

INSTRUCTION MANUAL

A121APPX, AL121APPX & MV121 APPELLO Alarm Tone and Voice Annunciation Sounder

1) Introduction

The Appello tone and speech annunciation sounder has three different styles in AC and DC.

- A121APPX & MV121 Sounder
- AL121APPX Sounder-Beacon Combination Sounder-Beacon Combination units are available as either a high output LED or Xenon strobe.

These Sounder units share a common set of functions:-

- 4 stages, each stage can record up to 30 seconds of CD quality audio.
- Facility to record via an on board microphone or a line in input.
- The recorded message can be played back proceeded either with or without the choice of one of forty five tones.

The Beacon functions are either:-

- Xenon Strobe 1Hz flash rate
- . LED Either Steady or 2Hz blink rate

2) Operating and Marking

All units have the following operating requirements and limitations.

Unit Type No. Voltage Range Current Sounder only outputs A121APPX DC 24Vdc 14-30Vdc 1.51A

& MV121 DC

AL121APPX combined unit - Add selected sounder & beacon currents to calculate total current required.

Beacon only outputs

LED Beacon DC 24Vdc 10-30Vdc 157mA

Max Current 166mA @ 30Vdc

LED Beacon AC 115Vac 90-260Vac 60mA 230Vac 90-260Vac 35mA

Max Current 60mA @ 90Vac

Xenon Beacon DC 12Vdc 10-14Vdc 500mA

24Vdc 20-28Vdc 250mA Xenon Beacon AC 115Vac +/-10%Vac 100mA

230Vac +/-10%Vac 50mA

200140 17 107014

Operating Temp: -20 to +55°C

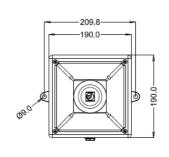
All units IP Rating: Type 4 / 4X / 3R / 13 , IP66 MV121 additional IP Rating: IP67

3) Installation & Wiring Requirements

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A121APPX

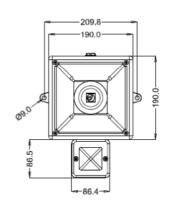
Marking:



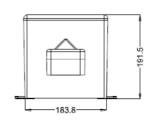


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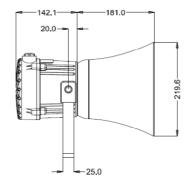
AL121APPX

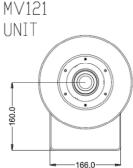


AL121APPX UNIT



MV121

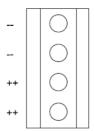




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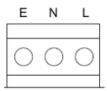
<u>sales@e2s.com</u> Tel: +44 (0)208 743 8880 <u>www.e2s.com</u> Fax: +44 (0)208 740 4200 Always de-energize unit before removing cover. The installation of the units must be in accordance with any local codes that may apply and should only be carried out by a competent trained electrical engineer.

The power terminals on the control unit are clearly marked and will accept up to 1.5mm² cable.



DC Terminals on main PCB. ++ = Positive





AC Terminals On Sub PCB L = Live N = Neutral E = Earth

The AL121 units will have the beacon already prewired to the unit so no extra wiring is required.

4) Beacon Set-up

The beacon unit may need to be configured dependant on the type of flash required.

The xenon beacon has a 1Hz flash rate only.

The LED beacon is set as standard to the 2Hz flash mode but it can be set to a steady on mode also. To alter the settings, change the position of the header pin as shown.

- Remove header for steady mode.
- Keep header in standard position for 2Hz flashing mode

5) Unit Set-up and Recording

The unit will need to be configured to suit the end user.

If recording either via the onboard microphone or the in-line connector the unit will need to be supplied with power.

DC units can be powered when completing recording and set-up.

Warning!: During set-up on AC units care must be taken not to touch the live terminals. This is because on the AC units there is a risk of electric shock.

See section 7) Appello Setup Guide overleaf for Set-up instructions and functions.

6) Tone Selection Table

The Appello unit has 45 different tones (See Table 1) that can be selected for the first stage alarm. The systems can then be switched to sound second, third and fourth stage alarm tones. The tones are selected by operation of a DIP switch S4 on the main PCB.

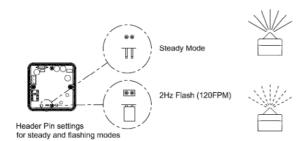
The tone table (Table 1) shows the switch positions for the 45 tones and which tones are available for the second third and fourth stages.

Example

S4 Dip Switch -Shown Set for Tone 1 (All switches OFF)



To sound stage one simply connect the supply voltage (+ve and -ve) for DC units and (L, N, E) for AC units, to the supply input terminals on the correct PCB shown.



