AARC EVAC ™

Wireless Linked Emergency Alert Systems

AARC SYSTEMS ™

AARC EVAC ™

A Low Cost Wireless Linked Emergency Siren & SOS/Duress Message Broadcast System

Assisting Industry, Government, Education, Leisure, Medical & Community Venues and Workplaces

✓ **More Secure**   ✓ **Improved Safety**

✓ **Faster Incident Response**   ✓ **Better Outcomes**

A smart, simple to use, simple to install Emergency Siren & SOS Message Broadcast System

Provides 'EVACUATION & ALERT' or Improved access to 'EVACUATION & ALERT' triggering

Improved medical incident response times

Provide additional security & peace of mind for 'front of house' reception staff

Rapid access to assistance when required

Provide 'LOCKDOWN' messages to secure buildings against external threats

Improved First Aid response time to accidents & injuries

What is AARC-EVAC™?

AARC-EVAC is a wireless based evacuation, lockdown & multi-zoned SOS/duress message system. Digital radio wireless based ALERT PANELS are easily and cost effectively deployed across any site.

The simple press of a button causes the transmission of a digitally encoded radio signal assigned to that button. The system can employ a variety wireless receiver based units so as to provide for maximum flexibility for each application. The receiver/message players are Standalone Units that include a Receiver, MP3 based Audio Siren & Message Player, Audio Amplifier & Speakers. All Standalone Units also have their own UPS Battery Backup System in case of mains power failure.

The range of products includes Visual Alert Beacon Units to assist the hearing impaired and persons wearing hearing protection

devices. Wireless Repeater Units extend the radio range of a system when required.

AARC-EVAC is a total system. There are two product streams: one incorporating Lockdown and one without Lockdown. There is a full complement of products in each stream that all work together to provide the best possible Alert System for any situation. Installation costs are minimised, compared to hard-wired systems.

For organisations with financial constraints that already have an adequate P.A. system we can alternately offer a version of the receiver/message player that can feed into the existing P.A. system.

Note: an adequate UPS system is always recommended to power the P.A. system in case of mains failure.

Help is just a click away!

Evacuation
Triggers Australian Standard Evacuation Tones plus a customisable recorded message ordering an evacuation of the premises.

Lockdown
Triggers a covert recorded message or a public warning signalling personnel to begin a lockdown procedure in the event that an external threat is identified.

Alert
Triggers an Australian Standard Alert Tone as an awareness warning. The system can be programmed to automatically trigger Evacuation if not cancelled after a set time.

S.O.S/Duress
Single or Multiple Alert Panels can trigger a zoned message, customised to call for assistance to its particular zone. Up to 6 customisable message zones can be established within each system.

ATX43E35 Alert Panel/Transmitter

Hidden Cancel
A discrete hidden button allows Evac, Alert, Lockdown or S.O.S calls to be cancelled. The button is hidden so that only staff trained in operating the AARC-EVAC system will be able to cancel Lockdown and S.O.S./Duress calls.

AARC-EVAC 4 & 5 Button Transmitters

AARC-EVAC™ Wireless Linked Emergency Alert Systems are designed to be activated by AARC-EVAC™ Alert Panel transmitters.

AARC-EVAC™ Alert Panel transmitters use a 4 or 5 channel digital wireless link to remotely trigger "Evacuation", "Alert", ("Lock Down" – optional) and up to 6 or 7 unique "SOS" assistance zone messages, plus a "Cancel" signal to the AARC-EVAC™ Receiver/Message Players and the AARC-EVAC™ Wireless Linked Visual Alert Beacon Units.

	Alert Button	Evac Button	S.O.S Button	Lockdown Button	Cancel Button	Wall Mount	Hand Held
ATX43E24Z	✓	✓	✓	–	✓	–	✓
ATX43E34Z	✓	✓	✓	–	✓	✓	–
ATX43E25Z	✓	✓	✓	✓	✓	–	✓
ATX43E35Z	✓	✓	✓	✓	✓	✓	–

AARC-EVAC Single Button Transmitters

AARC-EVAC™ Wireless Linked Emergency Alert Systems are designed to be activated by AARC-EVAC™ Alert Panel transmitters.

AARC-EVAC™ Alert Panel transmitters use a single channel digital wireless link to remotely trigger one of the many message or alert options available on the AARC-EVAC System.

