Protec
Fire and Security Group

# HFC-WSR-03 - Conventional Wall Sounder



- Flexible modular design, compatible with Protec intelligent & wireless modules
- 3rd party approval to EN54-3 (Type B)
- 32 Tone Settings
- Two stage alarm capability
- Weatherproof as standard
- Easy to install
- High sound output capability
- On site adjustable volume settings
- Microphone self test facility
- Robust with high reliability

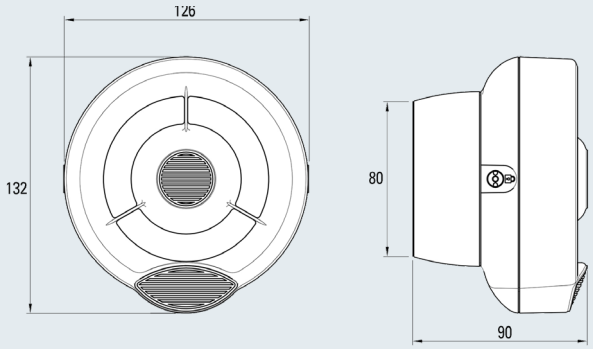
The HFC-WSR-03 Conventional Wall Sounder forms the core of our modular alarm device range. The unit can either be used as a standalone conventional device or as an intelligent unit by the addition of a wired module (HFI-SIM-01) or wireless module (HFWSIM-01). All devices are weather proof, therefore this combined with the modular approach means the majority of applications can be achieved with very few stock components. The unit is equipped with 3 levels of volume adjustment and 32 recognised tones which can be set via the control equipment or locally at the sounder.

**Order Codes**
HFC-WSR-03
HFC-WSW-03

# Technical Specification

2831 928w

## Dimensions (mm)




## Technical Specification

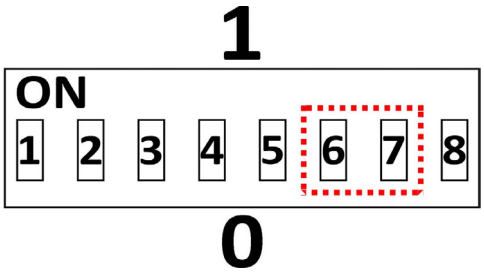
| | |
|---|---|
| Power supply voltage range | 15Vdc – 40Vdc |
| Activated current load (High Vol.) | 5-8 mA at 24 Vdc |
| Acoustic Frequency range | 400-2900 Hz |
| Maximum acoustic Output | 100 dB(A) @ 1m |
| Temperature range (no icing) | -25°C to +70°C |
| Unit weight (inc Back box) | 290g |
| Max humidity | 95% RH (non condensing) |
| Ingress Protection | Designed to meet IP 65 |
| Relevant Standard | EN54 Part 3 (Red) |
| | EN54 Part 3 (White) |

Note: Certified device performance may vary depending on the approval body

## Output Volume Setting

Use the DIP switch at the back of the sounder body for setting the output volume; in particular, switches 6 and 7 are used. The switches positioned upwards acquire value “1” or when positioned downwards acquire value “0”.

Refer to table below and set the position of both switches 6 and 7 according to the required volume when the sounder is active.




| Tone volume | Switch 6 | Switch 7 | dB(A) evaluation | Notes |
|---|---|---|---|---|
| HIGH | 1 | 1 | 100 dB(A) +0/-3 | All tones |
| MEDIUM HIGH | 0 | 1 | | All tones |
| MEDIUM LOW | 1 | 0 | | All tones |
| LOW | 0 | 0 | | |

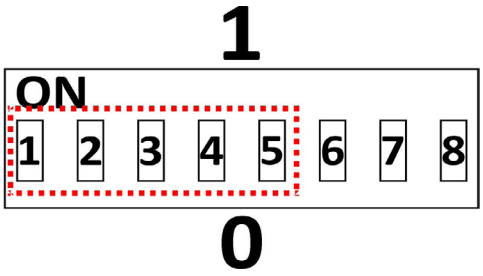
## Output Tone Setting

Use the DIP switch at the back of the sounder body for setting the output tone; in particular, switches 1 to 5 are used. The switches positioned upwards acquire value “1” or when positioned downwards acquire value “0”.

