

A100 Alarm Sounder

The A100 is a compact, high output, 104dB(A) alarm sounder. Low current consumption and high SPL in a robust fire retardant housing ensure the A100 is suitable for all general signalling applications including fire, security and process control.

Features:

- Automatic synchronisation on multi-sounder system.
- Continuously rated.
- Stainless steel fixings.
- Unit can be mounted using external lugs or internal BESA compatible fixing positions.
- Duplicate cable terminations (in & out for daisy-chain installations).
- Tropicalisation available on request.
- Available with custom tone configurations and frequencies.
- 'Programmable' version available:
 - 45 alarm tones
 - 4 remotely selectable stages
 - Any tone can be assigned to any stage
 - User configurable continuous frequency tone

Approvals:

- VdS approved to EN54-3 (CPD 89/106/EEC).
- UKOOA/PFEER compliant alarm tones.
- UL approved version available.
- GOST-R approved. Cert: POCC GB-JB05-B02228

Part codes:

Version:	Part code:
24V dc	A100DC24[x]
48V dc	A100DC48[x]
24V ac	A100AC24[x]
115V ac	A100AC115[x]
230V ac	A100AC230[x]
[x] = Housing colour:	G: Grey R: Red W: White

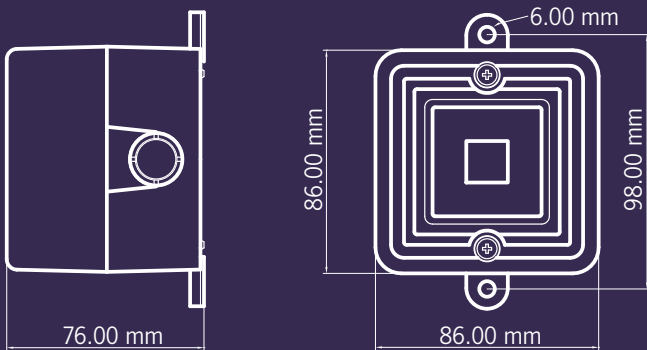
Suffix part number with '-P' for programmable, 4 stage, 45 tone version.

Suffix part number with '-UL' for UL approved version.



Available as a combination unit with Xenon, LED or filament bulb beacon - see the AL100 from the AlertAlight range.





Specification:

Maximum output:	104dB(A) @ 1 metre
Nominal output:	100dB(A) @ 1m +/- 3dB - Tone 2
No. of tones:	32 (UKOOA / PFEER compliant)
No. of stages:	3
Volume control:	Max. 100dB(A); Min. 90dB(A) - Tone 2
Effective range:	32m @ 1KHz
Voltages DC:	24V dc (10-30V dc); 48V dc (35-60V dc) [DC units can use 24V ac for single stage applications.]
Voltages AC:	24V ac; 115V ac; 230V ac
Stage switching:	Negative Reverse polarity stage switching on DC units.
Ingress protection:	IP56
Housing material:	High impact UL94 V0 & 5VA FR ABS
Colour:	Red (RAL3000), grey (RAL7038) & white.
Cable entries:	3 x M20 clearance gland entries in side & back
Terminals:	0.5 to 1.5mm ² cables.
Operating temperature:	-25 to +55°C
Storage temperature:	-40 to +70°C
Relative humidity:	90% at 20°C.
Weight :	DC: 0.26kg AC:0.37kg

*SPL data +/-3dB(A). Measured at optimum voltage.

Alarm sander:

Version:	Voltage range:	Current mA:
24V dc	10-30V dc	25mA*
48V dc	35-60V dc	50mA*
24V ac	50/60Hz +/-10%	40mA
115V ac	50/60Hz +/-10%	20mA
230V ac	50/60Hz +/-10%	15mA

* current at nominal voltage on Tone 2

Tone table:

