

Features

- **Fully monitored stand alone system**
- **Complies with BS5839 Part 9**
- **Fully addressable**
- **Duplex two way communication**
- **System flexibility**
- **Multiple line conversations**
- **Up to 8 master handsets**
- **Up to 256 outstations**

Overview

The Emergency Voice Communications System (EVCS) is 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.

Designed to comply with BS5839 Part 9 2003 the EVCS is a fixed, secure, bi-directional fully-duplex voice communication system, to assist fire fighters within high rise buildings or large sites where radio communication may not be possible. Where both a fire telephone and disabled refuge system are fitted to a building BS 5839 Part 9 specifies these should form a single system.

The EVCS consists of three main functions; the master handset (EVCS-MSM), the exchanges units (EVCS-XC), and outstations (type A or type B as appropriate).

In understanding the needs of the end-user the system offers operational benefits that ensure ease of use:

- Multiple line conversations, system not limited to one outstation at a time.
- Address book operation allows outstations to be dialled by name.
- System flexibility allows additional outstations to be added at any stage.
- Full fault monitoring ensures no fuss maintenance and operation.



EVCS Emergency Voice Communication System Data Sheet



System Design and Planning

Control of EVCS is simplicity itself, the master handset has a clear four 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.

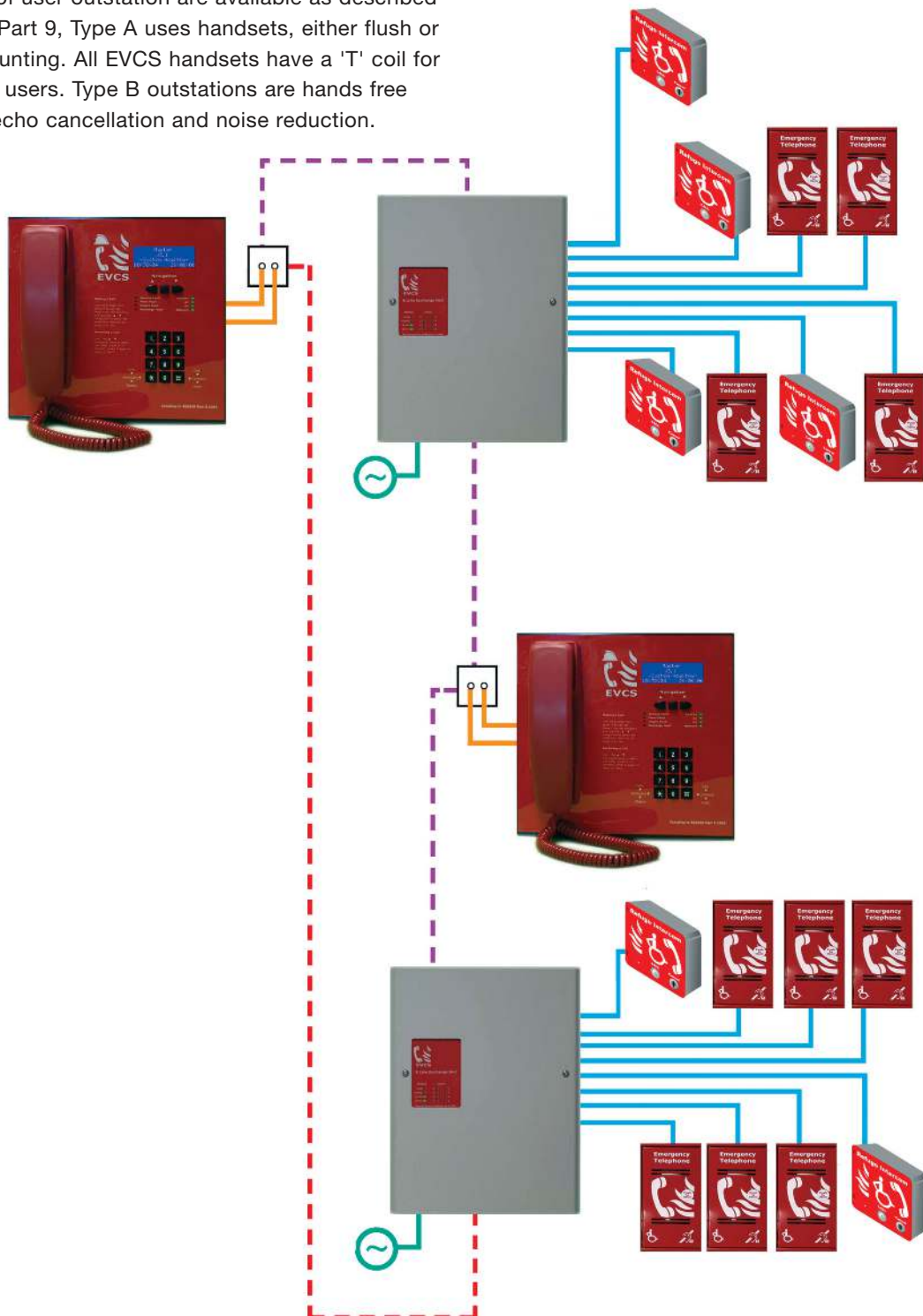
Each Exchange unit sits on a data highway and is locally powered, with internal battery backup from a monitored, maintained sealed lead acid battery. Up to eight lines can be connected to each distributed exchange, and each line can have up to four phones (BS5839 Part 9 recommends one phone per line, however this facility is required in some retro fits).

