

# **INSTRUCTION MANUAL**

A105NAX, AL105NAXH & AL105NAXX APPELLO **Alarm Tone and Voice Annunciation Sounder** 

#### 1) Introduction

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

- A105NAX Sounder
- AL105NAXH High Output LED Sounder-Beacon Combination unit
- AL105NAXX Xenon Strobe Sounder-Beacon Combination unit

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

#### **Operating and Marking**

have the following units operating requirements and limitations.

Unit Type No.		Range	Current
Sounder only out	tputs		
A105NAX DC	24Vdc	10-30Vdc	256mA
	Max Cur	rent 256mA	@ 30Vdc
A105NAX AC	115Vac	90-260Vac	112mA
	230Vac	90-260Vac	124mA
	Max Cur	rent 127mA	@ 260Vac

AL105NAXH / AL105NAXX combined units - Add selected sounder & beacon currents to calculate total current required.

	Beacon	only outputs	
AL105NAXH DC	24Vdc	10-30Vdc	157mA
	Max Cur	rent 166mA @	2 30Vdc
AL105NAXH AC	115Vac	90-260Vac	60mA
	230Vac	90-260Vac	35mA
	Max Cur	rent 60mA @	90Vac
AL105NAXX DC	12Vdc	10-14Vdc	500mA
	24Vdc	20-28Vdc	250mA
AL105NAXX AC	115Vac	+/-10%Vac	100mA
	230Vac	+/-10%Vac	50mA

Operating Temp: -20 to +55°C

Type 4 / 4X / 3R / 13, IP66 IP Rating:

## Marking:

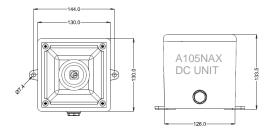


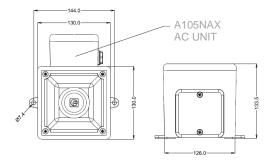




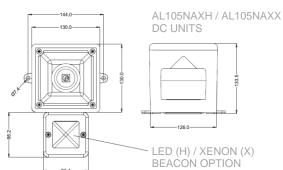
### **Installation & Wiring Requirements**

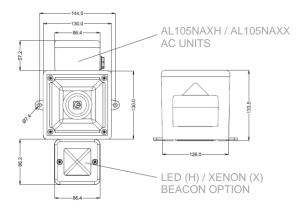
#### A105NAX





#### AL105NAXH / AL105NAXX

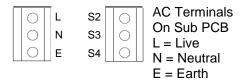




Always de-energize unit before removing cover. The installation of the units must be in accordance with any local codes that may apply and should only be carried out by a competent trained electrical engineer.

The power terminals on the control unit are clearly marked and will accept up to 1.5mm<sup>2</sup> cable.





The AL105N units will have the beacon already prewired to the unit so no extra wiring is required.

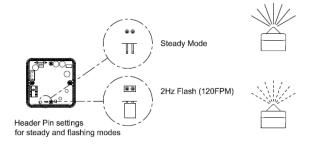
#### 4) Beacon Set-up

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 AC units must be temporarily powered from either a 12V battery or a separate 10-30VDC isolated power supply, connected directly to the DC terminals on the main appello PCB. This is because the AC units power supply is not isolated and there may be 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.

#### <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.

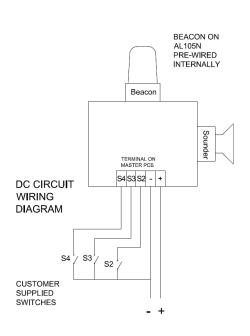
Warning!: The negative supply must remain connected to the -(ve) terminal and a link made from this to the appropriate stage (S2) terminal otherwise the unit will be damaged.

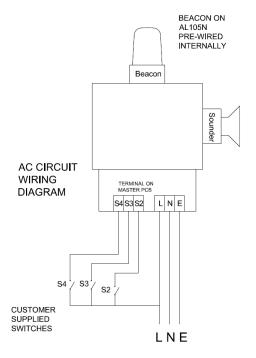
To change to the second, third or fourth stage tone link the -ve supply line to terminal relevant

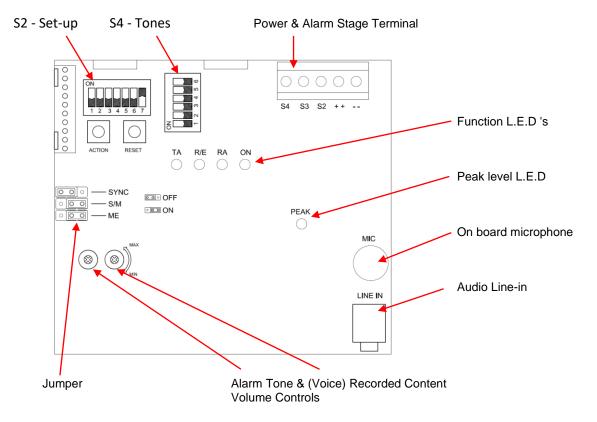
To change to the second, third or fourth stage tone, link the -ve supply line to terminal relevant stage terminal. Ie. for Stage 2 link the -ve supply to the S2 terminal, for Stage 3 link the -ve supply to the S3 terminal etc.

