FIRE TELEPHONES & DISABLED REFUGE

"Sound Engineering for 60 years"

Offices

Leisure Centres

Schools

Theatres

Stadia

Museums

Railway Stations

Factories

Airports

Corporate HQ

Arenas

Conference Centres

Ferries

Cruise Ships

Hotels

Magistrates Courts

MOD

Call Centres

Multi Building Sites

Retail

County Courts

Shopping Centres

EmerCall 8 Line Exchange

EmerCall 8 Line Exchange - 2572/002

The ***EmerCall*** Emergency Voice Communication System (EVCS) is a fixed, secure, bi-directional, full duplex voice communication system to assist fire fighters in an emergency in high rise buildings or large sites where radio communication may not work, and covers the operation of both fire telephones and disabled refuge systems. Where both systems are fitted to a building BS5839 Part 9:2003 specifies these should form a single system.

The ***EmerCall*** EVCS comprises of three functional blocks, the master handset (***EmerCall*** 2572/001), the eight line exchanges (***EmerCall*** 2572/002) and outstation handsets (***EmerCall*** 2572/003, 004, 005 & 006), with the quantities of these basic units being adjusted to suit the application.

- BS5839 Pt 9:2003 compliant
- Controls up to 8 independent lines
- Mains powered
- Built in monitored 1A charger for 12V SLA batteries
- Full duplex audio
- Up to 32 exchanges per system
- Full line monitoring
- Serial port for configuration or updates
- Dry contact for fault or "in use" indication
- Dual network ports
- Provides remote power for ***EmerCall*** Master Handset 2572/001
- Twelve status LEDs
- Compact design for riser mounting

Fire Telephones & Disabled Refuge

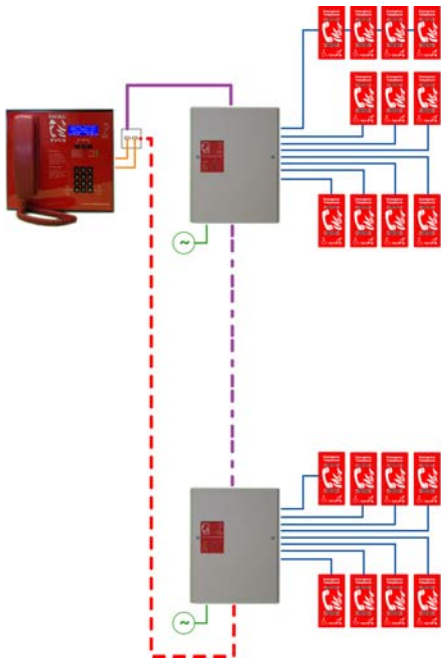
Audix Systems
Station Road
Wendens Ambo
Saffron Walden
Essex CB11 4LG

Tel: +44 (0)1799-540888
Fax: +44 (0)1799-541618
e-mail: info@audixsystems.co.uk
web site: www.audixsystems.co.uk

Assessed to ISO 9001: 2000
Certificate number 018

SPECIFICATION

EmerCall 8 Line Exchange - 2572/002



Using network communications combined with subscriber line telephone techniques, ***EmerCall*** provides large scale cable savings, while not requiring a dedicated rack room to house a central exchange.

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 is fully monitored for Open, Short or Earth faults.

The network comprises a line or ring of 8 cores (see schematic), each leg can be up to 500m depending on cable type. A ring topology is recommended by BS5839 pt9:2003.

Line cables consist of a single two core enhanced cable, either soft skin types or MICC and only 1mm^2 CSA is required.

Up to 32 ***EmerCall*** 2572/002 Line Exchanges can be fitted to an ***EmerCall*** system giving a maximum system size of 256 independent lines.

The compact case is made from powder coated Zintec and is fitted with 20mm cable knockouts for all cables needed, and also provides space for the system backup 12V SLA battery.

Physical:

Height:	296mm
Width:	210mm
Depth:	80mm
Weight	1600g
Material:	Zintec, texture powder coated RAL 7032

Power Supply:

Voltage:	230V AC±20%
Current:	11mA
Battery:	12V SLA 3.2AH
Charger:	1A controlled impedance
Monitoring:	Open, short & high impedance cell

Processing:

Architecture:	AVR RISK
Clock:	16MHz
Memory:	4K Ram 20K EEProm 128K Flash
Monitoring:	125ms Asynchronous Watchdog Checksum on EEProm & Flash

Network Cables:

Grade:	Enhanced
Cable (per leg):	1 off four pair
or	2 off four core 1mm^2 CSA soft skin
or	4 off 1 pair MICC twisted
Distance (per leg):	500m soft skin types, 300m MICC twisted
Monitoring:	Data & Phantom Voltage

Outstation Handset Cables:

Grade:	Enhanced
Cable (per Line):	1 off 2 core (twisted for MICC)
Distance (per leg):	500m soft skin types, 300m MICC twisted
Monitoring:	DC open, short & earth

Indication & Controls:

Fault LEDs	9 off yellow (general, panel, PSU, 8 lines)
Status LEDs:	3 off green (AC & DC), healthy
Settings:	8 way DIP switch

Standards Compliance:

EMC:	EN55103-1, EN55103-2
LVD:	EN61000-3-2, EN61000-3-3, EN60950
Product Family:	BS5839-pt9, BS5588-pt8

Fire Telephones & Disabled Refuge

Audix Systems
Station Road
Wendens Ambo
Saffron Walden
Essex CB11 4LG

Tel: +44 (0)1799-540888
Fax: +44 (0)1799-541618
e-mail: info@audixsystems.co.uk
web site: www.audixsystems.co.uk