

Technical Bulletin

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What is the dB(A) performance of the AlertAlarm range?

The E2S brand, AlertAlarm, is a range of electronic audible signals. Each product is available in a number of voltage versions. All facilitate common 32 or 45 different tones and 3 or 4 stages (or channels) of alarm.

Applicable product ranges

[AlertAlarm](#)

Product	Maximum Output dB(A) @ 10' *	Maximum Output dB(A) @ 1m *	Effective Range: Alarm tone sound output at 70dB(A)**	Audible Range: Alarm tone sound output at 60dB(A)**
 A100 alarm horn	95 (91)	104 (100)	103' / 32m	328' / 100m
 A105N & D105 alarm horns	101 (96)	112 (105)	185' / 56m	583' / 178m
 A112N & D112 alarm horns	110 (103)	119 (112)	413' / 125m	1,306' / 398m

Product	Maximum Output dB(A) @ 10' *	Maximum Output dB(A) @ 1m *	Effective Range: Alarm tone sound output at 70dB(A)**	Audible Range: Alarm tone sound output at 60dB(A)**
 A121 alarm horn	117 (112)	126 (121)	1,165' / 355m	3,680' / 1,122m
 A131 wide area siren	(122)	(131)	Local / indoor signalling - 3,675' / 1,120m Wide area / outdoor signalling - 900' / 275m	
 A141 wide area siren	(132)	(141)	Local / indoor Signalling - 11,640' / 3,500m Wide area / outdoor signalling - 1,800' / 550m	

* nominal output in (brackets)

**at nominal frequency of 1000 Hz in free field conditions:

Effective range where ambient < 65 dB(A).

Effective distance may be reduced by at least 82% for ambient background noise > 80 dB(A).

Effective distance may be reduced by at least 90% for ambient background noise > 85 dB(A).

The AlertAlarm alarm horn sounders can be combined with visual signals, these can be found in the [AlertAlight](#) and [SpectrAlarm](#) ranges.

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