

Battery Type

3 x AA, 1.5V Alkaline Duracell Procell (MN1500, LR6)

3 x C, 1.5V Alkaline Duracell Procell (MN1400, LR14)

When replacing batteries, allow the device to power down for a period of two minutes before installing replacements.

Note: When replacement batteries are required, all batteries must be replaced together.



XPander Sounder/Beacon Installation Guide

General

Do not install any XPander equipment until a full site survey has been completed using the XPander site survey tool. A maximum of 5 interfaces are permitted for each site. For sites that require more than 5 interfaces please contact Apollo. All installation engineers must have had certified XPander training.

The XPander sounder and sounder beacon variants are as follows:

Complete Units

Part Number	Description
XPA-CB-14001-APO	XPander Sounder with Mounting Base (Red)
XPA-CB-14002-APO	XPander Sounder with Mounting Base (White)
XPA-CB-14003-APO	XPander Sounder Beacon (Red) with Mounting Base (Red)
XPA-CB-14004-APO	XPander Sounder Beacon (Amber) with Mounting Base (White)
XPA-CB-14005-APO	XPander Sounder Beacon (Clear) with Mounting Base (White)

Spares

Part Number	Description
XPA-SB-10023-APO	XPander Sounder Mounting Base (Red)
XPA-SB-10024-APO	XPander Sounder Mounting Base (White)
XPA-SO-14001-APO	XPander Sounder (Red)
XPA-SO-14002-APO	XPander Sounder (White)
XPA-SN-14003-APO	XPander Sounder Beacon (Red)
XPA-SN-14004-APO	XPander Sounder Beacon (Amber)
XPA-SN-14005-APO	XPander Sounder Beacon (Clear)

The installation must conform to BS5839-1:2008 (or applicable local codes). *All sounder and sounder beacon devices are suitable for indoor use only.*

Installation

The installation procedure for sounders and sounder/beacons is the same. Ensure that all units are sited in accordance with the survey and design details.

TONE	TONE TYPE	TONE DESCRIPTION/ APPLICATION	2 ND STAGE TONE	DIP SWITCH 1_2_3_4_5	SOUND LEVEL (dBA @ 1m)
1	————	970Hz (BS5839-1:2002)	4	0-0-0-0-0	97
2		800Hz/970Hz @ 2Hz (BS5839-1:2002)	1	0-0-0-0-1	97
3		800Hz – 970Hz @ 1Hz (BS5839-1:2002)	1	0-0-0-1-0	98
4	— — — —	970Hz 1s OFF/1s ON (Apollo Fire Systems Alert Tone, BS5839-1:2002)	1	0-0-0-1-1	96
5		970Hz, 0.5s/ 630Hz, 0.5s (Apollo Fire Systems Alert Tone, BS5839-1:2002)	4	0-0-1-0-0	97
6		554Hz, 0.1s/ 440Hz, 0.4s (France - AFNOR NF S 32 001)	1	0-0-1-0-1	96
7		500 - 1200Hz, 3.5s/ 0.5s OFF (Netherlands – NEN 2575:2000)	1	0-0-1-1-0	99
8	— — — —	420Hz 0.625s ON/0.625s OFF (Australia AS2220 Alert tone)	9	0-0-1-1-1	93
9		500 - 1200Hz, 3.75s/ 0.25s OFF (Australia AS2220 Evacuation tone)	8	0-1-0-0-0	99
10		550Hz/440Hz @ 0.5Hz	1	0-1-0-0-1	99
11	--- ---	970Hz, 0.5s ON/0.5s OFF x 3/ 1.5s OFF (ISO 8201 Low tone)	12	0-1-0-1-0	97
12	--- ---	2850Hz, 0.5s ON/0.5s OFF x 3/1.5s OFF (ISO 8201 High tone)	11	0-1-0-1-1	93
13		1200Hz – 500Hz @ 1Hz (DIN 33 404)	1	0-1-1-0-0	97
14	————	400Hz	6	0-1-1-0-1	92
15		550Hz, 0.7s/1000Hz, 0.33s ('SafeSound')	1	0-1-1-1-0	99
16		1500Hz - 2700Hz @ 3Hz (Vandal Alarm)	1	0-1-1-1-1	105
17	————	750Hz	27	1-0-0-0-0	98
18	————	2400Hz	26	1-0-0-0-1	106
19	— — — —	750Hz 0.33s ON/0.51s OFF	1	1-0-0-1-0	98
20	— — — —	750Hz 0.51s ON/0.33s OFF	1	1-0-0-1-1	98
21	— — — —	800Hz 0.2s ON/0.2s OFF	1	1-0-1-0-0	97
22		510Hz, 0.5s/ 610Hz, 0.5s	4	1-0-1-0-1	95
23		550Hz, 0.33s/1000Hz, 0.7s	1	1-0-1-1-0	99
24		250Hz – 1200Hz @ 12Hz	18	1-0-1-1-1	94
25		500Hz – 1200Hz @ 0.33Hz	18	1-1-0-0-0	99
26		2500Hz – 2850Hz @ 7Hz	18	1-1-0-0-1	98
27		600Hz – 900Hz/ 0.9s	1	1-1-0-1-0	97
28		660Hz – 680Hz/ 0.9s	1	1-1-0-1-1	95
29		670Hz – 725Hz/ 0.9s	1	1-1-1-0-0	96
30		920Hz – 750Hz/ 0.9s	1	1-1-1-0-1	98
31		700Hz - 900Hz, 0.3s/0.6s OFF	1	1-1-1-1-0	97
32		900Hz - 750Hz, 0.6s/0.3s OFF	1	1-1-1-1-1	98