# 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.







## 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
  - 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.

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	→ NON	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 7	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  STAGE 4  ON  1 2 3 4 5 6 7	TA	R/E	RA O	ON (
2	Switch on power or Press reset button	RESET	ТА	R/E	RA O	ON
3а	Unit will sound alarm tone and then recorded content repeatedly		TA	R/E	RA O	ON O

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## **Quick Ref - Recording Mode (Stage 1 illustrated)**

1	For Stage 1: Set Switch 'S2' positions 2,3 & 4 to 'ON'  Alternatively for :  For Stage 2: Set Switch 'S2' positions 3 & 4 to 'ON'  For Stage 3: Set Switch 'S2' positions 2 & 4 to 'ON'  For Stage 4: Set Switch 'S2' position 4 to 'ON'  To record from Line-in instead of the on board microphone follow above step 1 but set Switch 'S2' position 4 to OFF	STAGE 2  CN  STAGE 2  CN  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 R/E RA ON
2	Switch on power or Press reset button	RESET	TA R/E RA ON
3a	Press action button: Start recording	ACTION	TA R/E RA ON
3b	Speak into microphone or plug line-in.  It is suggested that a 5cm gap is maintained to the microphone.  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.		TA R/E RA ON O O O O O O O O O O O O O O O O O O
4	Press action button: Stop recording	ACTION	TA R/E RA ON

## 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  STAGE 4  ON  1 2 3 4 5 6 7	TA	R/E	RA O	ON O
2	Switch on power or Press reset button	RESET	ТА	R/E	RA	ON O
3a	Press action button: Erase will begin	ACTION	ТА	R/E	RA O	ON O
3b	erase complete		ТА	R/E	RA O	ON O

## 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 R/E RA ON
2	Set jumper J4 'ME' to ON position (centre and right pin connected)	SYNC SYNC SOO — S/M OO O ME	
3	Switch on power or Press reset button	RESET	TA R/E RA ON
4a	Press action button: Erase will begin	ACTION	TA R/E RA ON
4b	erase complete		TA R/E RA ON
5	Reset Jumper J4 'ME' to OFF position	SYNC   SYNC	

**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 J6 to Sync on Set jumper J5 S/M on Master unit to master position (on)	○ ○ ○ ○ ○ ○ SYNC ○ ○ ○ ○ ○ ─ S/M ○ ○ ○ ○ ─ ME	OOO OFF	ТА	R/E	RA (	on O
2	Set jumper J5 S/M on Slave unit to slave position (off)  Position of S2 switch does not affect synch operation.	○ ○ ○ ○ ○ ○ SYNC ○ ○ ○ ○ ○ ○ S/M ○ ○ ○ ○ ● ME	OOO OFF				
	Switch on power onto the Master unit first		Master Unit	ТА	R/E	RA	ON O
3	Then switch power onto the Slave unit		Slave Unit	ТА	R/E	RA	ON
	Press action button on the	٥	Master Unit	ТА	R/E	RA O	ON
4a	Master Unit: Synchronisation will begin	(5)	Slave Unit	ТА	R/E	RA O	ON
	Synchronisation		Master Unit	ТА	R/E	RA	ON
4b	complete Switch off Power to units		Slave Unit	ТА	R/E	RA	ON
5	Reset on both units jumper J6 to Sync off Set jumper J5 S/M on both units to Master position (on)	○ ○ ○ ○ ○ SYNC ○ ○ ○ ○ ○ S/M ○ ○ ○ ○ ME	OOO OR				

