, Powder Coated | Zintec, Powder Coated | Zintec, Powder Coated |
| Colour Option | Green | Red | Stainless Steel |
| Dimensions (H x W x D) | 133 mm x 133 mm x 45 mm | 133 mm x 133 mm x 45 mm | 133 mm x 133 mm x 45 mm |
| Flushing Plate Dimensions | (Fits all) (H x W) 155mm x | 155mm | |
| Weight | 1105g | 1105g | 1105g |
| HANDS FREE COMMUNICATIONS | | | |
| Push button dialling to Co | ompact-5 , Compact-9 and | Network 8 system | |
| Echo cancellation | · · · · · · · · · · · · · · · · · · · | | |
| Noise reduction | | | |
| Induction loop output for hearing impaired users | | | |
| Push button cancel | | | |
| Braille Signage | | | |
| ELECTRICAL SPECIFICATION | | | |
| Fully monitored connections DC open, DC Short and Earth Fault | | | Earth Fault |
| STATUS LED | | | |
| Flashing for line location | | | |
| Continuously lit to indicate call confirmation active | | | |

| ORDER CODES | |
|---|------------|
| Surface Outstation, Type B Red | EVCS-HSB |
| Surface Outstation Type B, Green | EVCS-HSBG |
| Surface Outstation Type B, Stainless Steel | EVCS-HSFSS |
| Flush Mounting Bezel Type B, Stainless Steel | VCFHB |



Roaming Handset & Jack Plate

The Roaming Handset is used along with the Jack Plate for Emergency Voice Communication System installations in countries whose fire codes allow for Roaming Handsets (these units are not suitable for installation in the UK under BS 5839-9).

When

When used together the Roaming Handset and Jack Plate form a Type A Outstation which is compatible with all EVCS systems.

This Emergency Voice Communication System (EVCS) is designed to fully comply with BS 5839-9 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. The standard states that were both systems are fitted to a building these should form a single system.

An EVCS is a fixed, monitored and maintained, bi-directional, full duplex voice communication system to assist the orderly evacuation of disabled or mobility impaired people and enhance fire fighters

communication during emergencies.

Key features:

- Flexible roaming phone
- Low noise high quality telephone iack
- Telecoil for hearing impaired

 users
- Full duplex operation
- Stainless steel jack plate

Benefits:

- The jack plate can be surface or flush mounted
- allowing 2 way voice communication

Suitability

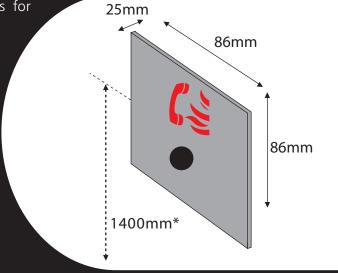
The Roaming Handset and Jack Plate are suitable for EVCS installations in countries whose fire codes allow for Roaming Handsets, this is not suitable for installation in the UK under BS 5839-9.

Mounting The Unit

The Jack Plate should be mounted at a height of either 1200mm from the floor, or on a 1400mm centre line to comply with the requirements of Building Regulations

Document M (access for the disabled).

The Jack Plate fits on to a standard MK style back box (not supplied) and can be flush or surface mounted.





| JACK PLATE SPECIFICATION | |
|--------------------------|--------------------------|
| Cables: | |
| Cores | 2 core 1 mm or 1.5 mm |
| Distance | 500 m |
| Monitoring | dc open, short and earth |
| End Of Line | 10K 1/4 W |
| Physical: | |
| Construction | Brushed Stainless Steal |
| Dimensions: | |
| Height | 86 mm |
| Width | 86 mm |
| Depth | 25 mm |
| Weight | 140 g |

| ROAMING HANDSET SPECIFICATION | |
|-------------------------------|------------------------------------|
| Standards EMC: | EN55103-1 & EN55103-2 LVD: EN60950 |
| Controls: | |
| Call | Automatic "Off Hook" dialing |
| Connection: | |
| Jack | 1/4" mono neutrik heavy duty |
| Physical: | |
| Construction | ABS UL90V1 |
| Dimensions: | |
| Height | 210 mm |
| Width | 66 mm |
| Depth | 45 mm |
| Weight | 700 g |

| ORDER CODES | |
|------------------------------|----------|
| Loose Handset With Jack Lead | EVCS-HLJ |
| Wall Jack Outlet Point | EVCS-WJP |



Emergency Assist Alarm Kit

The Emergency Assist Alarm Kit has been specifically designed to integrate disabled call functions into the EVCS network or EVCS compact ranges providing the perfect solution for conformity with the Building Regulations Document M and Equality Act 2010.



