

Emergency voice communication system

Emergi-Voice Communication

The Emergi-Voice product range extends from fire telephone and disabled refuge wired communication system to standalone voice alarm sounders.

Telephone communication

The Emergi-Voice specialist telephone communication system is designed for 'fire telephone' or 'disabled refuge' use with a particular application to assist the fire-fighting service in conditions where normal radio communication might be impaired.

The system is compliant with BS 5839-9:2003. Under the code, fire telephone and disabled refuge systems will form a single system if both are to be fitted in a building.

Emergi-Voice is a fixed full duplex (bi-directional) secure communications system.

Disabled refuge

A disabled refuge is a secure location designated for people who have impaired mobility, who would be expected to need help to leave the building or who may impede the general flow of evacuation from the building. This applies to anyone who cannot walk 200m without stopping, typically wheelchair users and the walking infirm.

Telephone system features and benefits

- BS 5839-9:2003 compliant
- Wired as a network
- Wired with CWZ category fire cables
- Up to 300 lines per system
- 8 lines per exchange
- Up to 32 exchanges per network
- 1 outstations handset per line for new systems for compliance
- Up to 8 master handsets
- Full fault monitoring on all critical paths with a 99-event fault log in memory
- Battery maintained
- Maximum distance to outstation handsets on spurs – 500m
- Maximum distance between exchanges – 500m (e.g.: For a 3 exchange system the total network cable length = 1500m)

The system comprises a master handset controller, an 8-line exchange and a set of outstation handsets (either type A or type B).



Master handset controller

Master handset controller

A wall or desk mounted unit with operational and control features including fault monitoring, menu driven navigation and an LCD display.

Telephone exchange

A wall mounted unit with 8 lines to outstations.

Outstations (Section 11 of BS 5839 Pt 9:2003)

Type A is a telephone handset in a hinged enclosure, for evacuation or fire fighting use (sec 11.1.2a).

Alternate type A is an IP66 rated enclosure. Type B is a hands free set in a vandal resistant enclosure, for disabled refuge (sec 11.1.2b).