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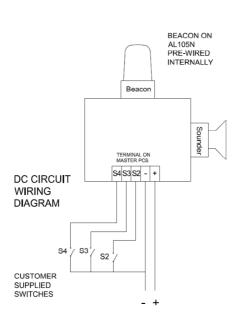
<u>DC Units Second, Third and Fourth Stage</u> Selection

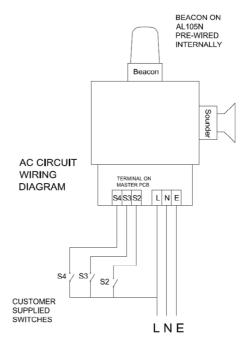
The Appello unit uses -ve switching to change the tone to the second, third and fourth stages. Warning!: The negative supply must remain connected to the -(ve) terminal and a link made from this to the appropriate stage (S2) terminal otherwise the unit will be damaged.

To change to the second, third or fourth stage tone, link the -ve supply line to terminal relevant stage terminal. Ie. for Stage 2 link the -ve supply to the S2 terminal, for Stage 3 link the -ve supply to the S3 terminal etc.

AC Units Second, Third and Fourth Stage Selection

The Appello unit uses Live switching to change the tone to the second, third and fourth stages. To change to the second, third or fourth stage tone, whilst maintaining the ac supply to the Live and neutral, also link the Live supply line to terminal relevant stage terminal. i.e. for Stage 2 link the Live supply to the S2 terminal, for Stage 3 link the Live supply to the S3 terminal etc.

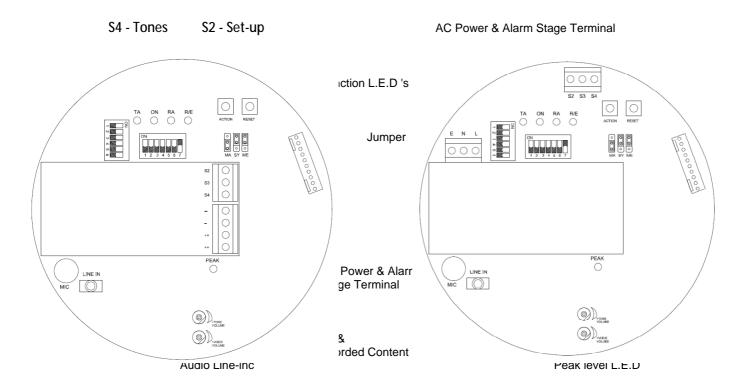






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DC A121APPX, MV121 & AL121APPX Board

AC A121APPX, MV121 & AL121APPX Board

7) Appello Setup Guide

The following guide is designed to get the user quickly interfacing with the Appello unit.

- The Appello unit can be set-up to either play an attention seeking tone and then a recorded message or just play the recorded message.
- The user can:
 - Record on each of the 4 stages using either the Line In or Microphone inputs
 - o Select the required alarm tone
 - o Delete unwanted messages.
- To re-record a message on a particular stage, the previous message on that stage <u>must</u> be deleted first.
- Once the user has configured the unit, it must be put into it's Playback Mode and S2 switches set to stage 1, as shown in Quick Ref - Playback Mode (Stage 1 illustrated) guide below.
- The "Mass Erase" function will erase all the recorded stages.
- The "Mass Erase" can also be used to reset the unit if any functionality is lost.

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Quick ref - Switch 'S2' Dip Switch Function Settings

Switch No.	OFF Position Function		ON Position Function
1	Record Mode		Playback Mode
2	Stage selection switch	→ ON	Switch 2 On & Switch 3 On = Alarm Stage 1 Switch 2 Off & Switch 3 On = Alarm Stage 2
3	Stage selection switch	2 3	Switch 2 On & Switch 3 Off = Alarm Stage 3 Switch 2 Off & Switch 3 Off = Alarm Stage 4
4	Line-In selected	4 5	On board Microphone selected
5	Program – Record & Erase Mode ON	6	Playback – Record & Erase Mode OFF
6	Message & Tone Playback		Message only Playback
7	Single Message or Mass Erase Mode OFF		Single Message or Mass Erase Mode ON

Quick Ref - Playback Mode (Stage 1 illustrated)