**Table 1: Tone selection table** 

Stage   Frequency Description			Switch				Stage 2	Stage 3	Stage 4			
Tone 2 800/1000Hz @ 0.25 sec Alternating Tone 3 500/1200Hz @ 0.12 L0 Sees Slow Whorp Tone 5 2400Hz Continuous Tone 6 201/2000Hz @ 1Hz Sweeping Tone 5 2400Hz Continuous Tone 6 2400/200Hz @ 1Hz Sweeping Tone 6 200/200Hz @ 1Hz Sweeping Tone 7 200/200Hz @ 1Hz Sweeping Tone 8 8 500/1200/500Hz @ 1Hz Sweeping Tone 8 8 500/1200/500Hz @ 1Hz Sweeping Tone 9 1200/500Hz @ 1Hz Intermittent Tone 10 1000Hz @ 1Hz Intermittent Tone 11 1000Hz @ 1Hz Intermittent Tone 12 000/1000Hz @ 1Hz Intermittent Tone 13 000Hz @ 1Hz Intermittent Tone 14 800Hz 0.25sec on, 1 sec off Intermittent Tone 15 300Hz Continuous Tone 16 000Hz 1/60WS on 1,8sec off Intermittent Tone 16 00Hz 1/60WS on 1,8sec off Intermittent Tone 17 544Hz (100mS)440Hz (400mS) - NF S 32-001 Tone 19 1 400Hz 1/60Hz 3,8sec on, 1 sec off Intermittent Tone 19 1 400Hz 1/60WS off See See Intermittent Tone 10 54Hz (100mS)440Hz (400mS) - NF S 32-001 Tone 19 1 400Hz 1/60Hz 1/60Hz 1/60Hz 3,8sec on, 1 sec off Intermittent Tone 10 54Hz (100mS)440Hz (400mS) - NF S 32-001 Tone 10 54Hz (100mS)440Hz (400mS) - NF S 32-001 Tone 10 54Hz (100mS)440Hz (400mS) - NF S 32-001 Tone 10 54Hz (100mS)440Hz (400mS) - NF S 32-001 Tone 10 1 400Hz (100Hz 1/60Hz 1/	Stage 1	Frequency Description		1	2	3	4	5	6	(S2)	(S3)	(S4)
Tone 3 5001/2000Hz 8 1Hz Sweeping	Tone 1	340 Hz Continuous								Tone 2	Tone 5	Tone 29
Torne 4 800/1000Hz @ 1Hz Sweeping	Tone 2	800/1000Hz @ 0.25 sec Alternating								Tone 17	Tone 5	Tone 29
Tone 5 2400Hz Continuous Tone 6 2400/2900Hz @ This Sweeping Tone 7 2400/2900Hz @ This Sweeping Tone 8 500/1200/500Hz @ This Sweeping Tone 9 1200/500Hz @ This Sweeping Tone 10 2400/2900Hz @ This Sweeping Tone 10 2400/2900Hz @ This Sweeping Tone 10 2400/2900Hz @ This Sweeping Tone 11 1000Hz @ This Dwin This Sweeping Tone 11 1000Hz @ This Sweeping Tone 12 500/1400Hz @ This Sweeping Tone 13 2400Hz @ This Sweeping Tone 14 600Hz 258ce on, 1 see of Intermittent Tone 15 Tone 25 Tone 29 Tone 15 500Hz Continuous Tone 16 600Hz 150mS on, 150mS off Intermittent Tone 17 500Hz (10mS)44Hz (10mS) NF S 32-2001 Tone 18 660Hz 1, 150mS on, 150mS off Intermittent Tone 19 1, 444Hz (10mS)44Hz (10mS) NF S 32-2001 Tone 19 464Hz (10mS)44Hz (10mS) NF S 32-2001 Tone 10 464Hz (10mS)44Hz (10mS) NF S 32-2001 Tone 10 466Hz (10mS)44Hz (10mS)44Hz (10mS) NF S 32-2001 Tone 10 500Hz (20Hz)44Hz (10mS)44Hz (10mS) NF S 32-2001 Tone 10 500Hz (20Hz)44Hz (10mS)44Hz (10mS) NF S 32-2001 Tone 20 500Hz (20Hz)44Hz (10mS)44Hz (10mS) NF S 32-2001 Tone 20 500Hz (20Hz)44Hz (10mS)44Hz (1	Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop								Tone 2	Tone 5	Tone 29
Tone 6 2400/2900Hz @ 7Hz Sweeping	Tone 4	800/1000Hz @ 1Hz Sweeping								Tone 6	Tone 5	Tone 29
Tone 7 2400/2900Hz @ 1Hz Sweeping	Tone 5	2400Hz Continuous								Tone 3	Tone 20	Tone 29
Tone 8 5001/1200/500Hz @ 1Hz DNIV/PEER PT.A.P.  Tone 10 2400/2900Hz @ 1Hz DNIV/PEER PT.A.P.  Tone 10 2400/2900Hz @ 2Hz DNIV/PEER PT.A.P.  Tone 11 000Hz @ 1Hz Intermittent  Tone 12 Tone 25 Tone 29 Tone 26 Tone 29 Tone 12 Tone 21 Tone 22 Tone 24 Tone 25 Tone 29 Tone 25 Tone 29 Tone 26 Tone 26 Tone 26 Tone 27 Tone 28 Tone 27 Tone 28 Tone 27 Tone 28 Tone 27 Tone 28 Tone 29 Tone 27 Tone 28 Tone 29 Tone 27 Tone 29 Tone 28 Tone 29 Tone 28 Tone 29 To	Tone 6	2400/2900Hz @ 7Hz Sweeping								Tone 7	Tone 5	Tone 29
