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Audix Kinetic is a complete integrated VA system which has been developed to replace talking sounders in many Voice Alarm applications.

It is supplied in a single wall mount box, which is complete with messages, fire interface, dual 30W monitored amplifiers, power supply, monitored battery charger and the ability to connect non monitored paging and music sources directly.

- BS5839 part 8 compliant
- EN60849 compliant
- Dual 30W 100V line outputs
- 3 messages (65 seconds)
- Emergency microphone input
- Fire Alarm interface (with reset)
- Common fault output
- Paging input
- Operates on CWZ fire cables
- Full fault monitoring
- Battery maintained
- DC monitored speaker lines
- Direct music input
- Music ramping
- Remote music level control
- Wall mounted

The Kinetic unit draws the minimum of current in standby conditions, muting the music when the AC supply fails, enabling the unit to draw a miniscule 60mA quiescent current; enabling the use of 3.2AH commodity SLA batteries for compliance with 5839 pt 8.

Connection to a fire alarm system could not be simpler; Kinetic has independent Alert and Evacuate inputs, which can be directly connected to reverse monitored sounder circuits. Once activated the fire alarm signals need to be de-latched by the reset input. For retrofit systems with relays a protected 24V aux supply is available.

The speaker lines are monitored using a low current DC system, which is continuous, and works with the music playing. Faults reported are open, short and earth faults. Each speaker fitted to Kinetic must have a DC blocking capacitor fitted. The use of DC monitoring allows all cable types (MICC and soft skin) to be used with the system as well as multiple spurs.

Music sources can be plugged directly into the Kinetic and the level of this can be set using a remote DC volume control. When used with a paging microphone, the music "ducks" and restores gently after paging.

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**KINETIC WALL MOUNT
VOICE ALARM SYSTEM**

POWER SUPPLY AND CHARGER

AC input	230V AC+/-10% 50/60Hz
Internal power supply	30V DC
Supply & battery	Monitored open, short, fuses
Protection	Deep discharge, short, thermal
Temperature compensation	Yes
Battery size and type	2 x 12V 3.2.AH
Mains fuse	240V 2A HRC
Battery fuse	5AF 24V blade
Max charge current	1.1A

INPUTS

BGM	
Sensitivity	-6dBV to +2dBV
Remote range	30dB
Remote pot value	30dB

PAGE	
Sensitivity	-6dBV to +4dBV
PTT type	5V to access
Power	+24V nominal

FIRE INTERFACE	
Inputs	3 off isolated +12V to +33V
Outputs	1 relay (open on fault)
Power	+24V nominal

FIRE MICROPHONE	
Audio sensitivity	0dBV balanced
Control inputs	Monitored triggers (PTT, MSG1, MSG2, cancel) 5V active
Power	+24V nominal

SPEAKER CIRCUITS

Circuits	2 off 30W RMS each
Level	100V RMS
Bandwidth	80Hz to 18kHz (-3dB full power)
Distortion	0.1% 20W 27.6V 1% 30W 26V
Monitoring	DC end of line (9k expected)
Capacitor	Typically 2.2uF 250V DC
Fault indication	Short, open, thermal, DC offset
Protection	Short, open, thermal, DC offset

DIMENSIONS

Height	480mm
Width	410mm
Depth	140mm
Weight	15kg (without batteries)

Consultant Engineering Specification

The voice alarm system shall comply with BS5839 and EN60849, and shall operate as a single zone system housed in a wall-mounted enclosure. It shall have three messages (evacuate, alert and test) and the following inputs: fire microphone input, fire alarm input including reset, paging input and background music input.

The system shall be prioritised as follows:

1. Fire Microphone
2. Evacuation Message
3. Alert Message
4. Paging Microphone
5. Test Message
6. Background Music

The system amplifier shall drive two 100V loudspeaker lines at 30W each. DC monitoring shall be used so that any circuit fault can be reported back to the panel. All faults on the VA system must have their own fault LED, and all faults must be relayed back to the fire panel.

Batteries shall be connected so that in the case of mains failure the system will not lose any emergency facilities. The unit shall have battery back-up for 24 hours standby plus 1/2 hour full use. In the case of mains failure the background music will cut off to preserve battery life.

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KINETIC WALL MOUNT VOICE ALARM SYSTEM

Audix Systems reserves the right to modify or withdraw any product or service without notice

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