1	For Stage 1: Set Switch 'S2' positions 1,2,3 & 5 to 'ON' Alternatively for: For Stage 2: Set Switch 'S2' positions 1,3 & 5 to 'ON' For Stage 3: Set Switch 'S2' positions 1,2 & 5 to 'ON' For Stage 4: Set Switch 'S2' positions 1 & 5 to 'ON'	STAGE 1 ON 1 2 3 4 5 6 7 STAGE 2 ON 1 2 3 4 5 6 7 STAGE 3 ON 1 2 3 4 5 6 7 STAGE 4 ON 1 2 3 4 5 6 7	O O O O O O O O O O O O O O O O O O O	NO ODE NO ODE OPE	TA	ON O	RA O	R/E
2	Switch on power or Press reset button	RESET			ТА	ON	RA O	R/E
За	Unit will sound alarm tone and then recorded content repeatedly				TA O	ON O	RA	R/E

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Quick Ref - Recording Mode (Stage 1 illustrated)

	For Stage 1: Set Switch 'S2' positions	STAGE 1	TA ON RA R/E
	2,3 & 4 to 'ON' Alternatively for:	1 2 3 4 5 6 7	0 0 0 0
	For Stage 2: Set Switch 'S2' positions 3 & 4 to 'ON'	STAGE 2 ON 1 2 3 4 5 6 7	
1	For Stage 3: Set Switch 'S2' positions 2 & 4 to 'ON'	STAGE 3 ON 1 2 3 4 5 6 7	
	For Stage 4: Set Switch 'S2' position 4 to 'ON'	STAGE 4 ON 1 2 3 4 5 6 7	
	To record from Line-in instead of the on board microphone follow above step 1 but set Switch 'S2' position 4 to OFF		
2	Switch on power or Press reset button	RESET	TA ON RA R/E
3a	Press action button: Start recording	ACTION	TA ON RA R/E
	Speak into microphone or plug line-in.		TA ON RA R/E
	It is suggested that a 5cm gap is maintained to the microphone.		
3b	The peak detector L.E.D should flash regularly to maintain a good recording level. However, if it stays on for most of the time, the recording may be distorted.	T	PEAK
4	Press action button: Stop recording	ACTION	TA ON RA R/E

Quick Ref - Erase Single stage Mode (Stage 1 illustrated)

1	For Stage 1: Set Switch 'S2' positions 2,3 & 7 to 'ON' Alternatively for: For Stage 2: Set Switch 'S2' positions 3 & 7 to 'ON' For Stage 3: Set Switch 'S2' positions 2 & 7 to 'ON' For Stage 4: Set Switch 'S2' position 7 to 'ON'	STAGE 1 ON 1 2 3 4 5 6 7 STAGE 2 ON 1 2 3 4 5 6 7 STAGE 3 ON 1 2 3 4 5 6 7 STAGE 4 ON 1 2 3 4 5 6 7	TA ON RA R/E
2	Switch on power or Press reset button	RESET	TA ON RA R/E
3a	Press action button: Erase will begin	ACTION	TA ON RA R/E
3b	erase complete		TA ON RA R/E

Quick Ref - Mass Erase Mode (Erases All Stages)

1	Set Switch 'S2' position 7 to 'ON'	ON 1 2 3 4 5 6 7	TA ON RA R/E
2	Set jumper 'ME' to ON position (centre and bottom pin connected)	NO OO O MA SY ME	
3	Switch on power or Press reset button	RESET	TA ON RA R/E
4a	Press action button: Erase will begin	ACTION	TA ON RA R/E
4b	erase complete		TA ON RA R/E
5	Reset Jumper 'ME' to OFF position	NO OO O	

Quick Ref - Synchronising Two Sounders (All stages)

1	Connect Synch cable to Master and Slave PCB	MASTER UNIT	SLAVE UNIT	
	Set 1 off Units as Master and 1 off Unit as Slave Set jumper to SY on Set jumper MA on Master unit to master position (on)	O O O O O O O MA SY ME	©© ON	TA ON RA R/E
2	Set jumper MA on Slave unit to slave position (off) Position of S2 switch does not affect synch operation.	O O O O O O O O O O O O O O O O O O O	ON OED OFF	
	Switch on power onto the Master unit first		Master Unit	TA ON RA R/E
3	Then switch power onto the Slave unit		Slave Unit	TA ON RA R/E
	Press action button on the Master Unit: Synchronisation will begin (Duration 13 Minutes)	Į.	Master Unit	TA ON RA R/E
4a		Slave Unit	TA ON RA R/E	
	Synchronisation		Master Unit	TA ON RA R/E
4b	complete Switch off Power to units		Slave Unit	TA ON RA R/E
5	Reset on both units jumper SY to off Set jumper MA on both units to Master position (on)	O O O O O O O O MA SY ME	©© ON	