It has now become very common for the disabled toilet to be specified as part of the refuge system. Disabled toilet alarms are required by Building Regulation Document M, and by integrating it with the Emergency Voice Communication System all calls relating to disabled communications can be displayed in a single point.

The Emergency Assist Alarm Kit solution is fully monitored and battery backed by the EVCS system, saving local power supplies and giving confidence in the system integrity.

The Emergency Assist Alarm Kit shows up as a call on the EVCS system, but has no speech path so a conversation cannot be had with the occupant, use of the Type B Outstations would

allow this.

Key features:

- Monitored to BS 5839-9
- Remote powered from EVCS exchange
- Dual loop pull cord
- High contrast labels
- Braille on cancel plate
- Blue indication

Benefits:

- Saving power, no PSU is required remote powered by EVCS system
- One install saves running 2 separate systems
- One location all calls from disabled toilets and refuge points monitored from one location
- Tactile braille signage to assist partially sighted people to easily operate the cancel plate

Suitability

The Roaming Handset and Jack Plate are suitable for EVCS installations in countries whose fire codes allow for Roaming Handsets, this is not suitable for installation in the UK under BS 5839-9.

Mounting The Unit

The Jack Plate should be mounted at a height of either 1200mm from the

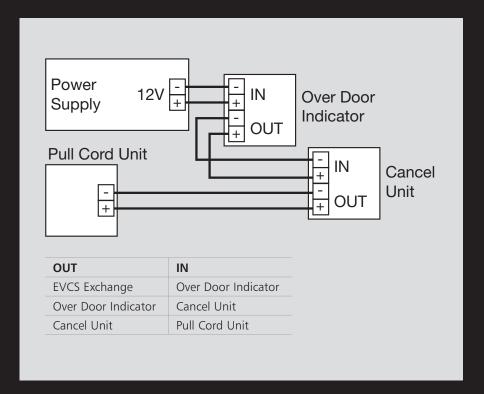
floor, or on a 1400mm centre line to comply with the requirements of Building Regulations Document M (access for the disabled).

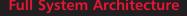
The Jack Plate fits on to a standard MK style back box (not supplied) and can be flush or surface mounted.





Wiring Guide Using 2 Core Cable

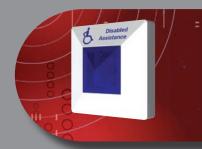




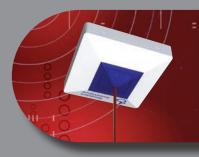
| OVER DOOR INDICATOR SPECIFICATION | | |
|-----------------------------------|----------------------|--|
| Operating Voltage | 12V dc (nominal) | |
| Physical | | |
| Construction | PC | |
| Dimensions (H x W x D) | 87mm x 87mm x 31.5mm | |

| CANCEL BUTTON SPECIFICATION | | |
|-----------------------------|--------------------|--|
| Operating Voltage | 12V dc (nominal) | |
| Physical | | |
| Construction | PC | |
| Dimensions (H x W x D) | 87mm x 87mm x 25mm | |

| PULL CORD UNIT SPECIFICATION | | |
|------------------------------|------------------------------|--|
| Operating Voltage | 12V dc (nominal) | |
| Physical | | |
| Construction | PC | |
| Dimensions (H x W x D) | 87mm x 87mm x 30.5mm (+cord) | |







ORDER CODES

Emergency Assist Alarm Stand Alone Kit

– Supplied with PSU (1x Power Supply Unit,
1x Over Door Indicator, 1x Cancel Button,
1x Pull Cord Unit, 1x Disabled Sticker)

EVCS-TAP

Emergency Assist Alarm Network Version
– PSU not included (1x Over Door Indicator,
1x Cancel Button, 1x Pull Cord Unit,
1x Disabled Sticker) EVCS-TA



Emergency Assist Alarm, Stand Alone Kit

The Emergency Assist Alarm, Stand Alone Kit provides the perfect solution for conformity with the Building Regulations Document M and Equality Act 2010.

Disabled Assistance

Cancel

Disabled Assistance

Cancel

Assistance

Cancel

Assistance

Cancel

Assistance

Cancel

This is a simple 2 wire system that has been specifically designed to meet the needs of disabled service users and conforms to all the relevant requirements;

Disability Rights Commission code of practice, English Tourism Council

Recommendations and RNIB signage guidelines.