Stage 1	Frequency Description	dB @ 1m	Stage 2	Stage 3
Tone 1	340 Hz Continuous	93dB(A) @ 1m	Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating - BS5839 Alarm tone	101dB(A) @ 1m	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop - NEN 2575:2000	101dB(A) @ 1m	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sweeping	101dB(A) @ 1m	Tone 6	Tone 5
Tone 5	2400Hz Continuous	103dB(A) @ 1m	Tone 3	Tone 20
Tone 6	2400/2900Hz @ 7Hz Sweeping	100dB(A) @ 1m	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sweeping	101dB(A) @ 1m	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	100dB(A) @ 1m	Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	101dB(A) @ 1m	Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz Alternating	104dB(A) @ 1m	Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz Intermittent	101dB(A) @ 1m	Tone 2	Tone 5
Tone 12	800/1000Hz @ 0.875Hz Alternating	101dB(A) @ 1m	Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz Intermittent	103dB(A) @ 1m	Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1.8sec off Intermittent	103dB(A) @ 1m	Tone 4	Tone 5
Tone 15	800Hz Continuous	103dB(A) @ 1m	Tone 2	Tone 5
Tone 16	660Hz 150mS on, 150mS off Intermittent	96dB(A) @ 1m	Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - AFNOR NF S 32-001	100dB(A) @ 1m	Tone 2	Tone 27
Tone 18	660Hz 1.8sec on, 1.8sec off Intermittent	96dB(A) @ 1m	Tone 2	Tone 5
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s - AFNOR NFC48-265	98dB(A) @ 1m	Tone 2	Tone 5
Tone 20	660Hz Continuous	96dB(A) @ 1m	Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz Alternating	100dB(A) @ 1m	Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec. Intermittent	100dB(A) @ 1m	Tone 2	Tone 5
Tone 23	800Hz @ 2Hz Intermittent	97dB(A) @ 1m	Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz Sweeping	101dB(A) @ 1m	Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz Sweeping	101dB(A) @ 1m	Tone 29	Tone 5
Tone 26	Bell	97dB(A) @ 1m	Tone 2	Tone 15
Tone 27	554Hz Continuous	100dB(A) @ 1m	Tone 26	Tone 5
Tone 28	440Hz Continuous	97dB(A) @ 1m	Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz Sweeping	101dB(A) @ 1m	Tone 7	Tone 5
Tone 30	300Hz Continuous	91dB(A) @ 1m	Tone 2	Tone 5
Tone 31	660/1200Hz @ 1Hz Sweeping	101dB(A) @ 1m	Tone 26	Tone 5
Tone 32	Two tone chime.	100dB(A) @ 1m	Tone 26	Tone 15

