

# ESPintelligent VADS

## YBO-BSB2

### Analogue Addressable Base Sounder Beacon



#### Features

- ▶ Single Loop Address - addressed via the TCH-B100 Hand Held Programmer
- ▶ Variable Sound Output 50 ~ 98 dB(A) ( $\pm 2$  dB(A)) output at 1 metre
- ▶ Sounder and Beacon can operate independently\*<sup>1</sup>
- ▶ 0.5 or 1Hz flash frequency\*<sup>1</sup>
- ▶ Fits Hochiki Standard or Isolator Base and supports ESP Sensors, Addressable Beacons and Addressable Remote Indicator
- ▶ 51 User-Selectable Tones (all tones EN54-3 compatible)
- ▶ Auto-Shutdown feature prevents noise-pollution\*<sup>1</sup>
- ▶ 'O' Rated Beacon to EN54-23
- ▶ Available with Red or White LEDs
- ▶ Available with, Ivory, White or Black Case
- ▶ SIL Level 2 approved variant available

#### Description

Model YBO-BSB2 is an addressable loop powered Base Sounder with integral Beacon, innovatively designed to give a range of tones and volumes with a maximum output of up to 98 dB(A) ( $\pm 2$  dB(A)) with low current consumption. The unit is designed to fit to the Standard Base (YBN-R/3) or the Isolator Base YBN-R/3(SCI) and can be fitted with any of the ESP Range of Sensors, Beacons or Remote Indicators. The unit can also be converted into a wall sounder beacon with the simple addition of a Cap (SI/CAP2). The sounder is Ingress Protection rated to IP21 and for internal use only. An Auto-Shutdown feature allows the user to set a fixed time within which the sounder or beacon will operate, before automatically shutting down, cutting noise pollution in the case of the sounder element\*<sup>1</sup>. Sounder and Beacon elements can be operated independently from each other\*<sup>1</sup>.

#### Specification

Operating Voltage	17 ~ 41 V dc
Low Power Mode (typ)	110 $\mu$ A
Quiescent Current (typ)	250 $\mu$ A
Sounding Current (typ)	0.8 mA (50 dB(A) @ 1 m) ~ 16 mA (98 dB(A) @ 1 m)
Additional Current when Beacon active	+ 7 mA
Sound Output (at 1 metre)	50 ~ 98 dB(A) ( $\pm 2$ dB(A)) @ 24 Vdc or above (EN54-3 compliant)
Number of Tones	51
Tone Frequency Range	300 Hz ~ 2850 Hz
Operating Temperature Range	-10 °C to +50 °C
Storage Temperature Range	-30 °C to +70 °C
Maximum Humidity	95% RH - Non Condensing (at 40 °C)
Lens Material	Translucent PC
Ingress Protection Rating	IP21
Weight (g) / Dimensions (mm)	160 / H113 x W113 x D43
Base Fixing Centres (mm)	48 ~ 74
Colour / Case Material	Ivory, White or Black / PC+PS+GF5

\*<sup>1</sup> Panel compatibility dependant

Note: Although the TCH-B100 Hand Held Programmer will allow addresses between 128 and 255 to be programmed into the YBO-BSB2, addresses 1 to 127 ONLY should be used.

## How to choose your Hochiki VAD

Our VAD ratings comprise three parts, X-Y-Z

- ▶ Where X denotes the category, either “O” for Open, “W” for Wall or “C” for ceiling
- ▶ Where Y denotes the maximum mounting height (m)
- ▶ Where Z is the width and length (m) of the coverage floor area

For example C-3-5 means the VAD is in the Ceiling category, can be mounted at a maximum ceiling height of 3 metres and produces a 5 metre diameter coverage.

