

Analogue Wall Sounder Beacon

CHQ-WSB2



Features

- ▶ Single Loop Address - addressed via the TCH-B200 Hand Held Programmer
- ▶ Variable Sound Output
90 ~ 102 dB(A) (± 2 dB(A)) output at 1 metre
- ▶ Sounder and Beacon can operated independently*¹
- ▶ 0.5 or 1Hz flash frequency*¹
- ▶ High Intensity LED technology
- ▶ Fits Hochiki Standard or Isolator Base
- ▶ 51 User-Selectable Tones (all tones EN54-3 approved)
- ▶ Auto-Shutdown feature prevents noise pollution*¹
- ▶ 'O' Rated Beacon to EN54-23
- ▶ Available with Red or White LEDs
- ▶ Available with Red or White case
- ▶ Weatherproof Kit available
- ▶ SIL Level 2 approved variant available

Description

Model CHQ-WSB2 is an addressable loop powered Wall Sounder Beacon innovatively designed to provide a range of tones and volumes with a maximum output of up to 102dB(A) (± 2 dB(A)) with low current consumption. The unit features an integral beacon within the horn utilising high intensity LED technology and is designed to fit to the Standard Base (CHQ-WPK) & YBO-R/SCI(WHT)) or the Isolator Base (YBO-R/SCI(RED) & YBO-R/SCI(WHT)). The sounder is IP rated to IP21 for internal use but it can be made weatherproof by utilising the WS2-WPK Weatherproof Kit, which consists of a specialised back box and gasket set.

Also incorporates an auto shutdown mode*¹ which allows the user to set a fixed time within which the sounder will operate, before automatically silencing itself, ideal for minimising noise pollution.

Specification

Ordering Codes	CHQ-WSB2/WL, CHQ-WSB2/RL, CHQ-WSB2(WHT)/WL, CHQ-WSB2(WHT)/RL (add /SIL to end of product code for SIL2 approved variants)
Operating Voltage	17 ~ 41 Vdc
Quiescent Current (typ)	150 μ A (with YBO-R/3(RED) & YBO-R/3(WHT)) 200 μ A (with YBO-R/SCI(RED) & YBO-R/SCI(WHT))
Sounding Current (typ)	2 mA (90 dB(A) (± 2 dB(A)) @ 1 m) ~ 8 mA (102 dB(A) (± 2 dB(A)) @ 1 m)
Additional Current when Beacon active	+ 7 mA
Sound Output (at 1 metre)	90 ~ 102 dB(A) (± 2 dB(A)) @ 24 Vdc or above
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)
Colour/Case Material	Red or White / PC ABS
Lens Material	Translucent PC
Ingress Protection Rating	IP21 (IP65 with WS2-WPK)
Weight (g)/Dimensions (mm)	164 / H112 x W112 x D67
Base Fixing Centres (mm)	48 ~ 74

*¹ Panel compatibility dependant.

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Note: Although the TCH-B200 Hand Held Programmer will allow addresses between 128 and 255 to be programmed into the CHQ-WSB2, 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 x 5 metre coverage.

What type of VAD?	Which case colour?	Which LED colour?	Product	EN54-23 Ratings*4		
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			
				1	2	3
Ceiling Beacon	Ivory case	Red LEDs	CHQ-CB/RL	O	C-3-7.5	C-3-10
		White LEDs	CHQ-CB/WL	C-3-5	C-3-7.5	C-3-10
	White case	Red LEDs	CHQ-CB(WL)-15	O	C-3-10	C-3-15
		White LEDs	CHQ-CB(WHT)/RL	O	C-3-7.5	C-3-10
		White LEDs	CHQ-CB(WHT)/WL	C-3-5	C-3-7.5	C-3-10
		White LEDs	CHQ-CB(WHT)/WL-15	O	C-3-10	C-3-15
	Red case	Red LEDs	CHQ-CB(WHT)/WL-15	O	C-3-10	C-3-15
		Red LEDs	CHQ-CB(REL)/RL	O	C-3-7.5	C-3-10
		White LEDs	CHQ-CB(REL)/WL	C-3-5	C-3-7.5	C-3-10
		White LEDs	CHQ-CB(REL)/WL-15	O	C-3-10	C-3-15
Wall Beacon	Ivory case	White LEDs	CHQ-WB/WL	W-2.4-5	W-2.4-6	W-2.4-7
		Red LEDs	CHQ-WB/RL	O	O	W-2.4-5
	White case	White LEDs	CHQ-WB(WHT)/WL	W-2.4-5	W-2.4-6	W-2.4-7
		Red LEDs	CHQ-WB(WHT)/RL	O	O	W-2.4-5
	Red case	White LEDs	CHQ-WB(REL)/WL	W-2.4-5	W-2.4-6	W-2.4-7
		Red LEDs	CHQ-WB(REL)/RL	O	O	W-2.4-5

*4 Ratings are all based on 0.5Hz frequency.

Current when Beacon active

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

For CHQ-CB/WL & RL Default setting is **C-3-7.5**

For CHQ-CB/WL-15 Default setting is **C-3-15**

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

For details of O Rating for Ceiling Beacon please see Application Note **AP131**.

For details of O Rating for Wall Sounder Beacon see Application Note **AP132**.

For details of O Ratings for Base Sounder Beacon please see Application Note **AP133**.