Outstation type A

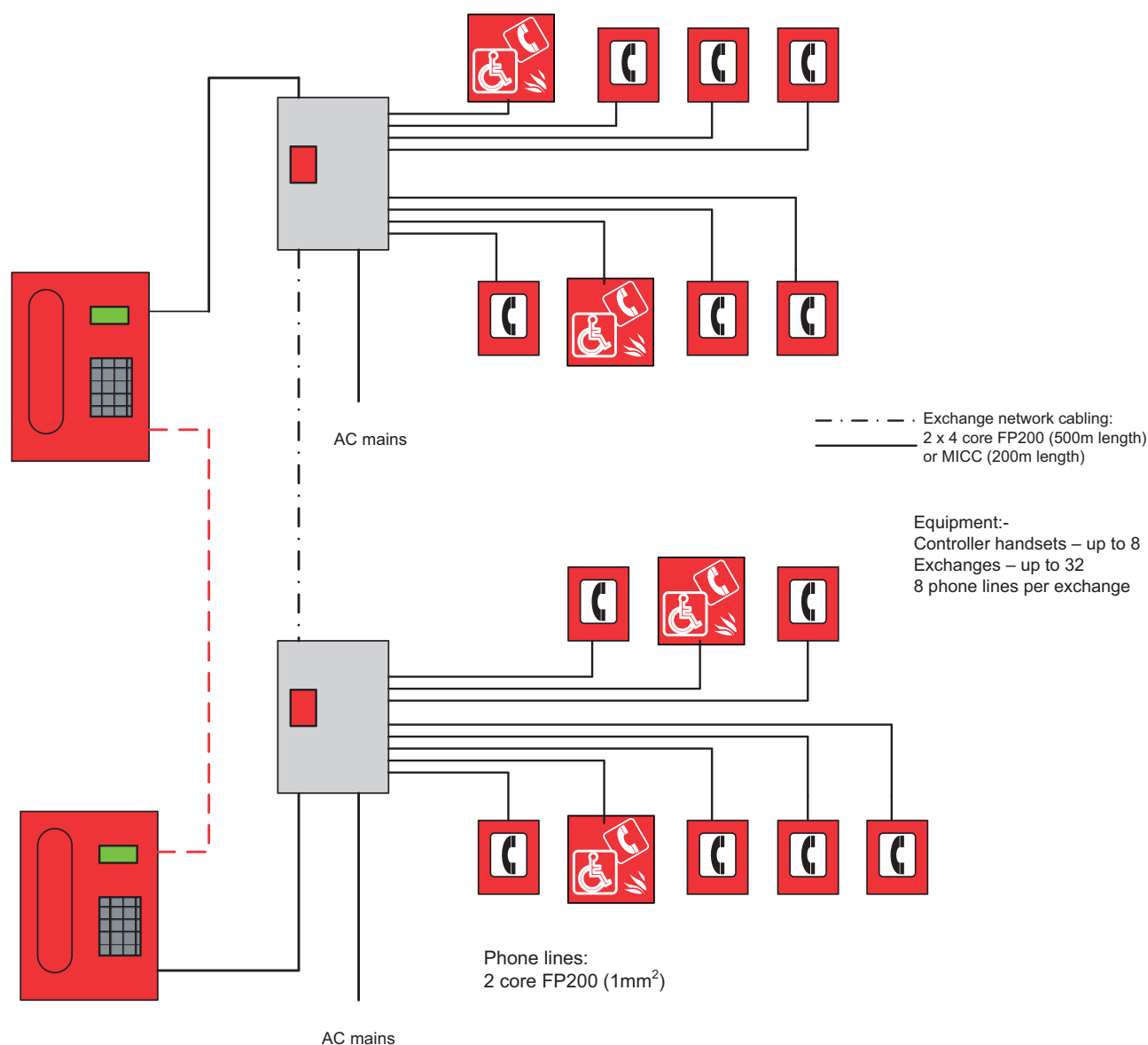


Outstation type B



Typical layout

The diagram below illustrates the typical layout of a fire telephone system with two handset controllers networked together.



Emergi-Voice product selection

STANDARD ORDER CODE	DESCRIPTION
FEVC-MHC	Monitored master handset
FEVC-X8	Exchange unit: 8 line
FEVC-OA1	Type A outstation handset, flush with push door
FEVC-OA2	Type A outstation handset, flush with locking door
FEVC-OA3	Type A outstation handset, flush with push door in stainless steel
FEVC-OAS1	Type A outstation handset, surface with push door
FEVC-OAS2	Type A outstation handset, surface with locking door
FEVC-OAS3	Type A outstation handset, surface with push door in stainless steel
FEVC-OAS66	Type A outstation handset, surface, IP66 enclosure
FEVC-OB1	Type B outstation, hands-free

For a particular project scheme design please contact our Technical sales department.

Voice enhanced sounders

The Emergi-Voice range includes sounders and sounder beacons for use with fire panels.

Two types of voiced enhanced sounders are available. One for general use and an industrial unit to meet the requirements of gas extinguishing systems.

Sounders are suitable for 'first fix' installations or retrofitting into existing systems.



FAKV-4R

Multi-message option

In larger premises, where staged evacuation might be needed a multi-message option is available to give alert and evacuation messages. Up to four messages can be sent via an interface unit which monitors the fire panel sounder circuit outputs.



FAKV-9SR

Features:

- Multi-message alarm giving 3 gas release warning messages
- USB connection, that enables user defined messages to be downloaded (WAV format) from a PC
- Can be interfaced with other units to permit warning messages to be triggered in sequence

Voice enhanced sounder FAKV-4R

An open area type alarm, for industrial and general use, which gives a fire alarm tone (selectable), prior to a message. Features:

- Single evacuation message selectable from three pre-programmed options

SPECIFICATION

Voltage range	24Vdc	
Sound level	Sounder	Sounder beacon
Current draw @ 24Vdc (tone dependent)	26mA	32mA
Sound output at 1m (dBA)	106	106
No. of tones	32	
Operating frequency	400 to 2850Hz	
Operating temperature	-20 to +55°C	
Wiring & polarity	2 wire supply, polarity sensitive	
Cable entry	2 x 20mm	
Construction	Flame retardant polycarbonate	
Ingress rating	IP65	
Dimensions ø h (mm)	100 x 81 (97.5 x 104 deep base)	
Weight g	250	
Standards	EN60950	

STANDARD ORDER CODE

FAKV-4R	Sounder, red shallow base
FAKV-4RDB	Sounder, red deep base
FAKV-4W	Sounder, white shallow base
FAKV-4WDB	Sounder, white deep base
FAKV-8R	Sounder beacon red base, red lens
FAKV-8RDB	Sounder beacon red deep base, red lens
FAKV-8R	Sounder beacon white base, clear lens, red LED
FAKV-8RDB	Sounder beacon white deep base, clear lens, red LED

DESCRIPTION

Voice enhanced sounder FAKV-9SR

A heavy duty alarm device specifically for use with gas extinguishing systems. Three stages of alarm are provided with a warning message at each stage. The beacon option can be configured to operate with one or all stages of alarm.

SPECIFICATION

Voltage range	24Vdc	
Sound level	Sounder	Sounder beacon
Current draw @ 24Vdc (tone dependent)	30mA	48mA
Sound output at 1m (dBA)	110	110
No. of tones	64	
Operating frequency	Tone table	
Operating temperature	-20 to +55°C	
Wiring & polarity	2 wire supply, polarity sensitive	
Cable entry	5	
Construction	Flame retardant polycarbonate	
Ingress rating	IP66	
Dimensions hwd (mm)	166.5 x 166.5 x 149.5 (213.5 depth - sounder beacon)	
Weight g	700 (sounder beacon 800)	
Standards		

STANDARD ORDER CODE

FAKV-9SR	Sounder, red
FAKV-9SBR	Sounder beacon, red base, red lens, LED beacon

DESCRIPTION