Discovery

Base Sounder

Product Overview

Product	**Discovery Base Sounder**
Part No.	**58002-300APO**
Product	**Discovery Base Sounder - Black**
Part No.	**58006-300APO**
Digital Communication	**Discovery and CoreProtocol® (compatible)**

Product Information

The Discovery Base Sounder can either be used with an Apollo addressable detector or as a stand-alone device with a base cap, Part No. 45681-292 - white, or Part No. 45681-293 - red, or Part No. 45681-296 - black (sold separately).

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

- Simple installation using an XPERT 8 base
- Adjustable tone and volume (15 tone pairs, 7 volume settings)
- Software defined group addressing with up to 16 group addresses
- Built-in isolator (when used with XPERT 8 Base)
- Unique acoustic self test
- Set-up and testing of device at point of installation

**Note: Features are panel dependent. Please consult your panel manufacturer to confirm feature availability.

Manufacturer's Specification

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 V - 35 V dc
Digital communication		Discovery and CoreProtocol (compatible)
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
Maximum sound output at 90º		95 dB(A)
Operating Temperature Range		-20ºC to +70ºC
Humidity		0% to 95% RH (no condensation or icing)
IP Rating		IP21C rating approved as per EN54-3.
Manufacturer's Declared Rating		IP34*
Vibration, impact and shock		EN 54-3, EN 54-17: 2005
Dimensions		110 mm diameter x 46 mm deep
Weight		198 g
Materials	Housing	White flame-retardant polycarbonate
	Terminals	Nickel plated stainless steel

Notes:
1. *Not EN 54-3 approved volume level
2. *Manufacturer's declared IP34 rating - below ceiling level - applies only when a Detector or Cap is fitted. The Grub screw must be engaged to ensure the IP ratings are achieved.
3. For Isolator data refer to Short-Circuit Isolation data sheet PP2090 available from www.apollo-fire.co.uk

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Base compatibility

The Discovery Base Sounder can be used with the XPERT 8 Base - Part No. SA5000-20X (sold separately). To make use of the Short Circuit Isolator (SCI), the Base Sounder must be installed on the SA5000-20X XPERT 8 Base.

Features

The right tone for the installation

The Discovery Base Sounder offers a choice of 15 evacuation tones, including the standard Apollo evacuation tone. 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.

Location-specific volume setting

When configuring the Discovery Base Sounder, the adjustment of the volume can be done at the device location.

The commissioning engineer simply sets the control panel to 'set-up' and then walks from one device to the next to set the required volume, using a magnetic wand. When all devices have been set, the engineer simply saves the settings on the control panel to register all the individual volume settings.

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.

A copy of the Declaration of Conformity is available from the Apollo website: www.apollo-fire.co.uk

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.

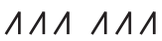
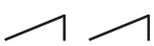
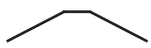
Construction Products Regulation (EU) No 305/2011

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

A copy of the Declaration of Performance is available from the Apollo website: www.apollo-fire.co.uk.

Addressing		
XP95 / Discovery System:		
Detector Fitted	**AV Base Address**	**Detector Address**
XP95/Discovery/Soteria	XPERT Universal Address Card (1 to 126)	XPERT Universal Address Card (1 to 126)
None	XPERT Universal Address Card (1 to 126)	N/A
CoreProtocol System (Hard Addressing)		
Detector Fitted	**AV Base Address**	**Detector Address**
Soteria	XPERT Universal Address Card (1 to 126)	XPERT Universal Address Card (1 to 254)
XP95/Discovery	XPERT Universal Address Card (1 to 126)	XPERT Universal Address Card (1 to 126)
None	XPERT Universal Address Card (1 to 126)	N/A

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**

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