Tone 9 1200500Hz @ 1Hz - DIN / PFER P. T.A. P.  Tone 10 2400/2900Hz @ 1Hz Intermittent  Tone 11 1000Hz @ 1Hz Intermittent  Tone 12 1000Hz @ 1Hz Intermittent  Tone 12 1000Hz @ 0.875Hz Altermating  Tone 12 2400Hz @ 1Hz Intermittent  Tone 12 1000Hz @ 0.875Hz Altermating  Tone 12 2400Hz @ 1Hz Intermittent  Tone 14 1000Hz @ 0.875Hz Altermating  Tone 15 1000Hz @ 0.875Hz Altermating  Tone 16 1000Hz @ 0.875Hz Altermating  Tone 17 1000Hz @ 0.875Hz Altermating  Tone 18 1000Hz @ 0.875Hz Altermating  Tone 19 1000Hz @ 0.875Hz Altermating  Tone 19 1000Hz @ 0.875Hz Altermating  Tone 20 1000Hz @ 0.875Hz Altermating  Tone 20 1000Hz @ 0.875Hz Altermating  Tone 21 1000Hz @ 0.875Hz Altermating  Tone 22 1000Hz @ 0.875Hz Altermating  Tone 23 1000Hz @ 0.875Hz Altermating  Tone 24 1000Hz @ 0.875Hz Altermating  Tone 25 56Hz Altermating  Tone 25 56Hz Altermating  Tone 26 1000Hz @ 0.875Hz Altermating  Tone 27 1000Hz @ 0.875Hz Altermating  Tone 28 1000Hz @ 0.875Hz Altermating  Tone 29 1000Hz @ 0.875Hz Altermating  Tone 29 1000Hz @ 0.875Hz Altermating  Tone 20 1000Hz @ 0	Tone 7	2400/2900Hz @ 1Hz Sweeping								Tone 10	Tone 5	Tone 29
Tone 11 1000Hz @ 1Hz Intermittent	Tone 8	500/1200/500Hz @ 0.3Hz Sweeping								Tone 2	Tone 5	Tone 29
Tone 11 1000Hz @ 1Hz Intermittent	Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	MMM							Tone 15	Tone 2	Tone 29
Tone 12 800/1000Hz @ 0.875Hz Alternating Tone 13 2400Hz @ 1.875Hz Alternating Tone 14 800Hz Continuous Tone 15 800Hz Continuous Tone 16 800Hz Continuous Tone 16 800Hz Continuous Tone 16 800Hz Continuous Tone 17 844Hz (100mS)4440Hz (400mS) - NF S 32-001 Tone 18 60Hz 1.88ec on, 1.8ec off intermittent Tone 18 80Hz 1.88ec on, 1.88ec off intermittent Tone 19 1.44Hz-1.64Hz 1s, 1.64Hz-1.44Hz 0.5s-NFC48-265 Tone 29 660Hz Continuous Tone 20 660Hz Continuous Tone 20 660Hz Continuous Tone 21 544Hz 440Hz 26 Htz Alternating Tone 21 544Hz 440Hz 26 Htz Alternating Tone 22 544Hz 26 0.875 sec. Intermittent Tone 23 800Hz 2.85Hz 2.88ec on, 1.8ec off intermittent Tone 24 800/1000Hz 2 85Hz 2.88ec on, 1.8ec off intermittent Tone 25 2400/2800Hz 26 S0Hz 2.88ec on, 1.8ec off intermittent Tone 26 70ne 29 70ne 29 70ne 29 70ne 20 70ne 29 70ne 20	Tone 10	2400/2900Hz @ 2Hz Alternating								Tone 7	Tone 5	Tone 29
Tone 13 2400Hz @ 1Hz Intermittent	Tone 11	1000Hz @ 1Hz Intermittent								Tone 2	Tone 5	Tone 29
Tone 14 800Hz 0.25sec on, 1 sec off Intermittent	Tone 12	800/1000Hz @ 0.875Hz Alternating								Tone 4	Tone 5	Tone 29
Tone 15 800Hz Continuous  Tone 16 660Hz 150mS on, 150mS off Intermittent  Tone 17 544Hz (100mS)/440Hz (400mS) - NF S 32-001  Tone 18 660Hz 1.8sec on, 1.8sec off Intermittent  Tone 19 1.4KHz-1.6KHz 15, 1.6KHz-1.4KHz 0.5s - NFC48-265  Tone 20 660Hz Continuous  Tone 21 Tone 2 Tone 5 Tone 29  Tone 20 660Hz Continuous  Tone 2 Tone 5 Tone 29  Tone 20 660Hz Continuous  Tone 2 Tone 5 Tone 29  Tone 20 660Hz Continuous  Tone 2 Tone 5 Tone 29  Tone 20 660Hz Continuous  Tone 2 Tone 5 Tone 29  Tone 20 660Hz Continuous  Tone 2 Tone 5 Tone 29  Tone 20 544Hz @ 18z Alternating  Tone 2 Tone 5 Tone 29  Tone 22 544Hz @ 18z Alternating  Tone 2 Tone 5 Tone 29  Tone 23 800Hz @ 2Hz Intermittent  Tone 2 Tone 5 Tone 29  Tone 24 800/1000Hz @ 50Hz Sweeping  Tone 25 2400/2900Hz @ 50Hz Sweeping  Tone 26 Bell  Tone 27 Tone 5 Tone 29  Tone 28 40Hz Continuous  Tone 29 Tone 5 Tone 29  Tone 29 800/1000Hz @ 7Hz Sweeping  Tone 29 800/1000Hz @ 7Hz Sweeping  Tone 29 800/1000Hz @ 1Hz Sweeping  Tone 20 Tone 5 Tone 29  Tone 30 300Hz Continuous  Tone 20 Tone 5 Tone 29  Tone 31 660/1200Hz @ 1Hz Sweeping  Tone 20 Tone 5 Tone 29  Tone 32 Two tone chime.  