

Autronica

Loop Sounder Performance

Reference values

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This document describes the Reference Values for the Autronica Loop Powered Sounder Units.

All sound measurements are made at 3 meters. The A-weighted sound level at 1m is derived by adding a conversion factor of 9,45 dB to the sound value obtained at 3m as specified in the EN 54 p3 standard (Annex A).

Page 3: A-weighted sound level at 1m tested in Tone A general Alarm.

BBR-130 / BBQ-130 / BBR-131 / BBQ-131

Horizontal Plane

Vertical Plane

Tone A General Alarm

Orientation	25V	17V
15	78	79
45	75	72
75	80	79
105	79	80
135	72	76
165	77	78

Orientation	25V	17V
15	75	74
45	75	75
75	81	81
105	78	78
135	76	77
165	78	78

Tone B Evacuate

Orientation	25V	17V
15	78	77
45	75	72
75	80	78
105	79	80
135	71	75
165	78	78

Orientation	25V	17V
15	75	74
45	75	76
75	81	81
105	78	78
135	77	76
165	78	77

Tone C Alert

Orientation	25V	17V
15	78	78
45	74	75
75	81	81
105	79	78
135	72	72
165	78	77

Orientation	25V	17V
15	75	74
45	75	76
75	81	81
105	78	78
135	76	76
165	78	78

Tone D Bell Test

Orientation	25V	17V
15	78	77
45	75	74
75	81	80
105	80	78
135	72	70
165	77	77

Orientation	25V	17V
15	74	74
45	75	75
75	81	81
105	78	77
135	76	76
165	78	78

Tone E Slow Whoop

Orientation	25V	17V
15	78	78
45	74	74
75	79	80
105	78	77
135	74	74
165	77	77

Orientation	25V	17V
15	78	77
45	77	78
75	82	82
105	76	76
135	77	77
165	78	77

BBR-230 / BBR-230/IP / BBQ-230 / BBQ-230/IP

Horizontal Plane

Vertical Plane

Tone A General Alarm

Orientation	25V	17V
15	72	72
45	83	83
75	86	86
105	85	85
135	82	82
165	75	74

Orientation	25V	17V
15	68	71
45	83	83
75	86	86
105	85	85
135	82	82
165	73	72

Tone B Evacuate

Orientation	25V	17V
15	72	72
45	83	83
75	87	87
105	85	85
135	81	82
165	75	75

Orientation	25V	17V
15	68	68
45	83	83
75	86	86
105	85	85
135	82	82
165	73	74

Tone C Alert

Orientation	25V	17V
15	71	72
45	83	83
75	86	86
105	85	85
135	82	81
165	75	75

Orientation	25V	17V
15	73	69
45	83	83
75	86	86
105	85	85
135	83	82
165	73	73

Tone D Bell Test

Orientation	25V	17V
15	71	71
45	83	83
75	86	87
105	85	88
135	81	81
165	75	75

Orientation	25V	17V
15	68	73
45	83	83
75	86	86
105	85	85
135	82	81
165	73	72

Tone E Slow Whoop

Orientation	25V	17V
15	72	73
45	84	84
75	88	88
105	87	86
135	83	83
165	76	75

Orientation	25V	17V
15	71	72
45	84	84
75	88	87
105	87	87
135	82	82
165	74	74

BBQ-230 / BBQ-230/IP

A-weighted sound level at 1m tested in Tone A general Alarm.

Position	Horizontal Plane dB(A) @ 1M			Vertical Plane dB(A) @ 1M		
	Vmin	Vmax	Diff	Vmin	Vmax	Diff
15	85.24	85.24	0	84.84	84.94	0.1
45	90.64	90.54	-0.1	89.34	89.74	0.4
75	95.14	95.44	0.3	94.64	95.14	0.5
105	95.64	96.14	0.5	94.54	95.14	0.6
135	91.14	91.64	0.5	89.54	90.14	0.6
165	83.34	83.84	0.5	81.74	82.54	0.8
Max dB(A) Vmin	Max dB(A) Vmax	Max Difference				
95.64	96.14	0.8				
Min dB(A) Vmin	Min dB(A) Vmax					
81.74	82.54					