	Button Type	Cancel Button	Wall Mount
ATX43E31-A	Assist	–	✓
ATX43E31-E	Evacuation	✓	✓
ATX43E31-S	S.O.S	–	✓
ATX43E31-LD	Lock Down	–	✓

	Button Type	Cancel Button	Wall Mount
ATX43E31-B	Bell	–	✓
ATX43E31-AC	All Clear	–	✓
ATX43E31-D	Drill	–	✓
ATX43E31-C	Cancel	✓	✓

AARC-EVAC Standalone Receiver/Message Players with Beacons

AARC-EVAC™ Standalone Wireless Linked Emergency Alert Siren & Message Player Units with Beacons. They incorporate an in-built UPS and are fully self-contained.

Currently most hard-wired systems utilise a P.A. System, these systems have a range of inherent risks i.e. if mains power fails or the P.A. cabling is damaged by fire etc., you no longer have a working emergency alert system. The deployment of standalone AARC-EVAC units mitigates these risks, even if one unit is damaged by a fire or other causes the rest of the units will still work.

When triggered the unit's Wireless Receiver activates standard emergency alert sirens, customisable audio messages and a series of beacons. The unit has an integrated audio amplifier driving two, three or four external speakers. The unit is designed to operate as a single unit or as part of a network of self-contained AARC-EVAC™ Standalone Wireless Linked Emergency Siren & Message Player Units.

When operating the standalone units as part of a network, different evacuation instructions can be broadcast in different locations.

In addition to the standalone message player units with beacons, the range also includes standalone beacon units. All units include the UPS backup battery system.

	Number of Horn Speakers	Evac Beacon	Alert Beacon	S.O.S Beacon	Lockdown Beacon	Signal Repeater
ARX43E40-LD	Beacon Unit Only	🔴	🟠	🔵	🔵	–
ARX43E72-LD	🔊🔊	🔴	🟠	🔵	🔵	–
ARX43E73-LD	🔊🔊🔊	🔴	🟠	🔵	🔵	–
ARX43E74-LD	🔊🔊🔊🔊	🔴	🟠	🔵	🔵	–
ARX43E72-LD-R	🔊🔊	🔴	🟠	🔵	🔵	✓
ARX43E73-LD-R	🔊🔊🔊	🔴	🟠	🔵	🔵	✓
ARX43E74-LD-R	🔊🔊🔊🔊	🔴	🟠	🔵	🔵	✓
ARX43E40-SOS	Beacon Unit Only	🔴	🟠	🔵	–	–
ARX43E72-SOS	🔊🔊	🔴	🟠	🔵	–	–
ARX43E73-SOS	🔊🔊🔊	🔴	🟠	🔵	–	–
ARX43E74-SOS	🔊🔊🔊🔊	🔴	🟠	🔵	–	–
ARX43E72-SOS-R	🔊🔊	🔴	🟠	🔵	–	✓
ARX43E73-SOS-R	🔊🔊🔊	🔴	🟠	🔵	–	✓
ARX43E74-SOS-R	🔊🔊🔊🔊	🔴	🟠	🔵	–	✓

AARC-EVAC Standalone Receiver/ Message Player Units with Horn Speakers

AARC-EVAC™ Standalone Wireless Linked Emergency Alert Siren & Message Player Units. They incorporate an in-built UPS and are fully self-contained.

Currently most hard-wired systems utilise a P.A. System, these systems have a range of inherent risks i.e. if mains power fails or the P.A. cabling is damaged by fire etc., you no longer have a working emergency alert system. The deployment of standalone AARC-EVAC units mitigates these risks, even if one unit is damaged by a fire or other causes the rest of the units will still work.

When triggered the unit's Wireless Receiver activates standard emergency alert sirens and customisable audio messages. The unit has an integrated audio amplifier driving two, three or four external speakers. The unit is designed to operate as a single unit or as part of a network of self-contained AARC-EVAC™ Standalone Wireless Linked Emergency Siren & Message Player Units.

When operating the standalone units as part of a network, different evacuation instructions can be broadcast in different locations.

