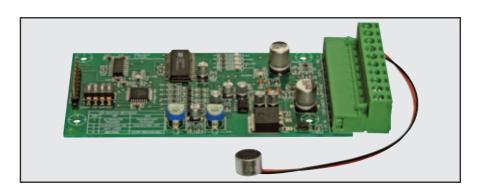


# Alert / Evac Tone Generator Module

# **OPERATING INSTRUCTIONS**



The A 2070B Evac/Alert module was designed as an add-on for existing amplifiers / P.A. installations. The module is very easy to install, and can run from any DC voltage from 8-35V. The size has been made very compact, by virtue of the latest in low power microprocessor design. It will generate standard alert and evacuation tones which conform to AS1670.4. The module can be configured to be latched on (in the case of alert and evac tones) and comes with a voice over facility to record messages.

#### **ALERT TONE**

The alert tone is a warning tone that starts at -50dB below maximum level and increases in 10dB steps to the maximum. The frequency of the tone is 420Hz. Each tone burst lasts for 0.625 secs, with 0.625 secs in between. So total cycle from start to maximum takes 6.25 secs. Once the maximum level is reached, this continues until either the input is removed, the power is removed or the cancel trigger is used, depending on the DIP switch setting (see Dip Switch settings for more information).

#### **EVACUATION TONE**

The Evac tone is used to initiate an evacuation of a building. This is a constant frequency tone at 480Hz at a constant output level. The tone burst lasts for 0.5 seconds with a 0.5 second gap between bursts and is repeated 3 times. There is a 1 second gap between cycles. This will continue until power is removed, the Cancel contact is triggered or the Evac trigger is removed while the unit is in Momentary Trigger Mode (see Dip Switch Settings). If the "Voiceover Message" dip switch is in the "ON" position the unit will play the recorded message between each 3 burst cycle (see Dip Switch Settings).

### **DIP SWITCH SETTINGS**

The A 2070B is fitted with a 4 way dip switch.

#### Dip SW 1

ON – Enables Latched Triggering of Alert and Evac tones OFF – Enables Momentary Triggering of Alert and Evac tones

The Alert and Evac inputs are triggered by a "short to ground" connection (See Fig 1).

When the Dip Switch is set to the latched position a short pulsed connection is all that is required to trigger the corresponding tone.

Once the Alert input is triggered the "Alert" tone will continue to sound until either power is removed, the "Evac" trigger is pulsed or the "Cancel" trigger is pulsed. Once the Evac input is triggered the "Evac" tone will continue to sound until either the power is removed or the "Cancel" trigger is pulsed. (Pulsing the "Alert" trigger will not stop the "Evac" tone.

#### Dip SW 2

ON – Voiceover ON OFF – Voiceover OFF

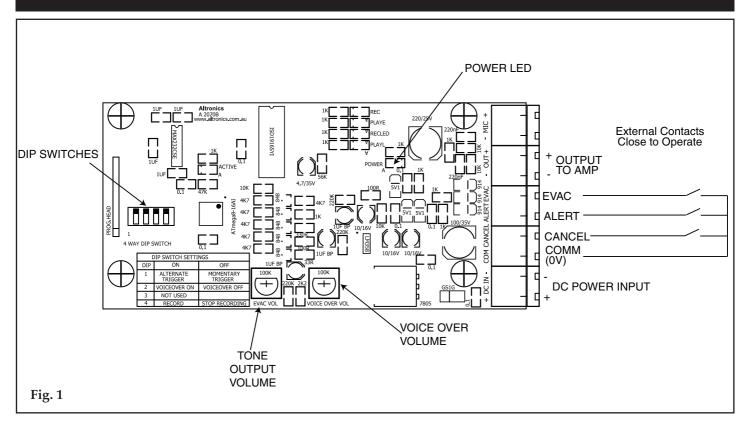
When Dip Switch 2 is set to the "ON" position and the Evac input has been triggered the unit will perform 3 cycles in the Evacuation mode and then play the prerecorded message.

When the Dip Switch is set "OFF" the unit will perform a 1 second gap instead of playing the message.

Dip SW 3 Not Used

Distributed by Altronic Distributors Pty. Ltd. Perth. Western Australia.

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#### Dip SW 4

ON – Message Recording ON OFF – Message Recording OFF

When Dip Switch 4 is set "ON" the unit is in record mode and will record through the microphone input. To record a message follow the steps below.

#### RECORDING OF THE VOICE OVER MESSAGE

- 1. Disconnect the unit from power.
- 2. Re-connect power to the unit.
- 3. Set dip switch 4 to the "ON" position.
- 4. Use the microphone to record your message. (Please note the recording will begin as soon as dip switch 4 is turned on. The maximum message length is 16 seconds.)
- 5. Set dip switch 4 to the "OFF" position.
- 6. To re-record the message follow steps 3-5.

#### **VOLUME CONTROLS**

There are 2 adjustable trimpots on the unit. These are for setting the output level of the unit (labelled EVAC VOL) and for adjusting the volume of the message playback (labelled VOICE OVER VOL).

#### WIRING CONNECTIONS

It is intended that the module be installed and connected internally to an amplifier, although a stand-alone version can be made with a separate power supply.

Firstly determine if the module will fit into your amplifier. Power can then be taken from almost any point in the amplifier, with a voltage of 8 to 35V dc. It is best to measure the available supply first.

#### **SPECIFICATIONS**

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#### General

Minimum trigger time	1mS
	1.25V RMS
-	8-35V DC
	15mA
	52(w) x 120(l) x 20mm(h)

#### Voice Over

Maximu	ım record,	/play	time	 16secs
Sample	rate			 12kHz

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