What type of VAD?	Which case colour?	Which LED colour?	Product	EN54-23 Ratings <sup>*3</sup>		
Base Sounder Beacon	Ivory case	White LEDs	YBO-BSB2/WL	'O' Rated		
		Red LEDs	YBO-BSB2/RL			
	White case	White LEDs	YBO-BSB2(WHT)/WL			
		Red LEDs	YBO-BSB2(WHT)/RL			
Wall Sounder Beacon	Red case	White LEDs	CHQ-WSB2/WL			
		Red LEDs	CHQ-WSB2/RL			
	White case	White LEDs	CHQ-WSB2(WHT)/WL			
		Red LEDs	CHQ-WSB2(WHT)/RL			
				0	1	2
Ceiling Beacon	Ivory Case	Red LEDs	CHQ-CB/RL	C-3-1.5	C-3-8.6	C-3-10
		White LEDs	CHQ-CB/WL	C-3-6.5	C-3-7.9	C-3-10
			CHQ-CB/WL-15	'O'	C-3-11.4	C-3-15.1
	White Case	Red LEDs	CHQ-CB(WHT)/RL	C-3-1.5	C-3-8.6	C-3-10
		White LEDs	CHQ-CB(WHT)/WL	C-3-6.5	C-3-7.9	C-3-10
			CHQ-CB(WHT)/WL-15	'O'	C-3-11.4	C-3-15.1
	Red Case	Red LEDs	CHQ-CB(RED)/RL	C-3-1.5	C-3-8.6	C-3-10
		White LEDs	CHQ-CB(RED)/WL	C-3-6.5	C-3-7.9	C-3-10
			CHQ-CB(RED)/WL-15	'O'	C-3-11.4	C-3-15.1
Wall Beacon	Ivory Case	Red LEDs	CHQ-WB/RL	'O'	W-2.4-5	W-2.4-5.5
		White LEDs	CHQ-WB/WL	W-2.4-5	W-2.4-5.5	W-2.4-7
	White Case	Red LEDs	CHQ-WB(WHT)/RL	'O'	W-2.4-5	W-2.4-5.5
		White LEDs	CHQ-WB(WHT)/WL	W-2.4-5	W-2.4-5.5	W-2.4-7
	Red Case	Red LEDs	CHQ-WB(RED)/RL	'O'	W-2.4-5	W-2.4-5.5
		White LEDs	CHQ-WB(RED)/WL	W-2.4-5	W-2.4-5.5	W-2.4-7

For CHQ-CB/WL & RL Default setting is C-3-7.5, for CHQ-CB/WL-15 Default setting is C-3-15

<sup>\*3</sup> All ratings are all based on 0.5Hz frequency.

<sup>\*4</sup> Full 'O' rating data available in our Application Notes (see below).

Current when Beacon Active

CHQ-CB/WL&RL & CHQ-WB/WL & RL	mA	6	12	17
CHQ-CB/WL-15	mA	6	17	38
CHQ-WSB2/WL&RL	mA (Beacon Only)		7 (one setting only)	
YBO-BSB2/WL&RL	mA (Beacon Only)		7 (one setting only)	

Note: Our VAD product codes feature “WL” which means white LEDs and “RL” which means red LEDs.

For details of ‘O’ Rating data for	Ceiling Beacon and Wall Beacon	See	Application Note AP131
	Wall Sounder Beacon		Application Note AP132
	Base Sounder Beacon		Application Note AP133

All Application Notes are available to download from our web site.

Ordering Codes

Product

Part Number

Ivory Case

Base Sounder Beacon - Ivory Case, White LEDS  
Base Sounder Beacon - Ivory Case, Red LEDS

YBO-BSB2/WL  
YBO-BSB2/RL

White Case

Base Sounder Beacon - White Case, White LEDS  
Base Sounder Beacon - White Case, Red LEDS

YBO-BSB2(WHT)/WL  
YBO-BSB2(WHT)/RL

Black Case

Base Sounder Beacon - Black Case, White LEDS  
Base Sounder Beacon - Black Case, Red LEDS

YBO-BSB2(BLK)/WL  
YBO-BSB2(BLK)/RL