

EVX-EX8 - System Expander Panel

- Fully Compliant to BS 5839-9:2021
- Integrated Assist Call with acknowledge meeting BS8300
- 1.5A EN54-4:A2 PSU
- Full Duplex operation
- Wall mount enclosure
- Full Status indication
- Inbuilt networking



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 EVX-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 in Far East and Middle East applications) 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 5839-9:2021.

The EVX-EX8 has inbuilt networking allowing it to form one of the 64 panels on a EVX network installation allowing a total of 512 outstations to be accommodated. Each panel on the EVX network can be a master station or EVX-EX8 system expander.

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

Technical Specification

Power Supply and Charger

AC input	230VAC +/- 10% 50/60Hz
Internal supply	5V, 16V, 27V DC
Supply	Monitored Open, Short, Fuses, High Impedance
Protection	Deep discharge, Short, Thermal
Battery type	1 x 12V 7AH VRSLA
Mains fuse	240V 1A HRC
Battery fuse	750mA PTC
Charge current	400mA

Inputs

Lines	2-8 in 2 line blocks
Remote enable	Short to use
End of line	10K Ω

Outputs

Number	2, Fault & In use
Type	Volt free relay
Contact	30V DC 1A

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	Enhanced*
Cores	2 x 2 core 1mm or 1.5mm
Distance	500m

Standards Compliance

EMC	EN55103-1, EN55103-2
LVD	EN60065
Product Family	BS 5839-9:2021, BS9999, BS8300

Dimensions (mm)	300(H) x 220(W) x 95(D)
Weight	6.5Kg

*Refer to BS 5839-9:2021 for exceptions

The EVX-EX8 is a self contained enclosure housing a display, one to four dual line cards, an EN54-4:A2 2006 power supply & battery charger and is surface mounted, the small form factor makes it ideal for locating in electrical risers.

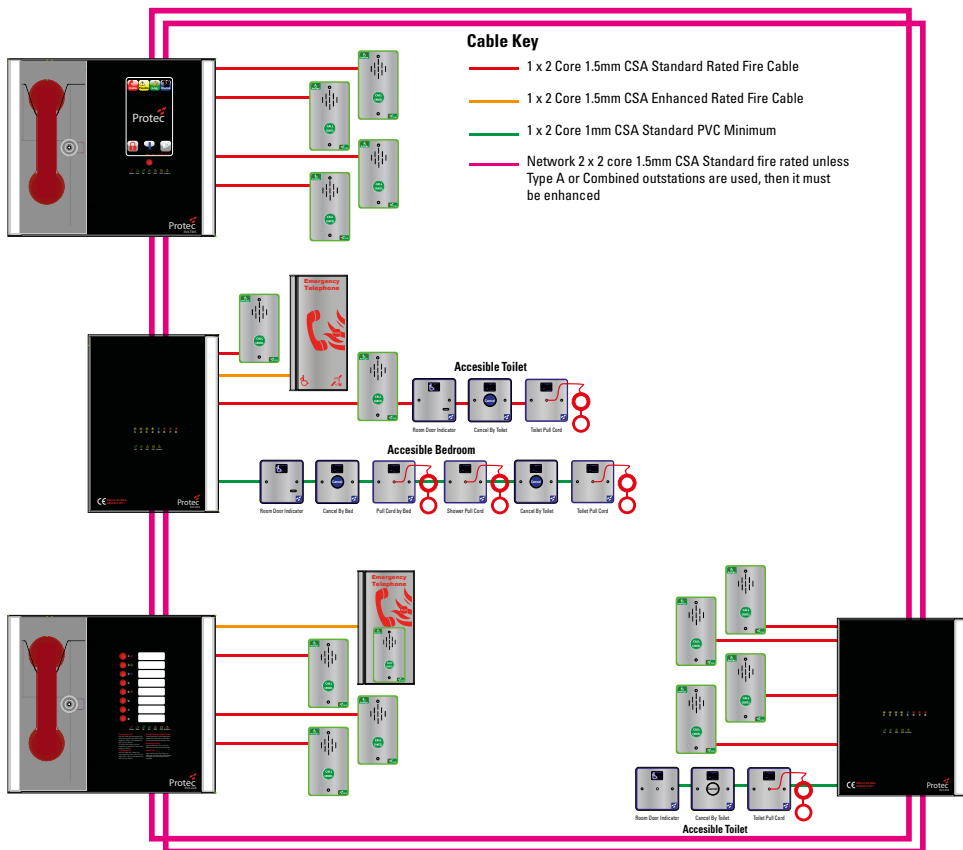
The case is made from powder coated zinc, with fourteen 20mm cable knock-outs provided for all necessary cables as well as space for the single 12V VRSLA backup battery required.

The system expander panel is configured from any master station on the system using a spreadsheet (excel or open office) and installed via an 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 twenty characters.

Each Master station can be programmed to answer specific outstations on the EVX-EX8, and these can differ from day to night.

Typical Schematic



Company Policy is one of continuous improvement, we reserve the right to change specification without prior notice

Protec House, Churchill Way, Nelson, Lancashire, BB9 6RT

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Tel: +44(0)1282 717171 Web: www.protec.co.uk Email: sales@protec.co.uk