Intelligent
Open-Area Sounder

Product Overview

Product	**Sounder - red body**
Part No.	**SA5500-300**
Product	**Sounder - white body**
Part No.	**SA5501-300**
Digital Communication	**CoreProtocol®, Discovery and XP95**

Product Information

The Intelligent Open-Area Sounder is designed for use in open-areas and can be connected to any CoreProtocol®, Discovery or XP95 system.

The Intelligent Open-Area Sounder includes features such as group and individual control, status reporting and selectable tone and volume settings, all configured through the fire control panel.*

- Adjustable tone and volume (15 tone pairs, seven volume levels)
- Software defined group addressing with up to 16 group addresses
- Alarm switching by individual device, by group address or of all individual devices on the loop
- Built-in controllable isolator
- Set-up and testing of devices at point of installation
- Unique acoustic self test

***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		*CoreProtocol, Discovery and XP95*
Quiescent current		*890 µA*
Alarm current, LED on		*5.95 mA (max volume at 24 V)*
Alarm current at each volume level	*Volume 7*	*5.95 mA*
	Volume 6	*5.20 mA*
	Volume 5	*4.50 mA*
	Volume 4	*3.75 mA*
	Volume 3	*3.10 mA*
	Volume 2	*2.35 mA*
	Volume 1	*1.65 mA**
Maximum sound output at 90° at 1m		*101 dB(A)*
Product operating temperature		*-10°C to +55°C*
Storage temperature		*-10°C to +55°C*
Humidity		*0% to 95% RH (no condensation or icing)*
IP Rating		*IP 33*
Dimensions		*113 mm diameter x 65 mm deep*
Weight		*178 ms*
Materials	***Housing***	*White or red flame-retardant polycarbonate*
	Terminals	*Tin plated stainless steel*

**Not EN54-3 approved volume level*

***Note:** For Isolator data refer to Short-Circuit Isolation data sheet PP2090 available from www.apollo-fire.co.uk*

Base compatibility

The Intelligent Open-Area Sounder is compatible with the mounting bases and accessories (sold separately) that follow:

Part No. 45681-210APO	Intelligent Mounting Base
Part No. SA5000-200APO	XPERT 8 Intelligent Mounting Base - white
Part No. SA5000-202APO	XPERT 8 Intelligent Mounting Base - red

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The right tone for the installation

The Intelligent Open-Area 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 101 db(A) at 1m.

At less than 60 db(A) the lowest level falls outside the scope of the EN54 standard. It has been included to provide a very local warning for the use of personnel in particular environments, such as nurse stations in hospitals.

Addressing

The Open-Area Alarm Devices respond to their own individual address which is set via the appropriate XPERT address card. Group address and tones on CoreProtocol systems are set using the fire control panel.

EMC Directive 2014/30/EU

The Intelligent Open-Area 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 Intelligent Open-Area Sounder with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

Construction Products Regulation (EU) 305/2011

The Intelligent Open-Area 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.

Location-specific volume setting

Detectors and sounder indicators are installed in many different types of environment.

When configuring the Intelligent Open-Area Sounder devices the adjustment of the volume can be done *at the point of intstallation* .

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 presses a button on the control panel which then registers all the individual volume settings.

Intelligent Open-Area Sounder Tone Table								
Byte value	**Primary tone**	**Frequency**	**Tone No.**	**EN 54-3 Approved**	**Secondary tone**	**Frequency**	**Tone No.**	**EN 54-3 Approved**
1	Apollo evacuate tone	522 Hz for 0.5 s, 707 Hz for 0.5 s	T21	Y	Apollo alert tone	1 s off, 707 Hz for 1 s	T22	Y
2	Alternating (Hochiki and Fulleon)	925 Hz for 0.25 s, 626 Hz for 0.25 s	T12	Y	Continuous (Hochiki and Fulleon)	925 Hz	T11	Y
3	Medium sweep	800 - 970 Hz at 1 Hz	T14	Y	Continuous	970 Hz	T13	Y
4	Fast sweep	2500 Hz - 2850 Hz at 9 Hz	T16	N	Continuous	2850 Hz	T15	N
5	Dutch slow whoop (sweep)	500 Hz - 1200 Hz for 3.5 s, 0.5 s off	T3	Y	Continuous	825 Hz	T2	Y
6	DIN tone (sweep)	1200 - 500 Hz for 1 s	T4	Y	Continuous	825 Hz	T2	Y
7	Swedish fire tone	660 Hz, 150 ms 0n, 150 ms off	T18	Y	Swedish all clear signal - continuous	660 Hz	T17	Y
8	Australian (fast rise sweep)	3 x (500 Hz - 1200 Hz for 0.5 s off), 1s off	T6	N	Australian alert tone	420 Hz, 0.625 s, 0.625 s off	T5	N
9	New Zealand (slow rise sweep)	500 - 1200 Hz for 3.75 s, 0.25 s off	T7	N	New Zealand alert tone	420 Hz, 0.625 s, 0.625 s off	T5	N
10	US temporal LF (ISO 8201)	3 x (970 Hz, 0.5 s on, 0.5 s off), 1 s off	T19	N	Continuous	970 Hz	T13	Y
11	US temporal HF (ISO 8201)	3 x (2850 Hz, 0.5 s on, 0.5 s off), 1 s off	T20	N	Continuous	2850 Hz	T15	N
12	Simulated bell - continuous	3000 Hz and 2250 Hz	T8	N	Simulated bell - intermittent	1 s off, 1 s on	T9	N
13	Emergency warning siren	600 - 1200 Hz sweep	T10	N	Emergency warning siren - all clear	1200 Hz continuous	T10	N
14	Evacuation tone	970 Hz continuous	T13	Y	Pulsed at 1 s off, 1 s on	970 Hz pulsed at 1s off, 1s on	T19	N
15	Apollo evacuate tone	522 Hz for 0.5 s, 707 Hz for 0.5 s	T21	Y	Apollo alert tone	1 s off, 707 Hz for 1 s	T22	Y