Tone 34 1000 & 2000Hz @ 1Hz Sweeping  Tone 35 Tone 29  Tone 36 500-1200Hz @ 1Hz Sweeping  Tone 27 Tone 5 Tone 29  Tone 38 1000Hz Continuous  Tone 39 Tone 5 Tone 29  Tone 30 300Hz Continuous  Tone 30 Tone 5 Tone 29  Tone 31 Tone 20 Tone 5 Tone 29  Tone 32 Two tone chime.  Tone 35 Tone 29 Tone 5 Tone 29  Tone 36 500-1200Hz @ 1.5 sec Alternating - Singapore  Tone 37 Tone 5 Tone 29  Tone 38 1000Hz Continuous - PEER Toxic Gas  Tone 39 800Hz 0.2 Seec Alternating - Singapore  Tone 31 Tone 21 Tone 5 Tone 29  Tone 33 Tone 5 Tone 29  Tone 34 1000 & 2000Hz Continuous - PEER Toxic Gas  Tone 35 Tone 29 Tone 5 Tone 29  Tone 36 500-1200Hz 3.75sec / 0.25sec . Australian Evac:  Tone 37 Tone 38 Tone 45 Tone 29  Tone 39 800Hz 0.25sec on, 1 sec off Intermittent  Tone 20 Tone 5 Tone 29  Tone 40 Motor Siren - slow rise to 1200 Hz  Tone 41 Motor Siren - slow rise to 1200 Hz  Tone 42 Tone 5 Tone 29  Tone 44 Motor Siren - slow ris	Tone 13	2400Hz @ 1Hz Intermittent								Tone 15	Tone 5	Tone 29
Tone 16 660Hz 150mS on, 150mS off Intermittent	Tone 14	800Hz 0.25sec on, 1 sec off Intermittent								Tone 4	Tone 5	Tone 29
Tone 17 544Hz (100mS)/440Hz (400mS) - NF S 32-001  Tone 18 660Hz 1.8sec on, 1.8sec off Intermittent  Tone 28 Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 1 Tone 29 Tone 29 Tone 29 1 1.4kHz-1.6kHz 1s, 1.6kHz-1.4kHz 0.5s - NFC48-265  Tone 20 660Hz 0.7sec off Intermittent  Tone 20 Tone 5 Tone 29 Tone 20 Tone 5 Tone 29 Tone 20 1 Tone 20 Tone 5 Tone 29 Tone 20 554Hz/440Hz @ Hz Alternating  Tone 21 554Hz/440Hz @ Hz Alternating  Tone 22 Tone 5 Tone 29 Tone 5 Tone 29 Tone 20 Ton	Tone 15	800Hz Continuous								Tone 2	Tone 5	Tone 29
Tone 18 660Hz 1.8sec on, 1.8sec off Intermittent	Tone 16	660Hz 150mS on, 150mS off Intermittent								Tone 18	Tone 5	Tone 29
Tone 19 1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265  Tone 20 660Hz Continuous  Tone 21 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 2 Stone 29  Tone 24 800/1000Hz @ 50Hz Sweeping  Tone 25 2400/2900Hz @ 50Hz Sweeping  Tone 26 Tone 5 Tone 29  Tone 27 Tone 5 Tone 29  Tone 28 800/1000Hz @ 50Hz Sweeping  Tone 29 Tone 5 Tone 29  Tone 29 Tone 26 Bell  Tone 2 Tone 5 Tone 29  Tone 27 Tone 15 Tone 29  Tone 28 440Hz Continuous  Tone 29 Tone 5 Tone 29  Tone 29 Tone 20 Tone 5 Tone 29  Tone 29 Tone 20 Tone 5 Tone 29  Tone 29 Tone 20 Tone 5 Tone 29  Tone 20 Tone 20 Tone 5 Tone 29  Tone 20 Tone 20 Tone 5 Tone 29  Tone 21 Tone 20 Tone 5 Tone 29  Tone 22 Tone 5 Tone 29  Tone 23 Tone 24 440Hz Continuous  Tone 26 Tone 5 Tone 29  Tone 27 Tone 5 Tone 29  Tone 28 440Hz Continuous  Tone 27 Tone 5 Tone 29  Tone 30 300Hz Continuous  Tone 28 Tone 30 Tone 29 Tone 5 Tone 29  Tone 31 Tone 20 Tone 5 Tone 29  Tone 32 Tone 5 Tone 29  Tone 33 Tone 45 Tone 29  Tone 34 1000 & 2000Hz @ 1Hz Sweeping  Tone 35 Tone 25 Tone 29  Tone 36 500-1200Hz @ 1Hz Sweeping  Tone 36 Tone 5 Tone 29  Tone 37 1000Hz Continuous -PFEER Toxic Gas  Tone 38 000Hz Continuous -PFEER Toxic Gas  Tone 39 800Hz Costinuous -PFEER Toxic Gas  Tone 30 542Hz @ 0.625 sec Australian Alert  Tone 30 542Hz @ 0.625 sec On, 1 sec off Intermittent  Tone 30 542Hz @ 0.625 sec On, 1 sec off Intermittent  Tone 31 Tone 27 Tone 5 Tone 29  Tone 33 000Hz Continuous -PFEER Toxic Gas  Tone 34 1000Hz Continuous -PFEER Toxic Gas  Tone 35 100e 2 Tone 5 Tone 29  Tone 42 Motor Siren - slow rise to 800 Hz  Tone 44 Motor Siren - slow rise to 800 Hz  Tone 44 Motor Siren - slow rise to 800 Hz  Tone 45 10ne 29 Tone 5 Tone 29  Tone 44 Motor Siren - slow rise to 2400 Hz  Tone 25 Tone 25 Tone 29  Tone 44 Motor Siren - slow rise to 2400 Hz	Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001								Tone 2	Tone 27	Tone 29