The use of combined high output blue LED indication and buzzer ensures a response to the call.

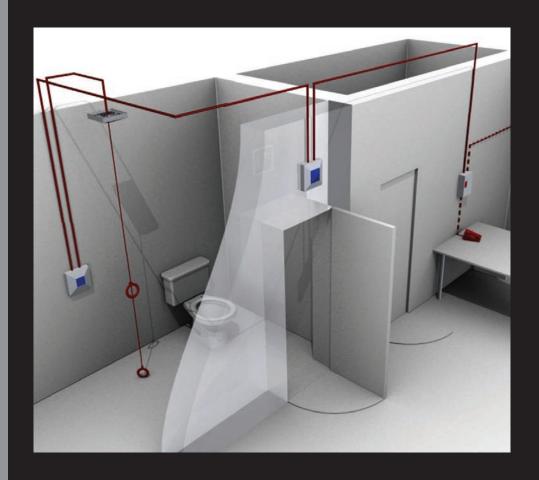
The Emergency Assist Alarm, Stand Alone Kit comprises of all the components needed to install a fully compliant system, with additional parts available separately.

Key features:

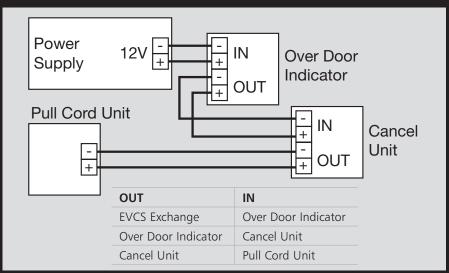
- Complies with regulations & recommendations
- Dual loop pull cord
- High contrast labels
- Rlue indication

Benefits:

- Quick and simple installation, with limited cabling requirements
- High contrast printing for increased visibility
- Tactile braille signage to assist partially sighted people to easily operate the cancel plate







Full System Architecture

| POWER SUPPLY UNIT SPECIFICATION | | |
|---------------------------------|--|--|
| Dimensions: | | |
| Width | 146 mm | |
| Height | 86 mm | |
| Depth | 39 mm | |
| Electrical Specification: | | |
| Mains | 230V ac +10% -15% | |
| Output | 12V dc (nominal) | |
| Physical: | | |
| Material | Flame retardant Poly Carbonate +ABS -Blend | |

| OVER DOOR INDICATOR SPECIFICATION | | |
|-----------------------------------|--|--|
| Dimensions: | | |
| Width | 87 mm | |
| Height | 87 mm | |
| Depth | 31.5 mm | |
| Electrical Specification: | | |
| Operating Voltage | 12V dc (nominal) | |
| Physical: | | |
| Material | Flame retardant Poly Carbonate +ABS -Blend | |

| CANCEL BUTTON SPECIFICATION | |
|-----------------------------|--|
| Dimensions: | |
| Width | 87 mm |
| Height | 87 mm |
| Depth | 25 mm |
| Electrical Specification: | |
| Operating Voltage | 12V dc (nominal) |
| Physical: | |
| Material | Flame retardant Poly Carbonate +ABS -Blend |

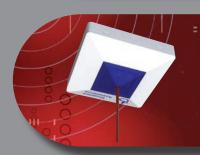
| PULL CORD UNIT SPECIFICATION | | |
|------------------------------|--|--|
| Dimensions: | | |
| Width | 87 mm | |
| Height | 87 mm | |
| Depth | 30.5 mm | |
| Electrical Specification: | | |
| Operating Voltage | 12V dc (nominal) | |
| Physical: | | |
| Material | Flame retardant Poly Carbonate +ABS -Blend | |
| | | |











ORDER CODES

Emergency Assist Alarm Stand Alone Kit

– Supplied with PSU (1x Power Supply Unit,
1x Over Door Indicator, 1x Cancel Button,
1x Pull Cord Unit, 1x Disabled Sticker)

Emergency Assist Alarm Network Version

– PSU not included (1x Over Door Indicator,
1x Cancel Button, 1x Pull Cord Unit,
1x Disabled Sticker) EVCS-TA



4 Way Splitter Unit

The 4 Way Splitter Unit allows up to 4 stand alone disabled toilets to be monitored in one specific area.