	Number of Horn Speakers	Evac	Alert	S.O.S	Lockdown	Signal Repeater
ARX43E52		✔	✔	✔	✔	–
ARX43E53		✔	✔	✔	✔	–
ARX43E54		✔	✔	✔	✔	–
ARX43E52R		✔	✔	✔	✔	✔
ARX43E53R		✔	✔	✔	✔	✔
ARX43E54R		✔	✔	✔	✔	✔

AARC-EVAC Standalone Receiver/Message Player Units

AARC-EVAC™ Standalone Wireless Linked Emergency Alert Siren & Message Player Units. They incorporate an in-built UPS and are fully self-contained.

Currently most hard-wired systems utilise a P.A. System, these systems have a range of inherent risks i.e. if mains power fails or the P.A. cabling is damaged by fire etc., you no longer have a working emergency alert system. The deployment of standalone AARC-EVAC units mitigates these risks, even if one unit is damaged by a fire or other causes the rest of the units will still work.

When triggered the unit's Wireless Receiver activates standard emergency alert sirens and customisable audio messages. The unit has an integrated audio amplifier driving an internal speaker and an external box speaker. The unit is designed to operate as a single unit or as part of a network of self-contained AARC-EVAC™ Standalone Wireless Linked Emergency Siren & Message Player Units.

When operating the standalone units as part of a network, different evacuation instructions can be broadcast in different locations.

	Evac	Alert	S.O.S	Lockdown	Inbuilt Speaker
ARX43E50	✓	✓	✓	✓	✓

AARC-EVAC Message Repeater Units

AARC-EVAC™ ATC43E61 is a Wireless Signal Repeater Unit which is used to extend the range of the AARC-EVAC™ Wireless Emergency Alert System's wireless network and to help fill in any black spots. Any valid system message received by the repeater unit is immediately re-transmitted.

It should be noted that all standalone message player units are available with a repeater optioin built-in. These can usually be strategically placed within the network to extend the range of the system and fill any black spots.

	Evac	Alert	S.O.S	Lockdown	Signal Repeater
ATC43E61	✓	✓	✓	✓	✓

AARC-EVAC Receiver/Message Players for PA Input
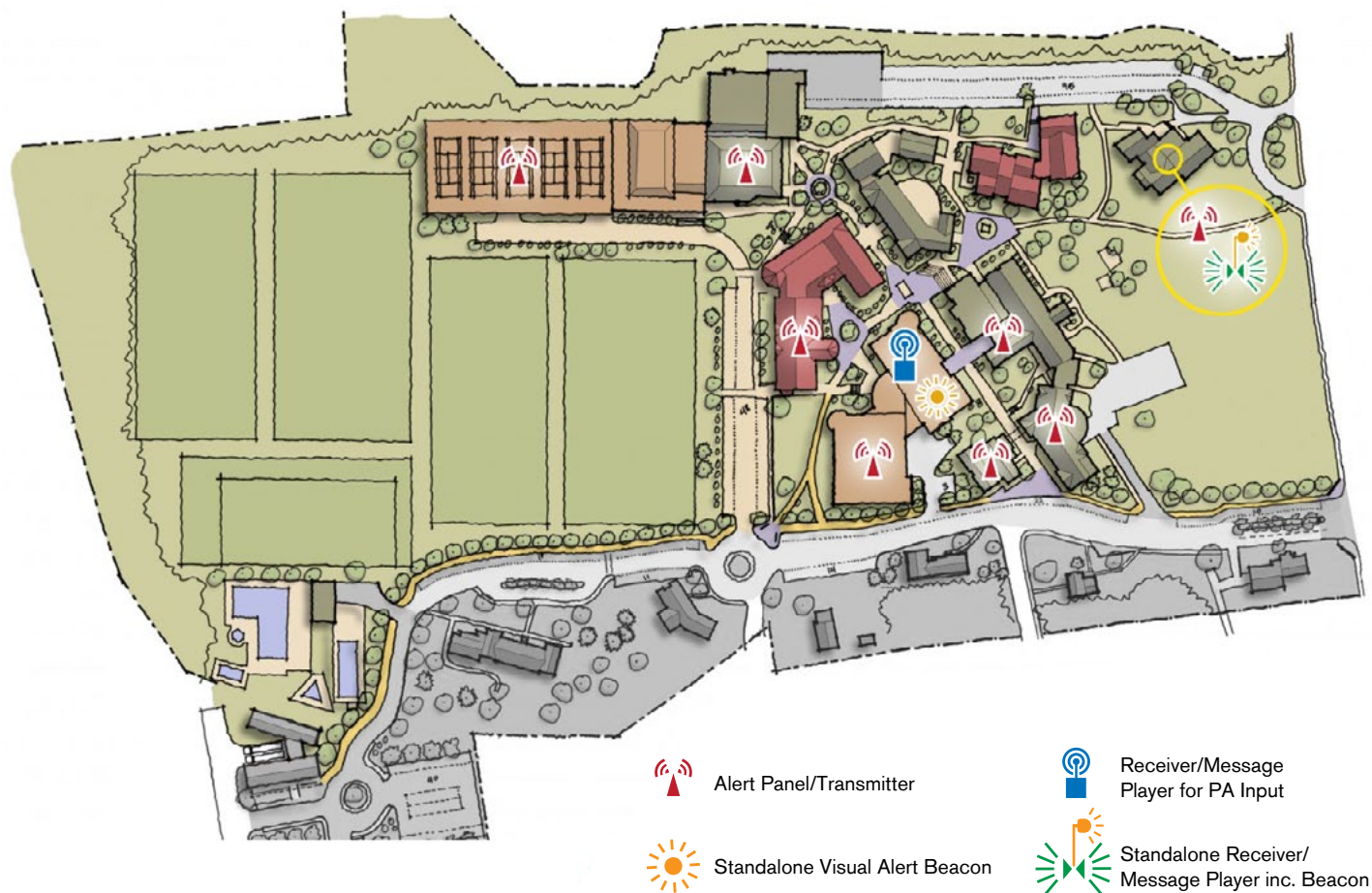