Tone 20 660Hz Continuous  Tone 21 554Hz/440Hz @ 1Hz Alternating  Tone 22 544Hz @ 0.875 sec. Intermittent  Tone 23 54Hz @ 0.875 sec. Intermittent  Tone 24 Tone 55 Tone 29  Tone 25 54Hz @ 0.875 sec. Intermittent  Tone 26 Tone 5 Tone 29  Tone 27 564Hz @ 0.875 sec. Intermittent  Tone 28 Tone 29 Tone 5 Tone 29  Tone 29 Tone 29 Tone 5 Tone 29  Tone 29 Tone 29 Tone 5 Tone 29  Tone 20 Etal	Tone 18	660Hz 1.8sec on, 1.8sec off Intermittent								Tone 2	Tone 5	Tone 29
Tone 21 554Hz/440Hz @ 1Hz Alternating Tone 22 544Hz @ 0.875 sec. Intermittent Tone 23 800Hz @ 2Hz Intermittent Tone 24 800/1000Hz @ 50Hz Sweeping Tone 25 2400/2900Hz @ 50Hz Sweeping Tone 26 2400/2900Hz @ 50Hz Sweeping Tone 27 554Hz Continuous Tone 28 10000Hz @ 50Hz Sweeping Tone 28 1000/2900Hz @ 50Hz Sweeping Tone 29 10ne 50 10ne 50 10ne 29 10ne 50 10ne 29 10ne 50 10ne 29 10ne 50 10ne 29 10ne 50 10ne 50 10ne 50 10ne 29 10ne 50	Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265								Tone 2	Tone 5	Tone 29
Tone 22 544Hz @ 0.875 sec. Intermittent	Tone 20	660Hz Continuous								Tone 2	Tone 5	Tone 29
Tone 23 800Hz @ 2Hz Intermittent	Tone 21	554Hz/440Hz @ 1Hz Alternating								Tone 2	Tone 5	Tone 29
Tone 24 800/1000Hz @ 50Hz Sweeping	Tone 22	544Hz @ 0.875 sec. Intermittent								Tone 2	Tone 5	Tone 29
Tone 25	Tone 23	800Hz @ 2Hz Intermittent								Tone 6	Tone 5	Tone 29
Tone 26 Bell	Tone 24	800/1000Hz @ 50Hz Sweeping	<b>/////////////////////////////////////</b>							Tone 29	Tone 5	Tone 29
Tone 27 554Hz Continuous  Tone 28 440Hz Continuous  Tone 29 800/1000Hz @ 7Hz Sweeping  Tone 30 300Hz Continuous  Tone 30 300Hz Continuous  Tone 31 660/1200Hz @ 1Hz Sweeping  Tone 32 Two tone chime.  Tone 32 Two tone chime.  Tone 32 Two tone chime.  Tone 34 1000 & 2000Hz @ 0.5 sec Alternating - Singapore  Tone 34 200Hz @ 0.625 sec Australian Alert  Tone 35 Tone 29  Tone 36 500-1200Hz 3.75sec /0.25sec. Australian Evac.  Tone 37 1000Hz Continuous - PFEER Toxic Gas  Tone 38 2000Hz Continuous  Tone 38 2000Hz Continuous  Tone 38 2000Hz Continuous  Tone 38 1000Hz Continuous  Tone 39 800Hz 0.25sec on, 1 sec off Intermittent  Tone 40 544Hz (100mS)/440Hz (400mS) - NF S 32-001  Tone 42 Motor Siren - slow rise to 1200 Hz  Tone 43 1200 Hz Continuous  Tone 29 Tone 5 Tone 29  Tone 44 Motor Siren - slow rise to 2400 Hz  Tone 29 Tone 29 Tone 5 Tone 29  Tone 44 Motor Siren - slow rise to 2400 Hz	Tone 25	2400/2900Hz @ 50Hz Sweeping	<b>/////////////////////////////////////</b>							Tone 29	Tone 5	Tone 29
Tone 28	Tone 26	Bell	) IIIIIIIIII							Tone 2	Tone 15	Tone 29
Tone 29 800/1000Hz @ 7Hz Sweeping  Tone 30 300Hz Continuous  Tone 31 660/1200Hz @ 1Hz Sweeping  Tone 32 Two tone chime.  Tone 32 Two tone chime.  Tone 33 745Hz @ 1Hz Intermittent  Tone 34 1000 & 2000Hz @ 0.5 sec Alternating - Singapore  Tone 35 420Hz @ 0.625 sec Australian Alert  Tone 36 500-1200Hz 3.75sec /0.25sec. Australian Evac.  Tone 37 1000Hz Continuous - PFEER Toxic Gas  Tone 38 2000Hz Continuous  Tone 39 800Hz 0.25sec on, 1 sec off Intermittent  Tone 29 Tone 40 544Hz (100mS)/440Hz (400mS) - NF S 32-001  Tone 42 Motor Siren - slow rise to 800 Hz  Tone 43 1200 Hz Continuous  Tone 44 Motor Siren - slow rise to 2400 Hz  Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 Tone 44 Motor Siren - slow rise to 2400 Hz  Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 Tone 40 1200 Hz  Tone 41 Motor Siren - slow rise to 800 Hz  Tone 42 Tone 5 Tone 29 Tone 29 Tone 29 Tone 40 1200 Hz  Tone 42 Motor Siren - slow rise to 800 Hz  Tone 44 Motor Siren - slow rise to 2400 Hz	Tone 27	554Hz Continuous								Tone 26	Tone 5	Tone 29