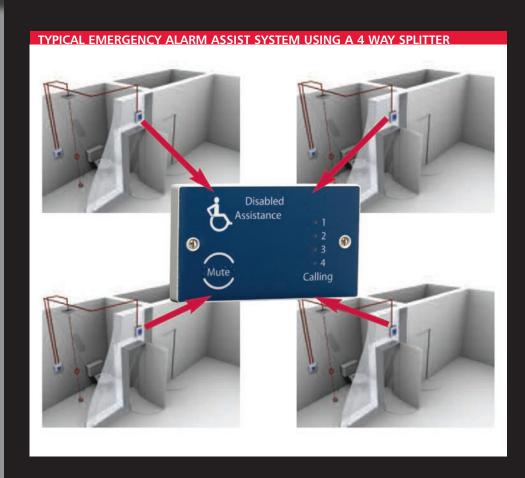
Staff can then at the designated area such as a reception or security desk react to an alarm swiftly and efficiently.

Key features:

- Designed to comply with all regulations and
- High visibility
- More than one 4 way splitter can be used
- Small compact design

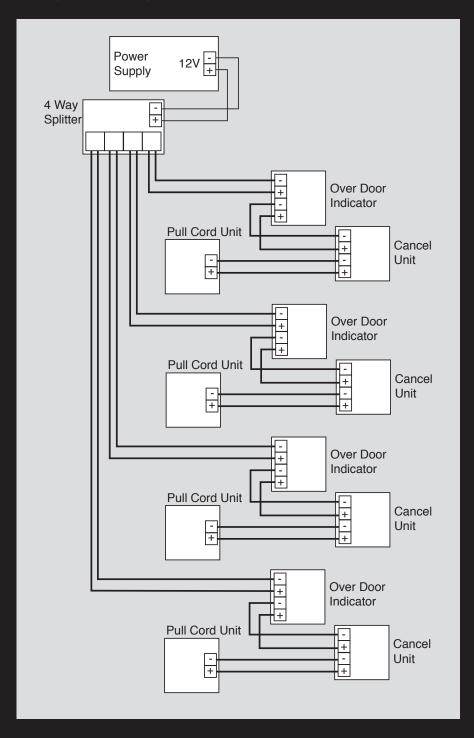
Benefits:

- Up to 4 disabled toilets monitored in one area
- Uses blue LEDs to avoid confusion
- Visibility to remote staffed areas
- No mains or PSU required at each disabled toilet





Wiring Guide Using 2 Core Cable



Full System Architecture

| POWER SUPPLY UNIT SPECIFICATION | | |
|---------------------------------|--|--|
| Dimensions: | | |
| Width | 146 mm | |
| Height | 86 mm | |
| Depth | 39 mm | |
| Electrical Specification: | | |
| Mains | 230V ac +10% -15% | |
| Output | 12V dc (nominal) | |
| Physical: | | |
| Material | Flame retardant Poly Carbonate +ABS -Blend | |

ORDER CODES

4 Way Splitter Emergency Assist

EVCS-TASP4

PSU for use with 4 Way Splitter Emergency Assist EVCS-TASP4-P



EVCS Parts List

| MATERIAL | MATERIAL DESCRIPTION |
|------------------------|---|
| | |
| EVCS COMPACT 5 | |
| EVCS-CMPT | Compact Master Handset Wall Mount |
| EVCS COMPACT 9 | |
| EVCS-CMPT9 | Compact 9 Line Master Exchange Unit |
| EVCS-XC10 | 10 Line Slave Exchange |
| EVCS NETWORK 8 | |
| EVCS-XC | 8 Way Exchange Unit - Charger |
| EVCS-MS | Master Handset Desk |
| EVCS-RM | Rackmount Kit 6U |
| OUTSTATIONS/HANDSETS | |
| EVCS-HFP | Flush Outstation Push Door, Type A |
| EVCS-HSP | Surface Station Push Door, Type A |
| EVCS-HSB | Surface Outstation Type B, Red |
| EVCS-HSBG | Surface Outstation Type B, Green |
| EVCS-HSFSS | Surface Outstation Type B, Stainless Steel |
| VCFHB | Flush Mounting Bezel Type B, Stainless Steel |
| EVCS-HLJ | Loose Handset With Jack Lead |
| EVCS-WJP | Wall Jack Outlet Point |
| EMERGENCY ASSIST ALARM | |
| EVCS-TAP | Emergency Assist Alarm Stand Alone Kit- Supplied with PSU |
| EVCS-TA | Emergency Assist Alarm Network Version- PSU not included |
| EVCS-TASP4 | 4 Way Splitter Emergency Assist |
| EVCS-TASP4-P | PSU for use with 4 Way Splitter Emergency Assist |



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|------|--|
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Literature ref: SMS??