1. Remove the wall mounting plate from the sounder by turning it anti-clockwise.
2. Fix the mounting plate (shown in Fig. 1) to the wall using suitable fixings and fasteners. Ensure the fasteners are flush with the mounting plate to avoid the risk of damaging the battery PCB.
3. Attach the sounder base to the module ensuring that locating lugs line up and the tamper switch protrudes through the battery cover and turn clockwise to achieve a positive location.
4. Ensure that the tamper switch operates correctly. The switch should make contact with the wall mount plate.
5. Fit the power jumper shorting link and commission the unit according to the XPander commissioning guide PP2286.

Locking Mechanism

The XPander base module can be locked to the mounting plate by means of a grub screw. Access to which is through the base module cover label opposite the XPERT card.

The sounder can be locked into the base by removing a tab as shown in **Fig.2**. To unlock the sounder, insert a 1.5mm hex driver or similar diameter tool into the small hole opposite the XPERT card and twist the sounder anti-clockwise.

Setup and Test

The address of the unit is set using the XPERT card, see table overleaf. Commission the sounder according to the XPander commissioning guide PP2286.

The tone pattern of the sounder is selected using the 5-way DIL switch on the bottom of the sounder. Refer to table on page 4 for details of the available tones and DIL switch settings. The factory default setting is tone 5.

The audible self test is enabled by positioning both switches of the 2-way DIL switch on the sounder base to the direction of the arrow on the label.

The sound output of the unit can also be reduced by adjusting the potentiometer located on the bottom of the sounder head. Sound pressure level information is published in document PP2203 available on request.

XPERT card insertion and removal

Removal requires access to the inner section of the base. Detach the sounder from its base. Insert a flat-blade screwdriver just inside the rim of the base above the XPERT card and disengage the card retaining clip whilst pulling the XPERT card out.

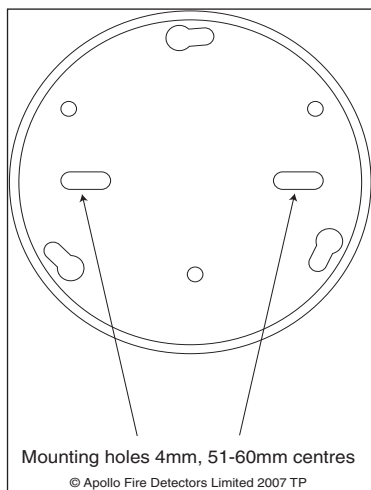
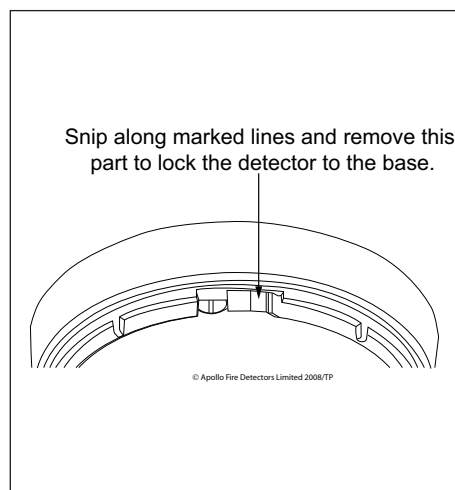


