



# EMERGENCY VOICE EVACUATION SYSTEMS (EVCS) SYSTEM EXPANDER PANEL



**8-LINE  
SYSTEM EXPANDER PANEL**

## DESCRIPTION

All Technoswitch Emergency Voice Communications Systems (EVCS) are designed to comply fully with the requirements of BS 5839-9:2011 for use as a Fire Telephone system (FT), Disabled Refuge system (DRS), or as a combined system when both Fire Telephones and Disabled Refuge call points are required.

An EVCS is a fixed, secure, bi-directional, full duplex voice communication system to assist fire fighters during emergencies in high-rise buildings or large sites where radio communication cannot be guaranteed to work due to interference from the fire corona.

The Technoswitch VS-EVS-EX8 System Expander Panel can accept up to eight lines of Outstation (Type A Fixed Phones, Type B Refuge Hands-free Points, Emergency Assist Alarm point or jack points) as required.

Lines auto identify by flashing Red for EVCS calls, Blue for assist calls or flashing Green for connected calls as detailed in BS 5839-9:2011.

The VS-EVS-EX8 has built-in networking, allowing it to form one of the 64 panels on a Technoswitch network installation, allowing a total of 512 Outstations to be accommodated. Each panel on the network can be a Master Station or VS-EVS-EX8 System Expander.

The display on the front of the VS-EVS-EX8 gives the current call or fault status of each line of the local panel, aiding fault finding.

The VS-EVS-EX8 is a self contained enclosure housing a display, one to four dual line cards, an EN 54-4:A2 2006 power supply and battery charger and is surface mounted – the small form factor makes it ideal for locating in electrical risers.

The case is made from powder coated zintec, with 14x 20 mm cable knock outs provided for all necessary cables as well as space for the single 12 V backup battery required.

The System Expander Panel is configured from any Master Station, using a spreadsheet (Excel and Open Office) and installed using the MMC card.

Each Outstation has three labels, one for Emergency Assist, one for EVCS and one for Fault text, each label is two lines of 20 characters. Each Master station can be programmed to answer specific Outstations on the VS-EVS-EX8, and these can differ from day to night.

## FEATURES

- Fully Compliant to BS5839-9
- Integrated Assist Call with acknowledge meeting BS8300
- 1.5 A EN 54-4:A2 PSU
- Full Duplex Operation
- Wall Mount Enclosure
- Lockable Handset Cover
- Expandable from 2 to 512 Lines
- Built-in Networking

## APPROVALS

- Fully Compliant to BS 5839-9: 2011
- EMC: EN 55103-1, EN 55103-2
- LVD: EN 60065
- Product Family: BS 5839-9, BS 9999, BS 8300



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## SPECIFICATIONS

### Power Supply and Charger

AC Input	230 V AC +/- 10% 50/60 Hz
Internal Supply	5 V, 16 V, 27 V DC
Supply	Monitored Open, Short, Fuses, High Impedance
Protection	Deep Discharge, Short, Thermal
Battery Type	1x 12 V 7 AH VRSLA
Mains Fuse	240 V 1 A HRC
Battery Fuse	750 mA PTC
Charge Current	400 mA

### Inputs

Lines	2-8 in 2 line blocks
Remote Enable	Short to use
End-of-Line	10K $\Omega$

### Outputs

Number	2: Fault & In Use
Type	Volt Free Relay
Contact	30 V DC 1 A

### Controls

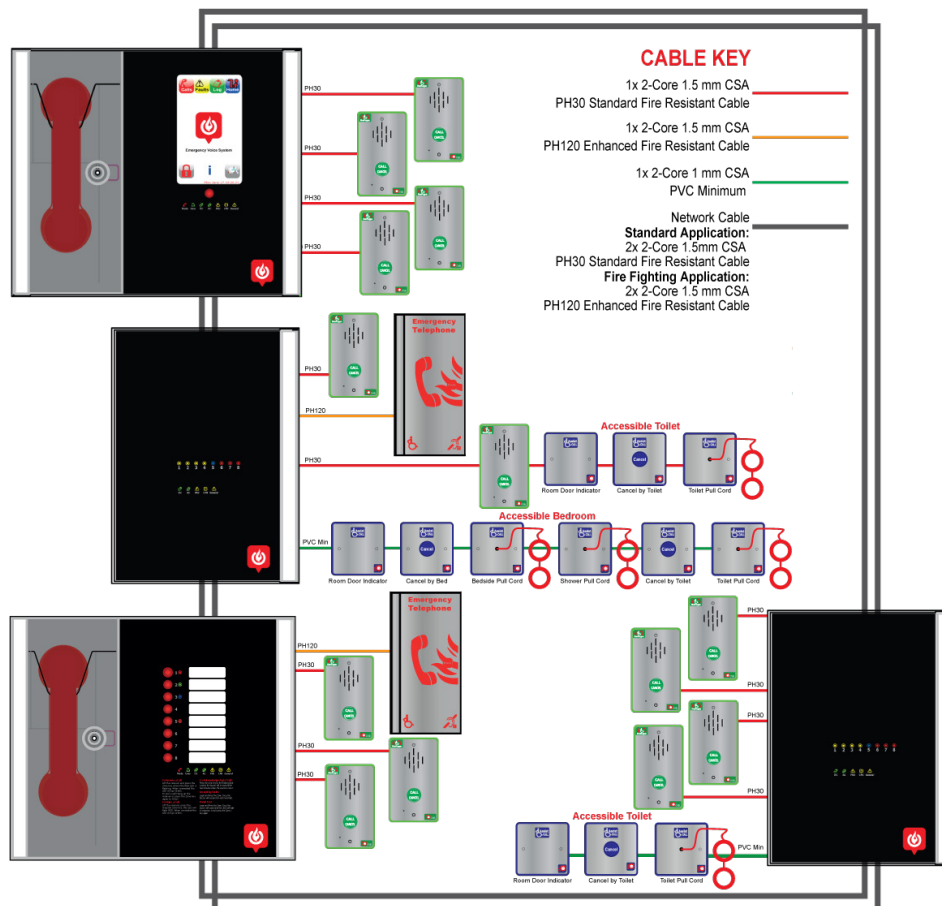
Line LEDs	8: RGB
State LED	1: RGB indicator
Fault LEDs	3: PSU, System, General
Supply LEDs	2: AC, DC present

### Network Cables

Type	PH120 Enhanced Fire Resistant Cable
Cores	2x 2-core 1 mm or 1.5 mm
Distance	500 m

### Dimensions

Height	300 mm
Width	220 mm
Depth	95 mm
Weight	3.0 kg



## ORDERING INFORMATION

### Product Code Product Description

VS-EVS-EX8 Network 8-line System Expander Panel

Please refer to the current Technoswitch Price List for all spares and peripherals.

• **DISCLAIMER:** Although the contents of our product literature have been prepared with the greatest care, Technoswitch can accept no liability whatsoever for any direct or indirect damages of any kind that may arise due to either errors or omissions in them, or amendments to products or other specifications following publication.

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