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

Tone No.	Alarm Stage 1 Specification	Description / Country	Switch Position					Alarm Stage 2 Specification	Description / Country	Alarm Stage 3 Specification	Description / Country
			1	2	3	4	5				
1	1KHz 1 second on 1 second off 7 times then on for 7 seconds off for 1 second. Repeat.	IMO Code 1a General Emergency Alarm	OFF	OFF	OFF	OFF	OFF	800Hz continuous	IMO Code 2 (High)	800Hz 0.25 seconds on, 0.25 seconds off. Repeat.	IMO Code 3.a (High)
2	1KHz 1 second on 1 second off 7 times then on for 7 seconds off for 1 second. Repeat.	IMO Code 1a General Emergency Alarm	ON	OFF	OFF	OFF	OFF	800Hz continuous	IMO Code 2 (High)	500Hz 0.25 seconds on, 0.25 seconds off. Repeat.	IMO Code 3.a (Low)
3	1KHz 1 second on 1 second off 7 times then on for 7 seconds off for 1 second. Repeat.	IMO Code 1a General Emergency Alarm	OFF	ON	OFF	OFF	OFF	800Hz continuous	IMO Code 2 (High)	500Hz rising to 800Hz over 0.25 seconds, 0.25 second gap. Repeat.	IMO Code 3.b
4	1KHz 1 second on 1 second off 7 times then on for 7 seconds off for 1 second. Repeat.	IMO Code 1a General Emergency Alarm	ON	ON	OFF	OFF	OFF	800Hz continuous	IMO Code 2 (High)	1200Hz 0.25 seconds, 800Hz 0.25 seconds. Repeat.	IMO Code 3.c (High)
5	1KHz 1 second on 1 second off 7 times then on for 7 seconds off for 1 second. Repeat.	IMO Code 1a General Emergency Alarm	OFF	OFF	ON	OFF	OFF	800Hz continuous	IMO Code 2 (High)	800Hz 0.25 seconds, 500Hz 0.25 seconds. Repeat.	IMO Code 3.c (Low)
6	1KHz 1 second on 1 second off 7 times then on for 7 seconds off for 1 second. Repeat.	IMO Code 1a General Emergency Alarm	ON	OFF	ON	OFF	OFF	800Hz continuous	IMO Code 2 (High)	500Hz to 1200Hz sw eeping 2 seconds peak to peak 0.5Hz	IMO Code 3.d
7	1KHz 1 second on 1 second off 7 times then on for 7 seconds off for 1 second. Repeat.	IMO Code 1a General Emergency Alarm	OFF	ON	ON	OFF	OFF	500Hz continuous	IMO Code 2 (Low)	800Hz 0.25 seconds on, 0.25 seconds off. Repeat.	IMO Code 3.a (High)
8	1KHz 1 second on 1 second off 7 times then on for 7 seconds off for 1 second. Repeat.	IMO Code 1a General Emergency Alarm	ON	ON	ON	OFF	OFF	500Hz continuous	IMO Code 2 (Low)	500Hz 0.25 seconds on, 0.25 seconds off. Repeat.	IMO Code 3.a (Low)
9	1KHz 1 second on 1 second off 7 times then on for 7 seconds off for 1 second. Repeat.	IMO Code 1a General Emergency Alarm	OFF	OFF	OFF	ON	OFF	500Hz continuous	IMO Code 2 (Low)	500Hz rising to 800Hz over 0.25 seconds, 0.25 second gap. Repeat.	IMO Code 3.b
10	1KHz 1 second on 1 second off 7 times then on for 7 seconds off for 1 second. Repeat.	IMO Code 1a General Emergency Alarm	ON	OFF	OFF	ON	OFF	500Hz continuous	IMO Code 2 (Low)	1200Hz 0.25 seconds, 800Hz 0.25 seconds. Repeat.	IMO Code 3.c (High)
11	1KHz 1 second on 1 second off 7 times then on for 7 seconds off for 1 second. Repeat.	IMO Code 1a General Emergency Alarm	OFF	ON	OFF	ON	OFF	500Hz continuous	IMO Code 2 (Low)	800Hz 0.25 seconds, 500Hz 0.25 seconds. Repeat.	IMO Code 3.c (Low)
12	1KHz 1 second on 1 second off 7 times then on for 7 seconds off for 1 second. Repeat.	IMO Code 1a General Emergency Alarm	ON	ON	OFF	ON	OFF	500Hz continuous	IMO Code 2 (Low)	500Hz to 1200Hz sw eeping 2 seconds peak to peak 0.5Hz	IMO Code 3.d
13	420 Hz continuous [0.5 sec ON, 0.5 sec OFF] [0.5 sec ON, 0.5 sec OFF] [0.5 sec ON, 1.5 sec OFF] [repeat].	ISO 8201 temporal pattern	OFF	OFF	ON	ON	OFF	800/1000Hz @ 0.25 sec alternating	BS5839 Alarm tone	1000Hz continuous	PFEER Toxic Gas All Clear
14	1KHz continuous [0.5 sec ON, 0.5 sec OFF] [0.5 sec ON, 0.5 sec OFF] [0.5 sec ON, 1.5 sec OFF] [repeat].	ISO 8201 temporal pattern	ON	OFF	ON	ON	OFF	800/1000Hz @ 0.25 sec alternating	BS5839 Alarm tone	1000Hz continuous	PFEER Toxic Gas All Clear