ARX43E36D

ARX43E38D

The AARC-EVAC™ Wireless Linked Emergency Alert Receiver Message Player Unit for PA Systems outputs standard Evacuation & Alert sirens, ("Lock Down" – optional), an Evacuation Drill message plus up to 6 or 7 unique "S.O.S." assistance zoned messages, when triggered by a remote wireless linked Alert Panel. These master units also have an integrated set of push button switches that can also be used to trigger the alarms, (optional lock-down), plus an evacuation drill message button. The units also have a Cancel button which is used to cancel all siren and audio messages plus any visual alert beacons deployed in the system. It is recommended that an adequate UPS system is always employed to run this receiver/message player and the P.A. system.

Note: when operating a P.A. based system a single evacuation message is applied accross the whole system.

	Alert Button	Evac Button	S.O.S Button	Unique S.O.S Messages	Lockdown Button	Cancel Button	Evac Drill Button
ARX43E36D	✓	✓	✓	7	–	✓	✓
ARX43E38D	✓	✓	–	6	✓	✓	✓

Case Study 1: School Campus Installation

🔴 Alert Panel/Transmitter

🔵 Receiver/Message Player for PA Input

🟠 Standalone Visual Alert Beacon

🟢 Standalone Receiver/Message Player inc. Beacon

This School Campus had an existing PA system, however they did not have a Lockdown Alert system. A small committee was established to review the schools requirements and to make a recommendation to the school council.

When the committee investigated the current PA they found that, although it did have an Evacuation Alert, there was only 1 alert button and that was located next to the PA Amplifier. This raised a number of concerns:

1. If the source of an incident requiring evacuation was located in the office area where the Evac Button and the PA system was located, the button may not be accessible.

2. If an incident occurred anywhere within the school, someone would need to ring the school office to raise the alarm or physically go to the office to raise the alarm, both situations which would potentially create unacceptable delays.

3. The community gymnasium located on the school grounds and extensively used for sports

and PE during school hours was not connected to the school PA system and did not hear alerts.

