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.

Simple set up, no software

Repeater compatible

Fully Compliant to BS 5839-9:2021

Integrated Assist Call with acknowledge meeting BS 8300

1.2A Integral PSU

Full Duplex operation

Wall mount enclosure

Lockable handset cover

Expandable from 2 to 8 lines

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.

Repeater compatibility

The LX228N range of master stations is specifically designed where a repeater or 2nd master station is specified. They provide a simple solution with integral networking capability. They can provide a small network of 2 panels with lines split as 8-0, 6-2, or 4-4 ratio.

Note maximum of 8 lines total.

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.

Emergency Assistance Alarms

The Assist Call range of emergency assistance alarms is fully compatible. It has become very popular to add these devices as an integrated system. This has several benefits namely:- fault monitored wiring, fully line powered (No mains supply), battery back-up via the master station.

Assist Call Acknowledgment

BS 8300 requires that audible and visual feedback should be provided to indicate that, when the alarm has been operated, the emergency assistance call has been acknowledged and actioned. Assist Call meets this requirement and will return to alarm if not reset within two minutes.

Larger sites

The LX228N range has built in networking, so can form part of Lexicomm network on campus style sites.. A Touchscreen Master Station (ViLX-TMS-W-8) is required as the site master. Note the LX228N master can only answer local calls and cannot be used as a site master.

Product Description

The Lexicomm LX228 is a self contained enclosure housing a master handset, one to four dual line cards, power supply & battery charger and can be surface or flush mounted (using the ViLXCBZ Bezel).

The case is made from powder coated zintec, with a smoked perspex door covering the handset. 20mm cable knock-outs are provided for all necessary cables as well as space for the backup 12V VRSLA battery.

The master station is microprocessor controlled, but requires no programming on site; the panel is fitted with end of line resistors which are simply moved to the end of line when an outstation is connected.

Lines can have an accessible toilet and Type B refuge point on the same line, as the front panel RGB indicators identify which is calling, with refuge overriding emergency assist calls as required by BS 5839-9:2021.

Technical Specification

DETAILS	VILX-228 N
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	1 x 2 core radial 1mm or 1.5mm
Distance	500m from master station
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	
Buttons	8 Zone keys
Zone LEDs (x8)	RGB Status LEDs
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
STANDARDS COMPLIANCE	
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

DIMENSIONS

	Panel	Bezel	Cut-out
Height	300mm	350mm	305mm
Width	350mm	400mm	355mm
Depth	95mm	1mm	85mm
Weight	4.2kg		

*Refer to BS 5839-9: 2021 for exceptions

Ordering Information

PART CODE	DESCRIPTION
ViLX-228N-0	0 Line Master Station
ViLX-228N-2	2 Line Master Station
ViLX-228N-4	4 Line Master Station
ViLX-228N-8	8 Line Master Station

LX228 Repeater Network Schematic

Repeater Station

Master Station

Cable Key

1 off 2 Core 1.5mm CSA
Standard Rated Fire Cable

1 off 2 Core 1.5mm CSA
Enhanced Rated Fire Cable

1 off 2 Core 0.22mm CSA
Standard LSF (alarm Cable) Minimum

Network 2 off 2 core 1.5mm CSA
Standard fire rated unless
Type A or type C outstations
are used, then it must be enhanced

Accessible Toilet
Room Door Indicator — Cancel By Toilet — Toilet Pull Cord

Accesible Bedroom
Room Door Indicator — Call Cancel By Bed — Shower Pull Cord — Cancel By Toilet — Toilet Pull Cord

VIOD00203/REV4/JK