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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** | 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 Vibration, impact and shock** | EN 54-3, EN 54-17: 2005<br>AS ISO 7240.3:2021<br>AS ISO 7240.17:2021 | |
| **Dimensions** | 110mm Dia x 46mm H | |
| **Weight** | 198 grams | |
| **Materials Housing Terminals** | White flame-retardant polycarbonate<br>Nickel plated stainless steel | |

Note:
* Not EN 54-3 approved volume level

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## 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 & Fulleon)* | 900Hz for 0.25s, 600Hz for 0.25s | | Continuous (Hochiki & Fulleon)* | 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.

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| 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.