Tone 30 300Hz Continuous  Tone 31 660/1200Hz @ 1Hz Sweeping  Tone 32 Two tone chime.  Tone 32 Two tone chime.  Tone 33 745Hz @ 1Hz Intermittent  Tone 34 1000 & 2000Hz @ 0.5 sec Alternating - Singapore  Tone 35 420Hz @ 0.625 sec Australian Alert  Tone 36 500-1200Hz 3.75sec /0.25sec. Australian Evac.  Tone 37 1000Hz Continuous - PFEER Toxic Gas  Tone 38 2000Hz Continuous  Tone 39 800Hz 0.25sec on, 1 sec off Intermittent  Tone 40 544Hz (100mS)/440Hz (400mS) - NF S 32-001  Tone 42 Motor Siren - slow rise to 1200 Hz  Tone 43 1200 Hz Continuous  Tone 44 Motor Siren - slow rise to 2400 Hz  Tone 29 Tone 29  Tone 24 Tone 29  Tone 27 Tone 29  Tone 29 Tone 29  Tone 40 Motor Siren - slow rise to 2400 Hz  Tone 29 Tone 29  Tone 29 Tone 29  Tone 29 Tone 29  Tone 40 Motor Siren - slow rise to 2400 Hz  Tone 29 Tone 29  Tone 29 Tone 30 Tone 29  Tone 29 Tone 30 Tone 29  Tone 29 Tone 30 Tone 29  Tone 40 Motor Siren - slow rise to 2400 Hz  Tone 29 Tone 29  Tone 40 Motor Siren - slow rise to 2400 Hz  Tone 29 Tone 29  Tone 40 Motor Siren - slow rise to 2400 Hz	Tone 28	440Hz Continuous								Tone 2	Tone 5	Tone 29
Tone 31 660/1200Hz @ 1Hz Sweeping  Tone 32 Two tone chime.  Tone 33 Two tone chime.  Tone 34 Tone 26 Tone 15 Tone 29  Tone 35 Tone 29  Tone 34 1000 & 2000Hz @ 0.5 sec Alternating - Singapore  Tone 35 420Hz @ 0.625 sec Australian Alert  Tone 36 Tone 37 Tone 38 Tone 45 Tone 29  Tone 37 1000Hz Continuous - PFEER Toxic Gas  Tone 38 2000Hz Continuous  Tone 39 800Hz 0.25sec on, 1 sec off Intermittent  Tone 29 Tone 40 544Hz (100mS)/440Hz (400mS) - NF S 32-001  Tone 41 Motor Siren - slow rise to 1200 Hz  Tone 43 1200 Hz Continuous  Tone 24 Motor Siren - slow rise to 2400 Hz  Tone 25 Tone 29  Tone 29 Tone 29  Tone 27 Tone 29  Tone 29 To	Tone 29	800/1000Hz @ 7Hz Sweeping								Tone 7	Tone 5	Tone 29
Tone 32 Two tone chime.  Tone 33 745Hz @ 1Hz Intermittent  Tone 29 Tone 34 1000 & 2000Hz @ 0.5 sec Alternating - Singapore  Tone 34 1000 & 2000Hz @ 0.5 sec Australian Alert  Tone 35 420Hz @ 0.625 sec Australian Alert  Tone 36 500-1200Hz 3.75sec /0.25sec. Australian Evac.  Tone 37 1000Hz Continuous - PFEER Toxic Gas  Tone 38 2000Hz Continuous  Tone 38 2000Hz Continuous  Tone 39 800Hz 0.25sec on, 1 sec off Intermittent  Tone 29 Tone 40 544Hz (100mS)/440Hz (400mS) - NF S 32-001  Tone 41 Motor Siren - slow rise to 1200 Hz  Tone 43 1200 Hz Continuous  Tone 29 Tone 29 Tone 29 Tone 29 Tone 42 Motor Siren - slow rise to 2400 Hz  Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 Tone 41 Motor Siren - slow rise to 2400 Hz  Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 Tone 41 Motor Siren - slow rise to 2400 Hz  Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 Tone 41 Motor Siren - slow rise to 2400 Hz	Tone 30	300Hz Continuous								Tone 2	Tone 5	Tone 29
Tone 33 745Hz @ 1Hz Intermittent	Tone 31	660/1200Hz @ 1Hz Sweeping								Tone 26	Tone 5	Tone 29
Tone 34 1000 & 2000Hz @ 0.5 sec Alternating - Singapore  Tone 35 420Hz @ 0.625 sec Australian Alert  Tone 36 500-1200Hz 3.75sec /0.25sec. Australian Evac.  Tone 37 1000Hz Continuous - PFEER Toxic Gas  Tone 38 2000Hz Continuous - PFEER Toxic Gas  Tone 39 800Hz 0.25sec on, 1 sec off Intermittent  Tone 39 800Hz 0.25sec on, 1 sec off Intermittent  Tone 29 Tone 40 544Hz (100mS)/440Hz (400mS) - NF S 32-001  Tone 41 Motor Siren - slow rise to 1200 Hz  Tone 43 1200 Hz Continuous  Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 Tone 41 Motor Siren - slow rise to 2400 Hz  Tone 29 Tone 41 Motor Siren - slow rise to 2400 Hz  Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 Tone 29 Tone 41 Motor Siren - slow rise to 2400 Hz	Tone 32	Two tone chime.								Tone 26	Tone 15	Tone 29