15	2900Hz continuous [0.5 sec ON, 0.5 sec OFF] [0.5 sec ON, 0.5 sec OFF] [0.5 sec ON, 1.5 sec OFF] [repeat].	ISO 8201 temporal pattern	OFF	ON	ON	ON	OFF	800/1000Hz @ 0.25 sec alternating	BS5839 Alarm tone	1000Hz continuous	PFEER Toxic Gas All Clear
16	800Hz/1KHz alternating [0.5 sec ON, 0.5 sec OFF] [0.5 sec ON, 0.5 sec OFF] [0.5 sec ON, 1.5 sec OFF] [repeat].	ISO 8201 temporal pattern	ON	ON	ON	ON	OFF	800/1000Hz @ 0.25 sec alternating	BS5839 Alarm tone	1000Hz continuous	PFEER Toxic Gas All Clear
17	950Hz continuous [0.5 sec ON, 0.5 sec OFF] [0.5 sec ON, 0.5 sec OFF] [0.5 sec ON, 1.5 sec OFF] [repeat].	ISO 8201 temporal pattern	OFF	OFF	OFF	OFF	ON	800/1000Hz @ 0.25 sec alternating	BS5839 Alarm tone	1000Hz continuous	PFEER Toxic Gas All Clear
18	440Hz Continuous		ON	OFF	OFF	OFF	ON	800/1000Hz @ 0.25 sec alternating	BS5839 Alarm tone	1000Hz continuous	PFEER Toxic Gas All Clear
19	544Hz @ 0.875 sec. Intermittent		OFF	ON	OFF	OFF	ON	800/1000Hz @ 0.25 sec alternating	BS5839 Alarm tone	1000Hz continuous	PFEER Toxic Gas All Clear
20	422Hz rising to 775 Hz over 850 ms repeated three times followed by 1 second delay. Repeat.	NFPA w hoop tone	ON	ON	OFF	OFF	ON	800/1000Hz @ 0.25 sec alternating	BS5839 Alarm tone	1000Hz continuous	PFEER Toxic Gas All Clear
21	2400/2900Hz @ 2Hz Alternating		OFF	OFF	ON	OFF	ON	800/1000Hz @ 0.25 sec alternating	BS5839 Alarm tone	1000Hz continuous	PFEER Toxic Gas All Clear
22	500/1200Hz @ 0.3Hz 0.5 sec slow w hoop	Netherlands - NEN 2575:2000	ON	OFF	ON	OFF	ON	800/1000Hz @ 0.25 sec alternating	BS5839 Alarm tone	1000Hz continuous	PFEER Toxic Gas All Clear
23	500-1500Hz sw eeping @ 2 sec on, 1 sec off.	Australian Alert tone AS4428 (ISO7731)	OFF	ON	ON	OFF	ON	1500-500Hz sw eeping [0.5 sec ON, 0.5 sec OFF] [0.5 sec ON, 0.5 sec OFF] [0.5 sec ON, 1.5 sec OFF] [repeat].	Australian Evacuation tone AS4428 (ISO8201)	1000Hz continuous	PFEER Toxic Gas All Clear
24	1500-500Hz sw eeping [0.5 sec ON, 0.5 sec OFF] [0.5 sec ON, 0.5 sec OFF] [0.5 sec ON, 1.5 sec OFF] [repeat].	Australian Evacuation tone AS4428 (ISO8201)	ON	ON	ON	OFF	ON	500-1500Hz sw eeping @ 2 sec on, 1 sec off.	Australian Alert tone AS4428 (ISO7731)	1000Hz continuous	PFEER Toxic Gas All Clear
25	1000 & 2000Hz @ 0.5 sec alternating	Singapore	OFF	OFF	OFF	ON	ON	1200/500Hz @ 1Hz saw tooth	DIN / PFEER P.T.A.P.	1000Hz continuous	PFEER Toxic Gas All Clear
26	660Hz 150mS on, 150mS off Intermittent	Sweden	ON	OFF	OFF	ON	ON	660Hz 1.8sec on, 1.8sec off Intermittent	Sweden	1000Hz continuous	PFEER Toxic Gas All Clear
27	800/1000Hz @ 0.25 sec alternating	BS5839 Alarm tone	OFF	ON	OFF	ON	ON	544Hz (100mS)/440Hz (400mS) alternating	AFNOR NF S 32-001	1000Hz continuous	PFEER Toxic Gas All Clear
28	1000Hz continuous	PFEER Toxic Gas All Clear	ON	ON	OFF	ON	ON	1KHz 1s on, 1s off intermittent	PFEER General Alarm	1200/500Hz @ 1Hz saw tooth	DIN / PFEER P.T.A.P.
29	1KHz 1s on, 1s off intermittent	PFEER General Alarm	OFF	OFF	ON	ON	ON	1000Hz continuous	PFEER Toxic Gas All Clear	1200/500Hz @ 1Hz saw tooth	DIN / PFEER P.T.A.P.
30	1200/500Hz @ 1Hz saw tooth	DIN / PFEER P.T.A.P.	ON	OFF	ON	ON	ON	1000Hz continuous	PFEER Toxic Gas All Clear	800/1000Hz @ 0.25 sec alternating	BS5839 Alarm tone
31	544Hz (100mS)/440Hz (400mS) alternating	AFNOR NF S 32-001	OFF	ON	ON	ON	ON	800/1000Hz @ 0.25 sec alternating	BS5839 Alarm tone	554Hz Continuous	
32	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s	AFNOR NF C 48-265	ON	ON	ON	ON	ON	800/1000Hz @ 0.25 sec alternating	BS5839 Alarm tone	554Hz Continuous	