4. All of the above concerns also apply to any Lockdown alert system that might be deployed.

The AARC-EVAC receiver/message player PA input system in conjunction with a standalone receiver/message player were selected for recommendation to school council for the following key reasons, then later adopted and installed:

1. Multiple alert panels could be deployed throughout the school to cover all areas and significantly reduce response times.
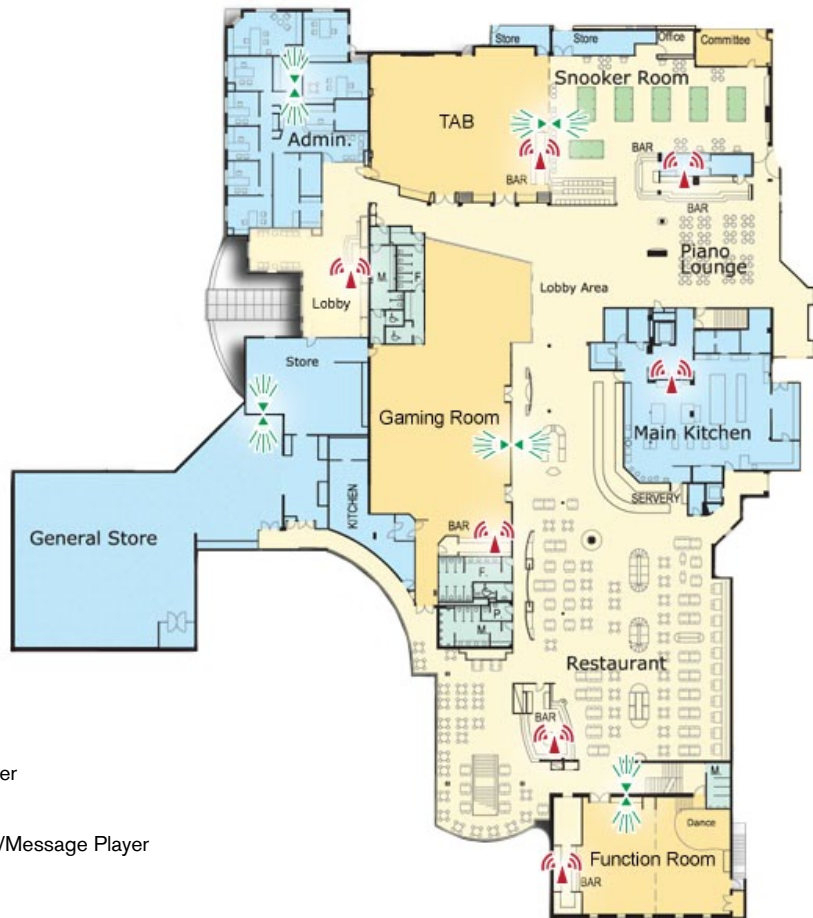

ARX43E38D Receiver/Message Player for PA Input

2. The AARC-EVAC system could be used for both Lockdown and Evacuation alerts, plus the

added bonus of access to zoned assistance messages for use by staff if required. They could even dedicate a handheld alert panel to be carried by the staff member yard duty.

3. The ability of the system to include a standalone receiver/message player unit that could be installed into the community gymnasium.

4. The system's ability to be easily and cost effectively installed and deployed across the whole campus, due to it being all radio linked and not requiring wiring.

5. In addition it was recommended that the gymnasium standalone receiver/message player unit also incorporate a visual alert beacon and that a standalone visual alert beacon be fitted the school's office reception area, as these were the most likely areas to encounter persons with hearing impairments.

Case Study 2: Medium-to-Large Licensed Club

 Alert Panel/Transmitter

 Standalone Receiver/Message Player

This licensed club venue caters for a broad range of activities, with gaming machine, restaurant, entertainment and function rooms. It attracts a large number of patrons on a daily basis and employs a large number of staff. It has a number of small PA systems servicing different areas within the venue.

There is no overall PA facility and some areas are not covered by a PA system at all. There is no automatic Evacuation system and no venue wide assistance call messaging facility. A range of risks were identified:

1. They identified the need for a venue wide automated Evacuation Alert system that could be operated independently from the existing PA systems.

2. As a licensed venue with 5 bars, gaming areas and a lobby/reception area, staff and patrons were likely to be at risk from time to time and although they employed security personnel they could not be everywhere all of the time. An S.O.S assistance call system or a radio paging system for security staff was identified as being needed.

