



LEXICOMM

SYSTEM EXPANDER PANEL



All Lexicomm Emergency Voice Communications Systems (EVCS) are designed to comply fully with the requirements of BS 5839-9:2021 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.

- Fully Compliant to BS 5839-9:2021
- Integrated Assist Call with acknowledge meeting BS 8300-2:2018
- Integral 1.2A PSU
- Full Duplex operation
- Wall mount enclosure
- Full Status indication
- Inbuilt networking

Overview

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 plasma.

Site Expansion

The Lexicomm ViLX-EX8 system expander panel works in conjunction with the TMS master station to provide additional lines. Each system expander panel can accept up to eight lines of outstation. Typically it is mounted in electrical risers adjacent to stair cores where its compact size assists with riser layouts.

Outstation range

The full range of Lexicomm outstations are compatible and include Type A outstations, Type B Outstations, Type C outstations and jack points for use in far and middle east applications.

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

Networking

The ViLX-EX8 has integral networking so does not require an additional network card. Lexicomm network is a powerful system with capacity of 64 panels, giving a large system maximum of 512 outstations. This would be a mixture of touch screen master stations and system expander panels.

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

Product Description

The Lexicomm ViLX-EX8 is a self contained enclosure housing a display, four dual line cards, power supply & battery charger and is surface mounted, the compact enclosure makes it ideal for locating in electrical risers.

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

Configuration

The system expander panel can be configured via the touch screen master engineering menus. Alternatively the configuration spreadsheet can be accessed and loaded via the mmc card on the touch screen master. Site wide configuration via a single master station is standard.

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 ViLX-EX8, and these can differ from day to night.

Technical Specification

DETAILS	VILX-EX8
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	10KΩ
OUTSTATION CABLES	
Type	Standard* / Enhanced
Cores	1x 2 core radial 1mm or 1.5mm
Distance	500m from master station/ panel
OUTPUTS	
Number	2, Fault & In use
Fault Relay	1x Volt free NC, Com 30VDC 1A

In Use Relay	1x Volt free NO, Com 30VDC 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	Standard* Enhanced
Cores	2 x 2 core loops, 1mm or 1.5mm (2c Data, 2c Audio)
Distance	500m max between panels
EMC	EN 55035:2017+A11:2020 EN 55032:2015+A1:2020
LVD	EN IEC62368-1:2020+A11:2020
Product Family	BS 5839-9:2021 BS 9999:2017 BS 8300-2:2018
PART NUMBER	
System Expander Panel	ViLX-EX8
DIMENSIONS	
Height	300mm
Width	220mm
Depth	95mm
Weight	3.0Kg
*Refer to BS 5839-9:2021 for exceptions	