Table 1: Tone selection table

		Switch			Stage 2	Stage 3	Stage 4				
Stage 1	Frequency Description		1	2	3	4	5	6	(S2)	(S3)	(S4)
Tone 1	340 Hz Continuous								Tone 2	Tone 5	Tone 29
Tone 2	800/1000Hz @ 0.25 sec Alternating								Tone 17	Tone 5	Tone 29
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop								Tone 2	Tone 5	Tone 29
Tone 4	800/1000Hz @ 1Hz Sweeping								Tone 6	Tone 5	Tone 29
Tone 5	2400Hz Continuous								Tone 3	Tone 20	Tone 29
Tone 6	2400/2900Hz @ 7Hz Sweeping								Tone 7	Tone 5	Tone 29
Tone 7	2400/2900Hz @ 1Hz Sweeping								Tone 10	Tone 5	Tone 29
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping								Tone 2	Tone 5	Tone 29
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	MMMM							Tone 15	Tone 2	Tone 29
Tone 10	2400/2900Hz @ 2Hz Alternating								Tone 7	Tone 5	Tone 29
Tone 11	1000Hz @ 1Hz Intermittent								Tone 2	Tone 5	Tone 29
Tone 12	800/1000Hz @ 0.875Hz Alternating								Tone 4	Tone 5	Tone 29
Tone 13	2400Hz @ 1Hz Intermittent								Tone 15	Tone 5	Tone 29
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent								Tone 4	Tone 5	Tone 29
Tone 15	800Hz Continuous	-							Tone 2	Tone 5	Tone 29
Tone 16	660Hz 150mS on, 150mS off Intermittent								Tone 18	Tone 5	Tone 29
Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001								Tone 2	Tone 27	Tone 29
Tone 18	660Hz 1.8sec on, 1.8sec off Intermittent								Tone 2	Tone 5	Tone 29
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265								Tone 2	Tone 5	Tone 29
Tone 20	660Hz Continuous								Tone 2	Tone 5	Tone 29
Tone 21	554Hz/440Hz @ 1Hz Alternating								Tone 2	Tone 5	Tone 29
Tone 22	544Hz @ 0.875 sec. Intermittent								Tone 2	Tone 5	Tone 29
Tone 23	800Hz @ 2Hz Intermittent								Tone 6	Tone 5	Tone 29
Tone 24	800/1000Hz @ 50Hz Sweeping	<u> ////////////////////////////////////</u>							Tone 29	Tone 5	Tone 29
Tone 25	2400/2900Hz @ 50Hz Sweeping								Tone 29	Tone 5	Tone 29
Tone 26	Bell	Ж !!!!!!!!!!!							Tone 2	Tone 15	Tone 29
Tone 27	554Hz Continuous								Tone 26	Tone 5	Tone 29
Tone 28	440Hz Continuous								Tone 2	Tone 5	Tone 29
Tone 29	800/1000Hz @ 7Hz Sweeping				L				Tone 7	Tone 5	Tone 29
Tone 30	300Hz Continuous					L			Tone 2	Tone 5	Tone 29
Tone 31	660/1200Hz @ 1Hz Sweeping								Tone 26	Tone 5	Tone 29
Tone 32	Two tone chime.								Tone 26	Tone 15	Tone 29
Tone 33	745Hz @ 1Hz Intermittent								Tone 2	Tone 5	Tone 29
Tone 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore								Tone 38	Tone 45	Tone 29
Tone 35	420Hz @ 0.625 sec Australian Alert			▝					Tone 36	Tone 5	Tone 29
Tone 36	500-1200Hz 3.75sec /0.25sec. Australian Evac.								Tone 35	Tone 5	Tone 29
Tone 37	1000Hz Continuous - PFEER Toxic Gas	-							Tone 9	Tone 45	Tone 29
Tone 38	2000Hz Continuous	-			▝				Tone 34	Tone 45	Tone 29
Tone 39	800Hz 0.25sec on, 1 sec off Intermittent								Tone 23	Tone 17	Tone 29
Tone 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001								Tone 31	Tone 27	Tone 29
Tone 41	Motor Siren - slow rise to 1200 Hz								Tone 2	Tone 5	Tone 29
Tone 42	Motor Siren - slow rise to 800 Hz								Tone 2	Tone 5	Tone 29
Tone 43	1200 Hz Continuous								Tone 2	Tone 5	Tone 29
Tone 44	Motor Siren - slow rise to 2400 Hz								Tone 2	Tone 5	Tone 29
Tone 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. Alarm								Tone 38	Tone 34	Tone 29