

Fire detection and evacuation solutions that save lives.

Discovery Base Sounder

Features

- Simple installation using a standard base
- Adjustable tone and volume
- 15 tone pairs and 7 volume settings
- Built-in isolator (when used with XPERT 8 Base)
- Unique acoustic self test
- Set-up and testing of device at point of installation

Description

The Discovery Base Sounder can either be used with an addressable detector or as a stand-alone device with a base cap (sold separately).

The Discovery Base Sounder includes features such as individual control, status reporting and selectable tone and volume settings, all configured through the fire control panel.

Base compatibility

The Discovery Base Sounder can be used with the Standard Base or Soteria Xpert 8 Base (sold separately). To make use of the Short Circuit Isolator (SCI), the Base Sounder must be installed on the Soteria Xpert 8 Base.

Features

The right tone for the installation

The Discovery Base Sounder offers a choice of 15 evacuation tones, all configured through the fire control panel. A tone is selected during commissioning in order to suit local regulations or customs.

Whichever evacuation tone is selected there is a secondary tone which may be used for alerting or warning of a possible evacuation.

The right level of sound

The sounder is set during commissioning to one of seven levels of sound, the highest level being nominally 95 dB(A) at 1m using Tone 1.

Location-specific volume setting

When configuring the Discovery Base Sounder, the adjustment of the volume can be done through the fire control panel.

Addressing

XP95 / Discovery System

Detector Fitted	AV Base Address	Detector Address
XP95/Discovery/Soteria	1 to 126	1 to 126



Specifications

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Supply voltage	17 to 35V														
Digital communication	Discovery														
Quiescent current	0.7 mA														
Power-up surge current	0.7 mA														
Alarm current, sounder on	6.85 mA														
Alarm current at each volume level	<table> <tr><td>Volume 7</td><td>6.85 mA</td></tr> <tr><td>Volume 6</td><td>4.3 mA</td></tr> <tr><td>Volume 5</td><td>3.6 mA</td></tr> <tr><td>Volume 4</td><td>3 mA</td></tr> <tr><td>Volume 3</td><td>2.5 mA</td></tr> <tr><td>Volume 2*</td><td>2.1 mA</td></tr> <tr><td>Volume 1*</td><td>1.6 mA</td></tr> </table>	Volume 7	6.85 mA	Volume 6	4.3 mA	Volume 5	3.6 mA	Volume 4	3 mA	Volume 3	2.5 mA	Volume 2*	2.1 mA	Volume 1*	1.6 mA
Volume 7	6.85 mA														
Volume 6	4.3 mA														
Volume 5	3.6 mA														
Volume 4	3 mA														
Volume 3	2.5 mA														
Volume 2*	2.1 mA														
Volume 1*	1.6 mA														
Max sound output at 90°	95 dB(A)														
Operating Temperature	-20°C to +70°C														
Humidity (no condensation or icing)	0 to 95% RH														
IP rating	IP21C rating approved as per EN54-3														
Manufacturer's Declared	IP34* (detector or cap fitted)														
Approvals	EN 54-3, EN 54-17: 2005														
Vibration, impact and shock	AS ISO 7240.3:2021 AS ISO 7240.17:2021														
Dimensions	110mm Dia x 46mm H														
Weight	198 grams														
Materials Housing Terminals	White flame-retardant polycarbonate Nickel plated stainless steel														

Note:

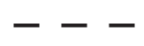
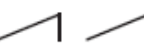
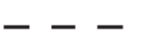
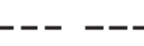
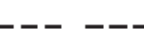
* Not EN 54-3 approved volume level

Fire detection and evacuation solutions that save lives.

Item Numbers

	Australia/New Zealand	EMEA
Discovery Base Sounder cw Isolator	4107-4005	58002-300AMP
Discovery Base Sounder (Black) cw Isolator	4107-4006	58006-300AMP
Standard Base Xpert 7	201-0004	45681-210AMP
Soteria Base Xpert 8	4106-2100	SA5000-200AMP
White Base Sounder Cap	201-0114	45681-292
Red Base Sounder Cap	201-0119	45681-293
Black Base Sounder Cap	201-0121	45681-296

