CHQ-BS Base Sounder

Technology Guide

Introduction

The CHQ-BS is a low profile sounder incorporating a base for the analogue sensor, allowing solid state addressing either automatically by the control panel or remotely by using the TCH-B 100 ASX Programmer. The unit can be installed quickly and efficiently producing significant savings in labour costs by only wiring to one unit.
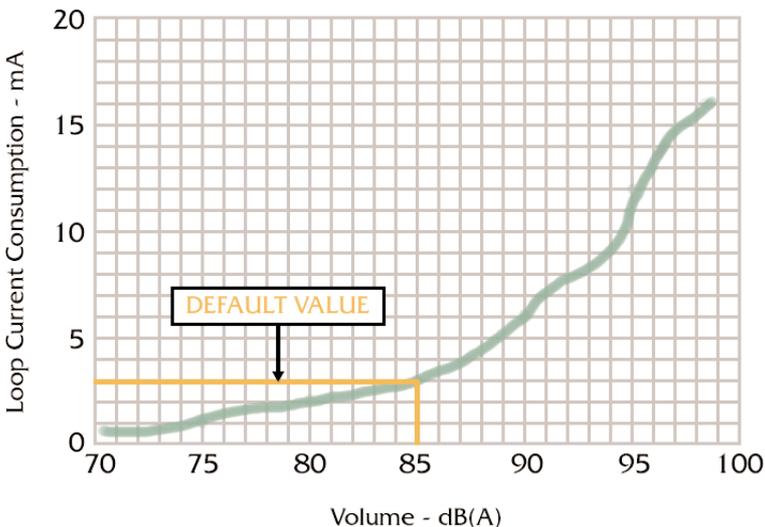
A selection of tones are available and the unit can be driven continuously or pulsed under full synchronisation of the control panel and hence all sounders will pulse at the same time.

Application

With a default Sounder output of 85 dB(A) @ 1 metre, the Hochiki CHQ-BS Base Sounder is ideally suited for installations such as hotel bedrooms, where in order to comply with BS 5839 Parts 1 and 6, a sound level of 75 dB(A) at the bedhead is required. The volume of the CHQ-BS can be changed via the Control Panel from 70dB(A) to 98dB(A) @ 1 metre, lending itself particularly well to Installations such as hotel corridors, where in order to comply with BS 5839 Parts 1 and 6, a sound level of 85 dB(A) at the doorway to each bedroom is required.
This volume adjustment allows sounders to be finely tuned to meet any standard and yet provide a safe level of alarm for the buildings occupants.

Loop Loading

The CHQ-BS can be directly fitted to the detection Loops either in Base Sounder mode (where the CHQ-BS is Auto addressed by the panel to an address between 128 and 254) or Wall Sounder mode (where the CHQ-BS is addressed manually with the TCH-B100 Hand Held Programmer to an address between 1 and 127). The maximum quantity of CHQ-BS Base Sounders (in either mode of operation) will be dependent on the Loop drive capability of compatible Control Panels and the required dB(A) output of the CHQ-BS.

Features

- Powered directly from the loop

- Produces a range of tones at varying volumes 70-98 dB(A), all defined from the Control Panel

- Incorporates an Analogue Base which supports Hochiki's ASX Sensors

- Electronically Addressed

Note: 85 dB(A) is the default setting. Many CHQ-BS compatible control panels will typically support in excess of 100 CHQ-BS's on each Loop.

Individual Control Panel manufacturers should be contacted for precise details on CHQ-BS functionality and loop capabilities of their panels.
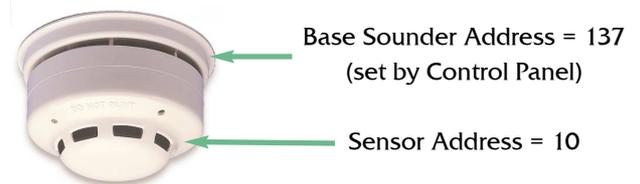
Tones

The table below shows all the available tones produced by Hochiki' s CHQ-BS.   Also shown are the nearest equivalent tones available on the Fulleon Synchrobell's Roshni LP (R) and Symphoni (S) conventional sounders, the Hosiden & Besson Banshee (B) sounder and the Hochiki CHQ-WS (C) Wall Sounder.

CHQ-BS Tone		DESCRIPTION	COMPATIBLE TONES
1		Alternating tone 0.25 sec @ 925Hz, 0.25 sec @ 628Hz	S-29, B-30, C-DEFAULT
2		925Hz continuous	S-14, R-14, B-7
3		628Hz continuous	S-19, R-19, B-27
4	(French)	Alternating tone 1.0 sec @ 544Hz, 4.0 sec @ 440Hz	S-15, R-15, B-21
5	(Swedish)	660Hz, 1.5 sec on, 1.5 sec off	S-16, R-16, B-26
6		925Hz, 1.5 sec on, 6 sec off	
7		Alternating tone 2.5 sec @ 670Hz, 3.75 sec @ 845Hz	

NOTE: Individual tones should always be audibly compared before installation if mixing devices of different types.

Addressing

The default address of the CHQ-BS is 254, and therefore if the CHQ-BS is to be used as a base sounder (sensor on top) then the address will not need to be changed, as the control panel will automatically address the sounder as described*. However, if the sounder is to be used purely as a wall sounder then the CHQ-BS will need to be manually addressed between 1 and 127 as described below.

Base Sounder Address = 137 (set by Control Panel)

Sensor Address = 10

***Note:** *Control Panel compatibility needs to be checked to verify if automatic addressing above 127 is supported.*

Automatic addressing (by Control Panel)

The control panel automatically assigns the address to the base sounder during initialisation. The address is calculated by taking the address of the sensor that is fitted to the base sounder and adding 127, this is then stored within the base sounder. For example, if a sensor is set at address 10 then the base sounder would be automatically set at address 137 (Addresses above 127 may not be visible to the user depending upon the implementation by the Control Panel).

Manual Addressing (by Hand Held Programmer)

The base sounder address can be set using the Hand Held Programmer (**TCH-B100**) between 1 and 254. See the TCH-B100 instructions for further details on the address setting process. If the CHQ-BS is to be used as a wall sounder then the address should be programmed between 1 and 127 before being installed. When used purely as a wall sounder the CHQ-BS should be fitted with an additional cover, the **S/I-BC**, as shown.

Base Sounder Cover (S/I-BC)

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