Two types of user outstation are available as described in BS5839 Part 9, Type A uses handsets, either flush or surface mounting. All EVCS handsets have a 'T' coil for hearing aid users. Type B outstations are hands free units with echo cancellation and noise reduction.

The network comprises a line or ring of 2 off four core fire rated cables (200m between exchanges in MICC or 500m on FP200 type cables). A ring topology is recommended by 5839 Part 9.

In the event of mains AC failure, the system shall automatically switch to an integral fully monitored DC power supply. This is sized to support the system for a minimum of 24 hours in standby conditions (quiescent) and for a further 30 minutes full operation.

In line with the recommendations of BS5839 Part 9 multiple master consoles can be fitted to EVCS with lockouts operating when a console is in use.



Specification



Master Handset

The backlit display shows the calling outstation name in plain text (programmable). Calls can be made to outstations by either selecting the calling outstation, dialling the number of a required outstation or choosing the required outstation name from a text-dialling directory.

This shall be supplied as a metal console suitable for desk or wall mounting, with the following features:

Dimensions

Height: 268mm Width: 275mm Depth: 85mm
Weight: 1.4kg (no batteries)

Electrical

Monitored handset

Full duplex communications

Large high-contrast display:

- 4 x 20 character
- 16 Character programmable name per outstation

12 Key quick dial keypad:

- Directory dial function

Features

Full system event log:

- Fault and configuration
- Remote Powered
- Optional 19" rack mounting kit available
- BS 5839 part 9 2003 compliant

Status LEDs:

- 4 x Fault LEDs (general, panel, supply, exchange)
- 4 x Status LEDs (healthy, AC, DC, network)

Controls up to 32 EVCS-XC exchange units:

- Up to 256 outstations
- Maximum of 8 EVCS-MSM master handsets on a system

8-Way Exchange Unit

This shall be supplied as a metal wall-mounting enclosure, with the following features:

Dimensions

Height: 296mm Width: 210mm Depth: 80mm
Weight: 1.6kg (no batteries)

Electrical

Fully monitored connections

(data, phantom power) Mains powered:

- Integrated monitored charger and batteries
- Power feed for EVCS-MSM and outstations
- Full duplex audio transmission
- Serial port for configuration or updates

Voltage free contact output:

- Fault or "system in use" indication

Features

Controls up to 8 independent lines:

- Up to 8 outstations per exchange

Dual network ports:

- Ring network (as per BS 5839 part 9) or series connection
- BS 5839 part 9 2003 Compliant

Status LEDs:

- 10 x Fault LEDs (general, supply, outstation lines 1 – 8)
- 2 x Status LEDs (AC, DC)
- Compact design suitable for riser mounting



Type A Outstations

This shall be supplied as a metal wall-mounting enclosure.

Dimensions

- Height: 300mm
- Width: 150mm
- Depth: 80mm
- Weight: 1.6kg (no batteries)

Electrical

Fully monitored connections:

- DC open, DC short and earth fault

Features

Compact design:

- Flush or Surface mounting
- Type A as per BS 5839 part 9 2003
- 20mm cable gland facilities
- High volume ringer

Status LED:

- Flashing when ringing
- Dimly lit to indicate surveillance active
- Telephone type handset:
- Automatic dialling to EVCS-MSM when 'off hook'
- Telecoil for hearing impaired users
- Magnetic push catch or lockable door



Electrical

Fully monitored connections:

- DC open, DC short and earth fault

Features

Compact design:

- Surface mounting
- Type B as per BS 5839 part 9 2003
- 20mm cable gland facilities
- High volume ringer

Status LED:

- Flashing for line location
- Continuously lit to indicate call confirmation

'Hands-free' communications:

- Push button dialling to EVCS-MSM
- Echo cancellation
- Noise reduction
- Induction loop output for hearing impaired users
- Push button cancel
- Braille Signage

Part Numbers

EVCS-MSM	Master Handset Desk/Wall Mount
EVCS-XC	8 Way Exchange Unit
EVCS-RM	6U Rack mount Kit for Master Handset
EVCS-HFP	Flush Outstation with Push Door - Type A
EVCS-HSL	Surface Outstation with Locking Door - Type A
EVCS-HSP	Surface Outstation with Push Door - Type A
EVCS-HSB	Surface Outstation - Type B

Type B Outstations

This shall be supplied as a metal wall-mounting enclosure

Dimensions

- Height: 133mm
- Width: 133mm
- Depth: 45mm
- Weight: 1.1kg (no batteries)



Fire System Compatibility

Morley-IAS is fully committed to offering practical solutions and supporting products that enhance your buildings control systems.

Other Supporting Products Include

- Morley-IAS Intelligent Public Address and Voice Alarm Equipment
- Morley-IAS ZX range of networkable analogue addressable Fire Alarm Panels
- Morley-IAS Dimension Analogue Addressable Panels
- Morley-IAS Horizon Conventional Panels
- Morley-IAS Extinguishing Panels

For further details on these or any other Morley-IAS product please contact your local distribution point, Morley-IAS Regional Sales Manager or via our contact details.

Morley-IAS by Honeywell a real choice for fire solutions, committed to supporting our device partners.



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