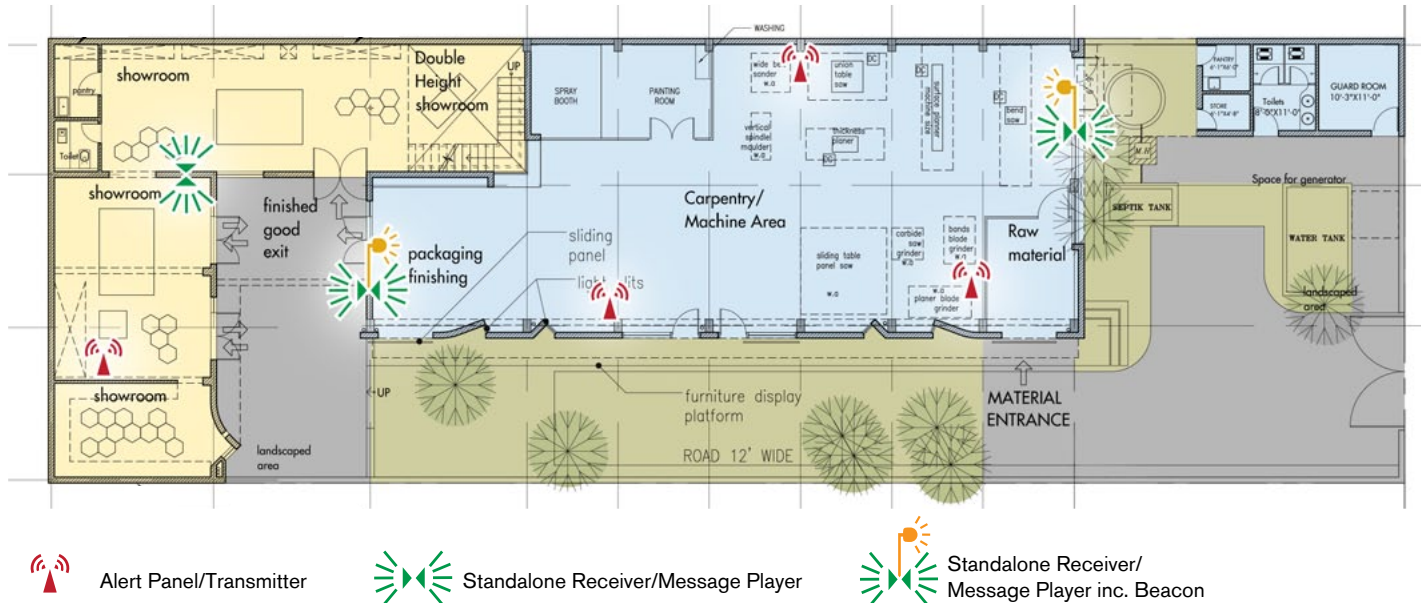ARX43E50 Standalone Receiver/Message Player

The AARC-EVAC standalone receiver/message system was selected to address these needs for the following key reasons:

1. Multiple standalone receiver message players could be deployed throughout the venue to cover all areas to form one system.

2. The system being independent of the PA systems and with the emergency alert sirens and messages all pre-recorded and fully automated. There is no requirement for staff to make announcements over different PA's or to send radio pager messages to security staff asking for assistance.

3. The system's ability to easily and cost effectively provide Alert Panels distributed strategically throughout the venue.

4. The system's ability to broadcast unique S.O.S. messages calling for security to report to the different zoned locations across the venue. E.g. "Security to Piano Bar… Security to Piano Bar please".

5. The cost effectiveness of the system, with all system components being wireless/radio linked and preconfigured, installation time and cost were minimal and there would be little to no disruption to the venue operation during installation.

Case Study 3: Small-to-Medium Sized Joinery Business with No Existing P.A. System

 Alert Panel/Transmitter

 Standalone Receiver/Message Player

 Standalone Receiver/Message Player inc. Beacon

This joinery business employs a large range of woodworking machines and as a result of the company undertaking an OH&S risk assessment, they identified a number of risks:

1. As the highest priority, they identified the need for the fastest possible response time in the event of any accident or injury that might occur within the factory.

2. As a high priority they identified that due to the use of electrically powered machinery and their extensive use of timber, the work place potentially has a heightened fire risk and needed an evacuation alert system.

The AARC-EVAC standalone system was selected to address these needs for the following reasons:

1. The system's ability to easily and cost effectively provide Alert Panels that could be distributed throughout the factory.

