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EN54 Voice Alarm System - C500/3+1

EN54 Voice Alarm system

EN54-16 EN54-16 Certified



- EN54 certified voice alarm system
- Complete system in a box
- Extend with networking capabilities
- Wide range of features
- Easy to install and operate
- Ideal for schools and buildings where safety is of critical importance

DESCRIPTION

The C500 EN54 voice alarm system is ideal for schools and buildings where safety is of critical importance. The system supports system in a box concepts that gives you the benefits of a compact EN54 installation. In addition you can extend your system by networking of modules to grow bigger systems.

SPECIFICATIONS

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CAPACITY - SINGLE MODULE

Number of zones	6
Total output power	600 watt (420W RMS continuous)
Power amplifiers	6 x 100W (2 amplifiers can be bridged to 1 x 200W)
Standby amplifier	2 x 100W (or bridged to 1 x 200W)

LOUDSPEAKER LINE

Monitoring	20 kHz AC monitoring with EOL module, Short/open/impedance monitoring
Loopdrive monitoring	DC monitoring with short circuit isolators (EN54-17) Short/open/earth leakage
Loudspeaker type	100 volt

VOICE MESSAGES

Storage	16 audio files x 1 minute
Message player	6 simultaneous local playbacks

CONTROL AND INDICATIONS

General controls	Lamp test button, silence button
General indicators	Power, Evac, Fault (LED)
Fault indications	Power, System, Network and Zone faults
Evac manual control	Evac message, Alert message Silence, Reset Integrated fireman microphone
Zone controls	6 x configurable zone select buttons
Zone indicators	Evac, Fault, Busy (LED)
Fireman microphone	Priority, Electrical monitoring of mic/panel

POWER SUPPLY EQUIPMENT

AC supply	110 - 230 VAC
AC current consumption	Max 5,3 A @ 155 VAC / 2,65 A @ 230 VAC
Inrush current	40 A @ 115 VAC / 20A @ 230 VAC
Power supply protection	Overload current limiting Over voltage shutdown Over temperature shutdown
Battery	
Type	Sealed, rechargeable, lead-acid
Capacity , charging time	10-55 AH, <20h @ 80% capacity
Rated voltage	24 VDC (2 x 12 VDC)
Battery dimension	2 x batteries of max 230x138x207 mm
Battery weight	Max total 32,6 kg

INPUTS AND OUTPUTS

Inputs	
2 x BGM	2 x balanced mono, 22 kΩ impedance
6 x EVACin	Monitored logic inputs, 4,7 - 10 kΩ EOL resistor
1 x SILENCE in	Monitored logic inputs, 4,7 - 10 kΩ EOL resistor
1 x RESET in	Monitored logic inputs, 4,7 - 10 kΩ EOL resistor
8 x GPI	Unmonitored logic inputs (pull down, configurable)
Outputs	
EVAC out	Potential free relay output
FAULT out	Potential free relay output
8 x GPO	Open collector output
6 x loudspeaker out	6 x 100 volt transformer output

AMPLIFIERS

Type	Class D
Protection	Overload shutdown
	Over temperature shutdown
Backup amplifiers	2 x backup channels
Efficiency	80% @ rated power
Output voltage	100 volt RMS
Rated power	100 W per channel / 200 W bridged
Output bandwidth	50 Hz - 20 kHz
SNR	> 80 dB
THD + N	0,1% @ rated power

AUDIO

Frequency response	50 Hz - 20 kHz (BGM)
	100 Hz - 12 kHz (message player, network audio)
Input-output latency	< 10 ms (standalone system)
Digital audio format	24 kHz sampling, ADPCM coding
DSP features	HP/LP filter, Multi-point parametric EQ, Delay

MECHANICAL

Dimensions (HxWxD)	80 x 52 x 28 cm
Packaging (HxWxD)	90 x 60 x 36 cm
Weight without batteries	29 kg
Housing material	Steel / ABS
IP rating	IP30
Mounting	Wall mount

NETWORK SYSTEM

Max number of modules	255
Max number of zones	255
Max capacity	102 kW
Simultaneous calls	2
Simultaneous message playback	16
Local network	
Architecture	Master : 16 slaves
Connections	3 x L-Net port, daisy chain bus
Cabling	X-over FTP CAT6E
Max bus length	250 m (default)
	500m (network extender)
Global network	
Architecture	Peer to peer
Connections	2 x G-Net port
Cabling	X-over FTP CAT6E
Max distance	250 m (default)
	750m (network extender)
	2500 m (fiber extender)