



**Wireless Linked Emergency Alert Broadcast Systems**

## **Indoor Receiver, Message Broadcast Units with Repeater Transmitter**

**ARX52-R 2x Speakers & Audio Amplifiers**

**ARX53-R 3x Speakers & Audio Amplifiers**

**ARX54-R 4x Speakers & Audio Amplifiers**

***Providing any or all of the following alerts:  
EVACUATION, ALERT, LOCKDOWN, MULTIPLE FIRST AID ASSIST, MULTIPLE DURESS ASSIST and a variety of NATURAL DISASTER WARNINGS.***

**Indoor Standalone Units** are designed to be mounted indoors, however the horn speakers are weather proof and can be mounted outdoors.

***for use in Education, Industry, Mining, Government, Education, Community, Leisure, Medical etc.***

The AARC-EVAC™ **ARX52-R, ARX53-R & ARX54-R** Standalone Wireless Linked Emergency Alert Siren & Message Broadcast Units, all incorporate an in-built Battery Backup UPS and a Repeater Transmitter. They are fully self-contained making them ideal for use in locations where there is no existing PA system, or to cover areas not serviced by a PA system or as a full standalone network of units to provide for redundancy if the PA system fails for any reason.

When triggered the unit's Wireless Receiver activates standard emergency alert sirens and customisable audio messages. The unit has multiple integrated audio amplifiers driving each of the 2, 3 or 4 speakers. These can be horn or box speaker or a combination of both. The units are designed to operate as a single unit within an AARC-EVAC™ Wireless Emergency Alert System, or as part of a network of self-contained AARC-EVAC™ Standalone units, creating a full Wireless Linked Emergency Siren & Message Broadcast System.



Units are triggered by wireless signals received from AARC-EVAC

- Handheld or Wall Mounted Alert Panel remote transmitters.
- A wireless signal received from an AARC-EVAC Wireless Signal Repeater Unit.
- The front panel buttons on an AARC-EVAC -PA system Transceiver, Message Player unit.
- An external interface unit EIU transmitter (usually triggered by a Fire Panel), or
- Another Standalone Unit, that has been supplied incorporating a Repeater Transmitter

*There is an extensive range of emergency alerts, any or all, are available in a system, they include:*

**Pre-Evacuation Alert, Evacuation, Lockdown, Multi-Location Duress, Multi-Location FirstAid Assist, Cyclone, Bushfire, Lightning, Tsunami and more.**

All these alerts include clear and concise voice instructions in any language or multiple languages, as required. All the alert sirens and voice messages are customer designated.



Evacuation



Duress



Lock Down



First Aid



All Clear



Alert



Drill

## Specifications

**ARX52-R Indoor Receiver, Message Broadcast Unit,  
ARX53-R Indoor Receiver, Message Broadcast Unit and  
ARX54-R Indoor Receiver, Message Broadcast Unit, all include:**

•Digital Wireless Receiver •Message Player •2x, 3x or 4x Audio Amplifiers •UPS Backup Battery & Power Management System •2x, 3x or 4x Speakers •Repeater Transmitter

- Radio Frequency Band: UHF 434MHz
- RF Input Sensitivity: -121dBm
- Repeater RF Output: 25mW ERP (Effective Radiated Power)
- Operating range: > 400m Open Air/Line of Sight  
Through & Inside Buildings – Range is dependent on the environment, obstacles, walls, structural materials used, etc.  
50-100m (Typical)
- Secure operation: Each system has unique codes (> 4 billion unique 32Bit digital codes available)
- RC Message Switches: Multiple Audio Sirens, Messages & Alerts, plus Cancel - Typically: Evacuation, Alert, Multiple First Aid Assist, Multiple Duress Assist, Lock Down, various Natural Disaster Warnings and All Clear
- Message Format: MP3 Digital Audio Files
- Message Storage: Micro SD Card

- Audio Amplifier Outputs: Max: 10W RMS @ 8 Ohms per Channel
- UPS Backup Battery: 12VDC 7.0AH SLA Battery
- Battery life: >3 years with average use
- Battery Replacement: 3yrs on Annual Maintenance Schedule – Recommended
- UPS Battery Charger: 240VAC – 15VDC Plug Pack Adapter
- UPS Power Failure Run Time: Audio Amplifiers Systems running Full Rated Audio Power: > 2Hrs  
No Audio/Standby Use: > 36Hrs
- Antenna: External 325mm whip antenna with N connector
- Battery status warning: Red/Green dual colour LED lamp & warning buzzer
- Size without antenna 250 x 325 x 140mm (plus antenna if fitted directly to unit)
- Horn Speaker Ratings:
  - Power: 15W RMS 8 Ohm
  - Sensitivity: 106dB @ 1W at 1.0M
  - Size: 225 x 165 x 245mm
- Box Speaker Ratings:
  - Power: 15W RMS 8 Ohm
  - Sensitivity: 88dB @ 1W at 1.0M
  - Size: 198x 150x 128mm
- Country of Origin: **AARC-EVAC Designed & Manufactured in Australia**

The **AARC-EVAC™ ARX52-R** is supplied with 2 speakers, these can be the **AARC-SC610** Horn Speaker or the **AARC-S400** Box Speaker or a combination of both. The following order codes represent the mix of speakers required.