2. The system's ability to broadcast unique S.O.S. messages for different zoned locations within the factory.

3. The UPS battery back-up self-contained siren and message player units providing operation even with power out. (Machine overload, electrical motor stalling/jamming creates a fire risk and potentially the tripping of a circuit breaker, resulting in loss of mains power).
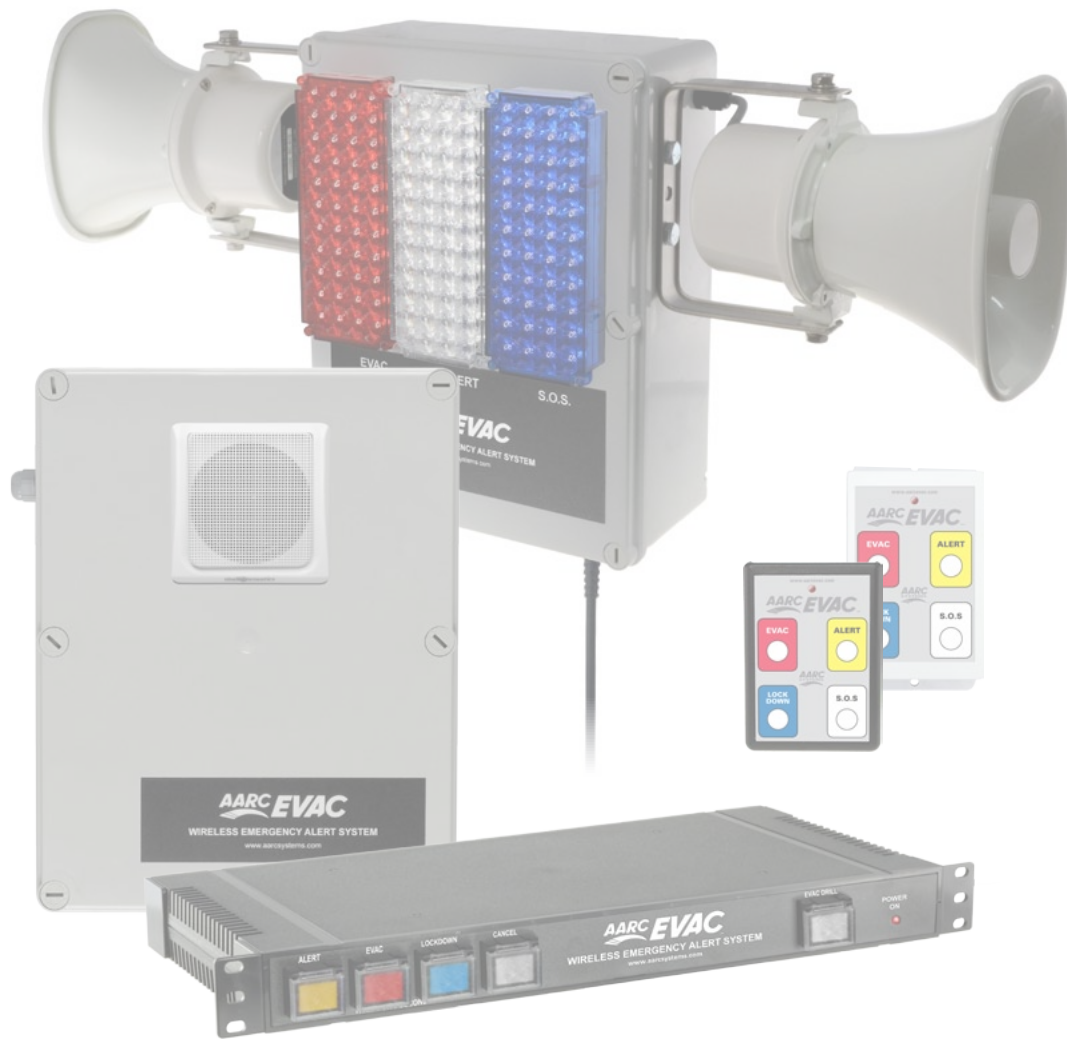
4. The ability of the system to also provide visual flashing beacon alerts in a workplace which can be a very noisy environment and where employees all wear hearing protection devices.

5. As a wireless linked system, alert panel placement provides for maximum flexibility, with no initial wiring and no re-wiring if in the future the alert panel needs to be relocated.

ARX43E72-SOS Standalone Receiver/Message Player inc. beacon

ATX43E24Z Alert Panel/Transmitter

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AARC EVAC
Designed & Manufactured in Australia

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