

Intelligent Open-Area Sounder VID



Product Overview

Product	Sounder Visual Indicator - white flash, red body
Part No.	SA5500-350
Product	Sounder Visual Indicator - white flash, white body
Part No.	SA5501-350
Product	Sounder Visual Indicator - red flash, red body
Part No.	SA5500-351
Product	Sounder Visual Indicator - red flash, white body
Part No.	SA5501-351
Native Protocol	XP95, Discovery and CoreProtocol

Product Information

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

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

*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	XP95, Discovery and CoreProtocol
Quiescent current	890 µA
Alarm current, LED on	8.20 mA
Alarm current at each volume level (inc. VID)	Volume 7 8.20 mA Volume 6 7.50 mA Volume 5 6.80 mA Volume 4 6.00 mA Volume 3 5.3 0 mA Volume 2 4.50 mA Volume 1 3.90 mA*
Alarm current VID only	3.10 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 21C
Dimensions	113 mm diameter x 65 mm deep
Weight	196 g
Materials	Housing White or red flame-retardant polycarbonate Terminals Tin plated stainless steel

*Not EN 54-3 approved volume level

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

- Adjustable tone and volume (15 tone pairs, seven volume levels)
- Software defined group addressing with up to 16 group addresses
- Built-in controllable isolator
- Independent control of sounder and visual indicator
- Set-up and testing of devices at point of installation
- Unique acoustic self-test



Base compatibility

The Intelligent Open-Area Sounder VID 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

The right tone for the installation

The Intelligent Open-Area Sounder VID 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 - as outlined in Healthcare Technical Memorandum, (HTM 05-01 & HTM 05-02).

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.

Sounder, visual indicator or both

The Intelligent Open-Area Sounder VID normally switches both sounder and visual indicator to provide an alert or evacuation signal. In situations where a flash or a sounder is not permitted, it is a simple choice as to whether to switch both sounder and visual indicator together or to switch either as necessary.

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 installation*.

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.

EMC Directive 2014/30/EU

The Intelligent Open-Area Sounder VID 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 VID 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 VID 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.

Intelligent Open-Area Sounder Visual Indicator 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 On, 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), 1 s 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	Continuous	970 Hz	T13	Y	Alert tone	970 Hz pulsed at 1 s off, 1 s 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