**ARX52-2H-0B-R** AARC INDOOR SYSTEM RX w/2x Horn Spks & 0x Box Spks, & Repeater

**ARX52-1H-1B-R** AARC INDOOR SYSTEM RX w/1x Horn Spk & 1x Box Spk, & Repeater

**ARX52-0H-2B-R** AARC INDOOR SYSTEM RX w/0x Horn Spks & 2x Box Spks, & Repeater

The **AARC-EVAC™ ARX53-R** is supplied with 3 speakers, these can be the **AARC-SC610** Horn Speaker or the **AARC-S400** Box Speaker or a combination of both. The following order codes represent the mix of speakers required.

**ARX53-3H-0B-R** AARC INDOOR SYSTEM RX w/3x Horn Spks & 0x Box Spks, & Repeater

**ARX53-2H-1B-R** AARC INDOOR SYSTEM RX w/2x Horn Spks & 1x Box Spk, & Repeater

**ARX53-1H-2B-R** AARC INDOOR SYSTEM RX w/1x Horn Spk & 2x Box Spks, & Repeater

**ARX53-0H-3B-R** AARC INDOOR SYSTEM RX w/0x Horn Spks & 3x Box Spks, & Repeater

The **AARC-EVAC™ ARX54-R** is supplied with 4 speakers, these can be the **AARC-SC610** Horn Speaker or the **AARC-S400** Box Speaker or a combination of both. The following order codes represent the mix of speakers required.

**ARX54-4H-0B-R** AARC INDOOR SYSTEM RX w/4x Horn Spks & 0x Box Spks, & Repeater

**ARX54-3H-1B-R** AARC INDOOR SYSTEM RX w/3x Horn Spks & 1x Box Spk, & Repeater

**ARX54-2H-2B-R** AARC INDOOR SYSTEM RX w/2x Horn Spks & 2x Box Spks, & Repeater

**ARX54-1H-3B-R** AARC INDOOR SYSTEM RX w/1x Horn Spk & 3x Box Spks, & Repeater

**ARX54-0H-4B-R** AARC INDOOR SYSTEM RX w/0x Horn Spks & 4x Box Spks, & Repeater

**Note:** For larger systems the Unit can be supplied with an optional antenna cable and antenna mounting bracket for optimising antenna position.

|                           |  |
|---------------------------|--|
| <b>TXANT-CABLE N-N1.0</b> | AARC RG58 Cable with N Skt - N Plug 1.0Mtr       |
| <b>TXANT-CABLE N-N2.0</b> | AARC RG58 Cable with N Skt - N Plug 2.0Mtr       |
| <b>TXANT-CABLE N-N3.6</b> | AARC RG58 Cable with N Skt - N Plug 3.6Mtr       |
| <b>TXANT-CABLE N-N5.0</b> | AARC RG58 Cable with N Skt - N Plug 5.0Mtr       |
| <b>TXANT-L-BRACKET</b>    | AARC Antenna L Mounting Bracket- Suit N Skt Base |

**Note:** For antenna cable runs where you need to get through tight places, down wall etc. sometime the large “N” connector can cause issues. Antenna extension RF cables can be supplied with the small “SMA” connector We also supply an adaptor to convert the SMA connector to an N connector.

|                              |  |
|------------------------------|--|
| <b>TXANT-CABLE N-SMA2.0</b>  | AARC RG58 Cable with N Skt - SMA Plug 2.0Mtr     |
| <b>TXANT-CABLE N-SMA3.6</b>  | AARC RG58 Cable with N Skt - SMA Plug 3.6Mtr     |
| <b>TXANT-CABLE N-SMA5.0</b>  | AARC RG58 Cable with N Skt - SMA Plug 5.0Mtr     |
| <b>TXANT-CABLE N-SMA10.0</b> | AARC RG58 Cable with N Skt - SMA Plug 10.0Mtr    |
| <b>LE4091A</b>               | RF Plug Adaptor SMA Female Socket to N Male Plug |