Discovery Base Sounder Tone Table

Tone Pair	Temporal Pattern Profile	Primary Tone	Frequency	Temporal Pattern Profile	Secondary Tone	Frequency
1		Apollo Evacuation Tone*	550Hz for 0.5s, 825Hz for 0.5s		Apollo Alert Tone*	1s off, 825Hz for 1s
2		Alternating – (Hochiki & Fullerton)*	900Hz for 0.25s, 600Hz for 0.25s		Continuous (Hochiki & Fullerton)*	925Hz
3		Medium Sweep*	700Hz to 900Hz at 1Hz		Continuous*	970Hz
4		Fast Sweep	2500Hz -2850Hz at 9Hz		Continuous	2850Hz
5		Dutch Slow Whoop (sweep)*	600Hz - 1300Hz for 3.5s, 0.5s off		Continuous*	825Hz
6		DIN Tone (sweep)*	1200Hz - 500Hz for 1s		Continuous*	825Hz
7		Swedish Fire Tone*	660Hz, 150ms on, 150ms off		Swedish all clear signal - Continuous*	660Hz
8		Australia (fast rise sweep)	3 x (500Hz - 1200Hz for 0.5s, 0.5s off)		Australia Alert Tone	420Hz, 0.625s on, 0.625s off
9		New Zealand (slow rise sweep)	500Hz - 1200Hz for 3.75s, 0.25s off		New Zealand Alert Tone	420Hz, 0.625s on, 0.625s off
10		US Temporal LF (ISO 8201)	3 x (970Hz, 0.5s on, 0.5s off), 1s off		Continuous*	970Hz
11		US Temporal HF (ISO 8201)	3 x (2850Hz, 0.5s on, 0.5s off), 1s off		Continuous	2850Hz
12		Simulated Bell – Continuous	827Hz for 16ms followed by 990Hz for 16ms		Simulated Bell - Intermittent	827Hz 1s off, 1s on
13		Emergency Warning Siren	600-1200Hz sweep for 4s, 1200Hz for 2s, 1200Hz – 600Hz sweep for 4s		Emergency Warning Siren All Clear	1200Hz continuous
14		French Evacuation Tone	554Hz for 0.1s, 440Hz for 0.4s		Continuous*	970Hz
15		Australia Evacuation Tone (AS7240-3)	3 x (520Hz 0.5s on, 0.5s off), 1s off		Australia Alert Tone (AS7240-3)	520Hz 0.5s on, 3.5s off

*EN54-3 Compliant

EMC Directive 2014/30/EU

The Discovery Base Sounder complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this data sheet.

Conformity of the Discovery Base Sounder with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

Construction Products Regulation (EU) No 305/2011

The Discovery Base Sounder complies with the essential requirements of the Construction Products Regulation (EU) 305/2011.

Fire detection and evacuation solutions that save lives.

Tone	Mounted	Vin	15° (dB A)	45° (dB A)	75° (dB A)	105° (dB A)	135° (dB A)	165° (dB A)
1	Horizontal	17.0 V	78.88	76.95	84.58	84.30	78.78	80.15
		28.0 V	79.11	78.10	85.15	84.45	79.03	80.62
	Vertical	17.0 V	79.02	79.75	84.05	83.26	78.12	80.63
		28.0 V	79.47	80.27	84.55	83.82	78.50	81.07
2	Horizontal	17.0 V	82.91	78.15	86.36	86.20	78.96	82.40
		28.0 V	83.02	78.72	86.79	86.62	79.15	82.76
	Vertical	17.0 V	83.40	79.97	85.39	85.98	79.61	82.88
		28.0 V	83.78	80.50	85.73	86.25	80.31	83.22
3	Horizontal	17.0 V	77.14	76.62	82.67	83.07	78.03	77.74
		28.0 V	77.90	77.55	83.30	83.40	78.62	78.21
	Vertical	17.0 V	78.24	78.20	84.21	81.21	78.14	78.11
		28.0 V	78.72	78.68	84.70	82.28	78.66	78.58
4	Horizontal	17.0 V	80.78	81.11	84.95	85.36	81.39	80.85
		28.0 V	80.81	81.37	84.78	85.42	81.62	80.83
	Vertical	17.0 V	81.18	81.78	84.85	84.82	81.20	81.55
		28.0 V	81.22	81.80	84.92	84.61	81.21	81.60
8	Horizontal	17.0 V	77.05	74.93	85.30	85.68	74.80	75.12
		28.0 V	77.51	75.34	85.67	86.16	74.81	75.52
	Vertical	17.0 V	75.34	78.19	86.11	82.99	77.45	73.33
		28.0 V	77.49	76.81	85.39	85.86	76.46	75.41
9	Horizontal	17.0 V	77.78	76.65	84.79	84.80	76.78	76.95
		28.0 V	77.97	77.65	85.49	85.36	76.85	77.45
	Vertical	17.0 V	78.01	78.78	84.97	84.58	77.64	77.63
		28.0 V	78.42	79.34	85.23	85.13	77.68	78.05
15	Horizontal	17.0 V	79.70	77.90	83.38	82.92	78.89	80.66
		28.0 V	80.11	78.43	83.80	83.12	79.45	81.06
	Vertical	17.0 V	81.60	78.75	83.89	82.37	79.35	80.87
		28.0 V	82.08	79.40	84.45	82.75	80.07	81.30

Measured Data

The sound pressure level of the sounders was measured in free field conditions using the test method described in Annex A of the product standard with the supply parameters at maximum and minimum of the specified ranges and the tone at maximum volume.