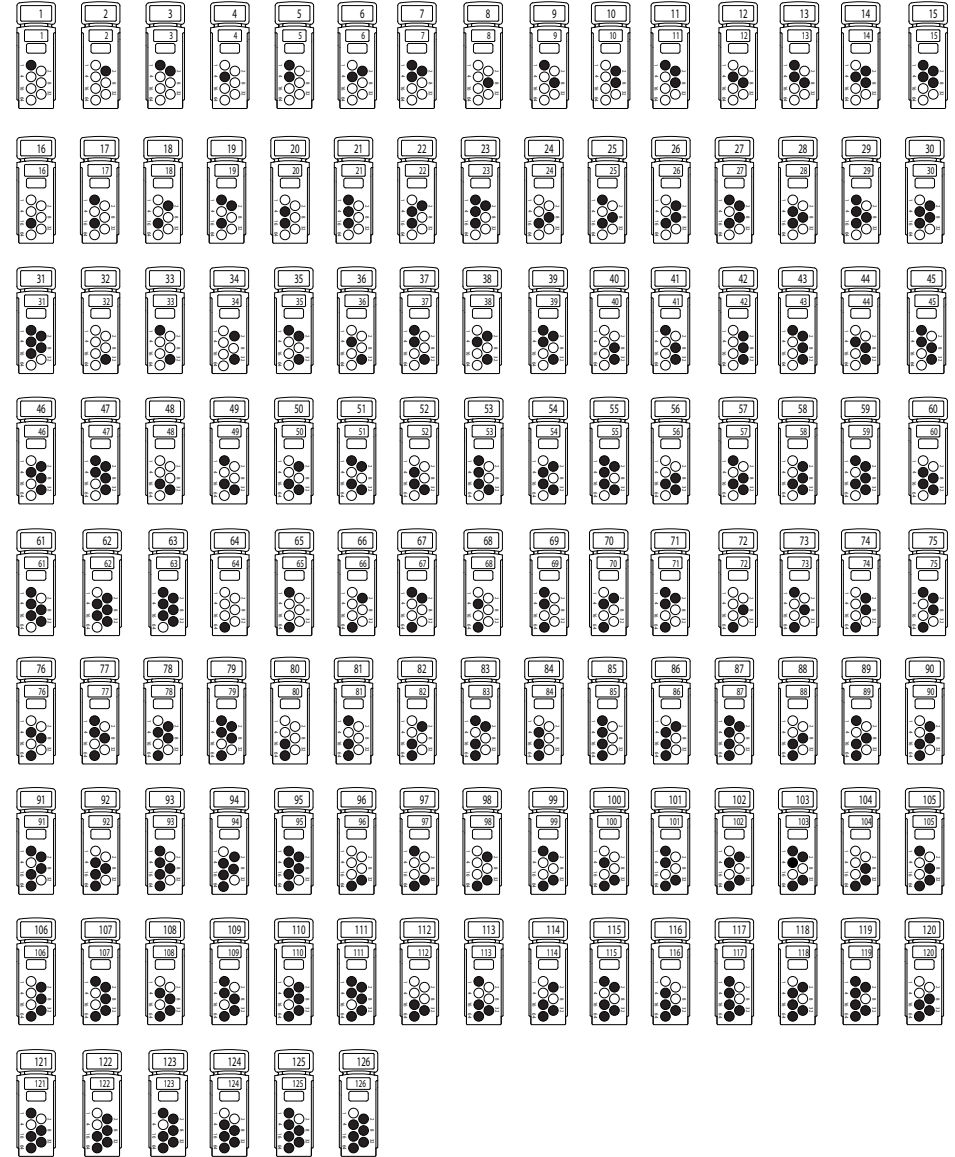
Fig 1 Mounting Details



2 Fig 2. Locking Mechanism

XPERT Card Addressing

The XPander XPERT card is specifically designed for XPander products and has profiled address pips for ease of installation. The use of standard XPERT cards is not recommended. Select the desired address and remove the pips indicated in black. Remove pips with a small screwdriver.



Technical Data

Operating Voltage 2.8-5VDC
 Sound Output See tone table*
 IP Rating 21C
 Operating temperature -10°C to +50°C
 * Note: only tones 1,2,3,4,5,6,7 & 13 EN54-3 compliant