

Product Guide**A 4575A** Alert / Evacuation Controller

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Overview

This easy to operate controller is designed around industry standard building emergency alert/evacuate requirements. When connected to a paging system amplifier, building occupants can be alerted and/or evacuated in the event of an emergency eg: fire, gas leak, bomb scare, earthquake. Auto or manual modes are selected by the front panel key switch (see below), which uses an industry standard 003 key. Alert & evac switches are fitted with safety covers to prevent accidental operation. A CB style microphone (C 0334) may be plugged into the front panel for announcements or recording voice over messages.

Modes Of Operation

Auto: The alert tone is generated when a signal is received from the fire indicator board (FIB). After a preset time the evacuate tone is sounded unless the alert tone is manually reset. The evacuation tone continues until manually reset. When selected to auto, front panel alert and evac controls are inoperative. Other controls such as paging, bell chime and BGM function normally.

Manual: In the manual position any of the functions may be initiated from the controls on the front panel, i.e. Alert, Evac, or PA.

Remote cancel function: Terminals are provided for the connection of a remote cancel switch. When activated with a closing set of contacts this will cancel any activated tone, regardless of the position of the master auto/manual/isolate key switch on the front panel. This is useful when the controller may not be readily accessible.

Other functions: Provision has been made for a BGM source to be played through the controller. BGM is automatically muted when any other function is operated. A mic input is provided on the front panel. This can be used for either general or emergency paging. Paging overrides all other functions. A pre-announcement chime is available on the microphone input. This can be switched on or off internally. Also inbuilt, is a unique tone for signalling lunch breaks, start of class etc. This can be operated from the front panel or via rear contacts for remote activation ie. clock or remote switch.

Key Features

- ✓ Australian made
- ✓ 10 year manufacturer warranty with local product support
- ✓ 1U 19" rack mount.
- ✓ Interfaces with fire indicator boards.
- ✓ Remote operation of alert and evac tones.
- ✓ 240V mains or 24V dc operation.
- ✓ Auto / manual / isolate 003 key switch.
- ✓ Local operation of alert, evac, PA.
- ✓ Provision for voice-over message.
- ✓ Microphone socket for PA use.
- ✓ BGM and line input.
- ✓ Bell chime facility.
- ✓ Switched 24V output for operating override relay on remote volume controls with alert/evac/PA signals.
- ✓ Separate relays for alert and evac signals for external strobe light operation.
- ✓ On-board timer for remote alert activation adjustable from 30 seconds to 7.5 min in 30 second increments.
- ✓ Externally operated inputs are activated by switching to ground.
- ✓ Line level output.
- ✓ Tones conform to Australian standard AS1670.4.

Improvements Over A 2075 (previous model)

- Pluggable screw terminal connection blocks
- Switched 24VDC output for bell
- On board voice over module
- Voice over & pre-announcement chime volume controls
- Voice over on/off switch
- Polyswitch protection of all switched outputs (100mA per output)
- Spike protection on all triggers
- All controls on outside of unit.
- Record indicator on front of unit

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Redback® products are proudly designed, engineered and manufactured in Australia.

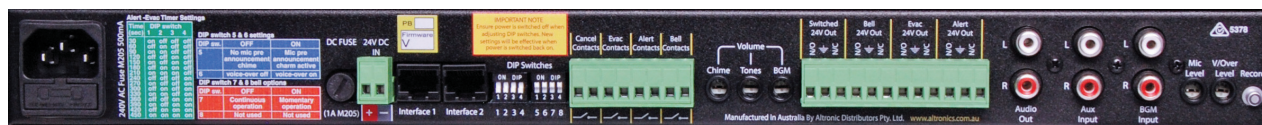
Each unit is covered by a comprehensive 10 year parts and labour warranty. Redback® offers rock solid reliability from over 30 years experience in the commercial sound industry. Redback® offer locally available servicing and parts, plus the ability to offer feedback direct to the manufacturer.

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Rear Panel



1	240V AC Input	8	Alert contacts	15	Audio RCA output
2	24VDC Input	9	Bell contacts	16	Auxiliary RCA input
3	RJ45 Interface Connections	10	Chime, tone & BGM levels	17	BGM RCA input
4	DIP switches 1-4	11	Switched 24V output	18	Microphone level
5	DIP switches 5-8	12	Bell 24V output	19	Voice over level
6	Cancel contacts	13	Evac 24V output	20	Record button
7	Evac contacts	14	Alert 24V output		

Specifications

Electrical

Output level:	0dBm
Frequency response:	140Hz - 20kHz
Mic input sensitivity:	2mV balanced
Line input sensitivity:	300mV unbalanced
Power supply:	240V AC or 24V DC
Protection:	1A fuse

Inputs & Outputs

Audio output:	RCA stereo socket
Switched 24V DC out:	Screw terminals
Mic input:	5 pin XLR
Line inputs:	RCA stereo socket
Remote contacts:	Screw terminals

Mechanical

Dimensions:	≈483W x 152D x 44H
Weight:	≈2.5 kg

Architect Specifications

The control panel shall generate emergency alert and evacuation tones (Conforming to Australian Standard AS1670.4) and bell chime tones. It shall be able to be operated manually from the control panel, automatically by input from a fire indicator board or via remote switches. A front panel mount key switch will select the system to either Isolate, Auto or Manual operations. When triggered, both alert and evacuation operations shall also switch 24V DC relays to connect power to external strobe lamps. The unit shall have 2 sets of rear panel mounted unbalanced dual RCA sockets for input of background music and auxiliary source. Background music shall be muted when any other function is operating. A front panel mounted 5 pin XLR balanced socket shall provide microphone input. Rear mounted pluggable terminals shall provide for remote triggering of the chime, alert and evac tones by closing contacts. 24V DC relay outputs are provided for switching power to alert and evacuation strobe lamps, switched 24V DC output for remote volume override relay control and input of 24V DC from a backup battery. The rear panel shall have separate volume controls for tones, background music and microphone. The unit shall have a recordable voice over message chip. The unit shall be remote triggerable by A 4578 or A 4581 wallplate which shall connect via RJ45 UTP cabling. Alternatively the unit shall be remote triggerable by A 2078B or A 2081 wallplate which shall be connected via 8 core cable. Audio output shall be by dual line level RCA sockets. The unit shall operate from 240V AC and 24V DC and shall be fuse protected. The control panel shall be housed in a 1RU metal rack chassis. The control panel shall be a REDBACK model A 4575A.

Accessories

C 0334 CB Type Mic For Announcements.

Fitted with 5 pin XLR plug and curly cord. Also permits messages to be recorded onto the A 2076 voice over chip (when fitted).



C 0334

Remote Control Wallplates.

Allows the A 4575A alert/evac unit to be activated remotely. Featuring alert, evacuation and cancel buttons with protective "flip up" covers to prevent accidental operation. Plate fits standard wall box. Two snap-on covers are provided, allowing you to choose a style that suits your installation.

A 4578 and A 4581 connect to main A 4575A unit via RJ45 UTP cable.

A 2078B and A 2081 connect to main A 4575A unit via suitable 8 core cable. All connections via screw terminals for easy on-site termination.



A 4578



A 2078B



A 4581



A 2081

Made in Australia by Altronic Distributors Pty. Ltd.

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