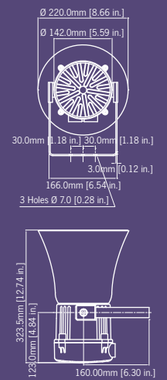
# MV121 Appello X User recordable alarm horn

**The MV121 Appello X is the next generation of user recordable alarm sounder capable of storing up to 2 minutes of content. The MV121 records, stores and plays back with unsurpassed clarity, user defined voice messages, music or sounds stored directly to non-volatile memory. Low current consumption and CD quality reproduction in a robust fire retardant Type 4/4X/3R/13, IP66/67 housing ensure the MV121 Appello X is suitable for all general signalling applications including fire, security and process control.**






## Tone table:

| Stage 1 | Frequency Description | Stg 2 | Stg 3 | Stg 4 |
|---|---|---|---|---|
| Tone 1 | 340 Hz Continuous | Tone 2 | Tone 5 | Tone 29 |
| Tone 2 | 800/1000Hz @ 0.25 sec Alternating - BS5839 Alarm tone | Tone 17 | Tone 5 | Tone 29 |
| Tone 3 | 500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop - NEN 2575:2000 | 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. | 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) - AFNOR 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 - AFNOR 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 | Tone 29 | Tone 5 | Tone 29 |
| Tone 25 | 2400/2900Hz @ 50Hz Sweeping | Tone 29 | Tone 5 | Tone 29 |
| Tone 26 | Bell | 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 | Tone 7 | Tone 5 | Tone 29 |
| Tone 30 | 300Hz Continuous | 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 - AS2220 | Tone 36 | Tone 5 | Tone 29 |
| Tone 36 | 500-1200Hz 3.75sec /0.25sec. Australian Evac. - AS2220 | 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) - AFNOR 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 |

Country specific or custom tone configurations and alarm frequencies are available upon request.

## Part codes:

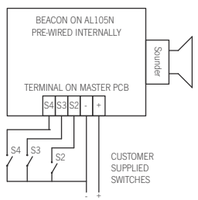
| Version: | Part code: |
|---|---|
| 14-30V dc | MV121DC024G-UL |
| 90-260V ac | MV121AC230G-UL |

## Current consumption:

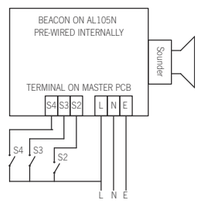
| Version: | Voltage: | Current : |
|---|---|---|
| 24V dc | 14-30V dc | 1.51A* |
| 230V ac | 90-260V ac 50/60Hz | 517mA* |

* current at nominal voltage on Tone 1

**DC CIRCUIT WIRING DIAGRAM**




**AC CIRCUIT WIRING DIAGRAM**




## Specification:

| | |
|---|---|
| Voice content output: | 111dB(A) @ 1 metre |
| Music content output: | 112dB(A) @ 1 metre |
| Alarm tone output: | 126dB(A) @ 1 metre |
| No. of alarm tones: | 45 (UKOOA/PFEER compliant) |
| No. of messages: | 4 (30 seconds each) |
| Volume controls: | Independent controls for user recorded content and built-in alarm tones. |
| Effective range: | 300m @ 1KHz |
| Voltages DC: | 24vdc (14-30vdc) |
| Voltages AC: | 90-260vac 50/60Hz |
| Ingress protection: | Type 4 / 4X / 3R / 13, IP66/67 |
| Rating: | Continuous |
| Housing material: | UL94V0 & 5VA FR ABS |
| Housing colour: | RAL7038 Grey |
| Fixings: | Stainless Steel |
| Cable entries: | 2 x M20 threaded gland entries. |
| Terminals: | 0.5 to 2.5mm² |
| Operating temp: | -25° to +55°C |
| Storage temp: | -40° to +70°C |
| Relative humidity: | 90% at 20°C |
| Weight : | DC: 2.10kg AC: 2.70kg |

## Features:

The MV121 Appello user recordable unit enables the recording of any type of content such as voice or music that can be played back at CD quality output at SPL's of up to 112dB(A) at 1 metre. This content can be reproduced repeatedly, alternating with or without one of the built-in 45 alarm tones. The alarm tone notification has an output of up to 126dB(A) at 1 metre.

For multiple unit installations the recording process is only required once to create a master unit which can then be used to program all other MV121 units on the system, guaranteeing synchronisation during playback, using the supplied 'Synch' cable.

- Direct content storage on non-volatile memory.
- CD quality reproduction.
- Message length: 4 x 30 seconds
- Easy message creation with built in microphone or line-in audio input.
- Volume controls for user content and alarm tones.
- Available with custom tone configurations and frequencies.
- Factory programming of user supplied content also available.
- UL approved for general signalling use.