Tone 35	Tone 33	745Hz @ 1Hz Intermittent								Tone 2	Tone 5	Tone 29
Tone 36 500-1200Hz 3.75sec /0.25sec. Australian Evac.  Tone 37 1000Hz Continuous - PFEER Toxic Gas  Tone 38 2000Hz Continuous  Tone 39 800Hz 0.25sec on, 1 sec off Intermittent  Tone 40 544Hz (100mS)/440Hz (400mS) - NF S 32-001  Tone 41 Motor Siren - slow rise to 1200 Hz  Tone 42 Motor Siren - slow rise to 800 Hz  Tone 43 1200 Hz Continuous  Tone 35 Tone 5 Tone 29  Tone 29 Tone 20	Tone 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore								Tone 38	Tone 45	Tone 29
Tone 37 1000Hz Continuous - PFEER Toxic Gas  Tone 38 2000Hz Continuous  Tone 39 800Hz 0.25sec on, 1 sec off Intermittent  Tone 40 544Hz (100mS)/440Hz (400mS) - NF S 32-001  Tone 41 Motor Siren - slow rise to 1200 Hz  Tone 42 Motor Siren - slow rise to 800 Hz  Tone 43 1200 Hz Continuous  Tone 44 Motor Siren - slow rise to 2400 Hz  Tone 45 Tone 29  Tone 29 Tone 29  Tone 40 Tone 20 Tone 20  Tone 20 Tone 20 Tone 20  Tone 20 Tone 20 Tone 20  Tone 20 Tone 20 Tone 20  Tone 21 Tone 20 Tone 20  Tone 21 Tone 20 Tone 20  Tone 21 Tone 20 Tone 20  Tone 22 Tone 20 Tone 20  Tone 24 Motor Siren - slow rise to 2400 Hz	Tone 35	420Hz @ 0.625 sec Australian Alert								Tone 36	Tone 5	Tone 29
Tone 38 2000Hz Continuous  Tone 39 800Hz 0.25sec on, 1 sec off Intermittent  Tone 29 Tone 40 544Hz (100mS)/440Hz (400mS) - NF S 32-001  Tone 41 Motor Siren - slow rise to 1200 Hz  Tone 42 Motor Siren - slow rise to 800 Hz  Tone 43 1200 Hz Continuous  Tone 44 Motor Siren - slow rise to 2400 Hz  Tone 45 Tone 29 Tone 29 Tone 29 Tone 42 Tone 5 Tone 29 Tone 42 Tone 5 Tone 29 Tone 43 1200 Hz Tone 2 Tone 5 Tone 29 Tone 44 Motor Siren - slow rise to 2400 Hz	Tone 36	500-1200Hz 3.75sec /0.25sec. Australian Evac.								Tone 35	Tone 5	Tone 29
Tone 39 800Hz 0.25sec on, 1 sec off Intermittent  Tone 39 800Hz 0.25sec on, 1 sec off Intermittent  Tone 29 Tone 40 544Hz (100mS)/440Hz (400mS) - NF S 32-001  Tone 41 Motor Siren - slow rise to 1200 Hz  Tone 42 Motor Siren - slow rise to 800 Hz  Tone 43 1200 Hz Continuous  Tone 44 Motor Siren - slow rise to 2400 Hz  Tone 29	Tone 37	1000Hz Continuous - PFEER Toxic Gas								Tone 9	Tone 45	Tone 29
Tone 40 544Hz (100mS)/440Hz (400mS) - NF S 32-001  Tone 41 Motor Siren - slow rise to 1200 Hz  Tone 42 Motor Siren - slow rise to 800 Hz  Tone 43 1200 Hz Continuous  Tone 44 Motor Siren - slow rise to 2400 Hz  Tone 5 Tone 29  Tone 65 Tone 29  Tone 65 Tone 29  Tone 67 Tone 29  Tone 68 Tone 29  Tone 69 Tone 69	Tone 38	2000Hz Continuous								Tone 34	Tone 45	Tone 29
Tone 41 Motor Siren - slow rise to 1200 Hz  Tone 42 Motor Siren - slow rise to 800 Hz  Tone 43 1200 Hz Continuous  Tone 44 Motor Siren - slow rise to 2400 Hz  Tone 29  Tone 29  Tone 20	Tone 39	800Hz 0.25sec on, 1 sec off Intermittent								Tone 23	Tone 17	Tone 29
Tone 42 Motor Siren - slow rise to 800 Hz  Tone 43 1200 Hz Continuous  Tone 44 Motor Siren - slow rise to 2400 Hz  Tone 29  Tone 29  Tone 20	Tone 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001								Tone 31	Tone 27	Tone 29
Tone 43 1200 Hz Continuous  Tone 44 Motor Siren - slow rise to 2400 Hz  Tone 2 Tone 5 Tone 29  Tone 2 Tone 5 Tone 29	Tone 41	Motor Siren - slow rise to 1200 Hz								Tone 2	Tone 5	Tone 29
Tone 44 Motor Siren - slow rise to 2400 Hz	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 45 1KHz 1s on, 1s off Intermittent - PFEER Gen. Alarm	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