Using the DIP switches it is possible to select a tone between 1 and 32. Utilises the Standard or Alternative wiring connections determines whether this tone is selected from the Standard of Alternative tone tables (Page 4 and 5), when the sounder is activated.

When using the Intelligent interface module the Standard and alternative tones may be selected via the loop protocol and control panel settings.*

*Note: Not all functionality may be available on all control equipment. Contact technical support for specific advice.



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# Standard Tone Table

| No: | Tone Description | Tone Description | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|
| 1 | Warble Tone | 800Hz for 500ms, then 1000Hz for 500ms | 1 | 1 | 1 | 0 | 1 |
| 2 | Continous Tone | 970Hz continuous tone | 0 | 1 | 0 | 1 | 1 |
| 3 | Slow Whoop (Dutch) | 500-1200Hz for 3500ms, then off for 500ms | 1 | 0 | 1 | 0 | 1 |
| 4 | German DIN Tone | 1200Hz-500Hz sweep every 1000ms (1Hz) | 0 | 0 | 1 | 1 | 1 |
| 5 | Alternative HF slow sweep | 2350Hz-2900Hz sweep every 333ms (3Hz) | 1 | 0 | 0 | 1 | 0 |
| 6 | Alternative Warble | 800Hz for 250ms, then 960Hz for 250ms | 1 | 1 | 1 | 1 | 0 |
| 7 | Alternative Warble | 500Hz for 250ms, then 600Hz for 250ms | 1 | 1 | 1 | 1 | 0 |
| 8 | Analogue Sweep Tone | 500Hz-600Hz sweep every 500ms (2Hz) | 1 | 0 | 1 | 0 | 0 |
| 9 | Australian Alert (intermittent) | 970Hz for 625ms, then off for 625ms | 1 | 0 | 0 | 0 | 1 |
| 10 | Australian Evac (slow whoop) | 500-1200Hz sweep for 3750ms, then OFF for 250ms | 1 | 0 | 1 | 1 | 0 |
| 11 | FP1063.1- Telecom | 800Hz for 250ms, then 970Hz for 250ms | 0 | 0 | 0 | 0 | 1 |
| 12 | French Tone (Afnor) | 554Hz for 100ms then 440Hz for 400ms | 0 | 0 | 0 | 0 | 1 |
| 13 | HF Back Up interupted Tone | 2800Hz for 1sec then off for 1 second | 1 | 1 | 0 | 1 | 1 |
| 14 | HF Back Up interupted Tone (fast) | 2800Hz for 150ms, then off for 150ms | 1 | 1 | 0 | 0 | 1 |
| 15 | HF Continous | 2800Hz continuous | 0 | 1 | 0 | 0 | 1 |
| 16 | Interrupted Tone | 800Hz for 500ms, then off for 500ms | 0 | 1 | 1 | 1 | 1 |
| 17 | Interrupted Tone medium | 1000Hz for 250ms, then off for 250ms | 0 | 1 | 1 | 0 | 1 |
| 18 | ISO 8201 LF BS5839 Pt1 1988 | 970Hz for 500ms, then OFF for 500ms | 0 | 1 | 1 | 1 | 0 |
| 19 | ISO 8201 HF | 2800Hz for 500ms, then OFF for 500ms | 0 | 1 | 1 | 0 | 0 |
| 20 | LF Backup Alarm | 800Hz for 150ms, then OFF for 150ms | 1 | 1 | 0 | 1 | 0 |
| 21 | LF Buzz | 800Hz-950Hz sweep every 9ms | 0 | 1 | 0 | 1 | 0 |
| 22 | LF Continous Tone BS5839 | 800Hz continuous | 1 | 1 | 0 | 0 | 0 |
| 23 | Silent | No Sound | 1 | 1 | 1 | 1 | 1 |
| 24 | Siren 2 way ramp (long) | 500-1200Hz rising for 3000ms, then falling for 3000ms | 0 | 0 | 0 | 0 | 0 |
| 25 | Siren 2 way ramp (short) | 500-1200Hz rising for 250ms, then falling for 250ms | 0 | 0 | 0 | 1 | 0 |
| 26 | Swedish All Clear | 660Hz continuous | 0 | 0 | 1 | 0 | 0 |
| 27 | Swedish Fire Signal | 660Hz for 150ms, then OFF for 150ms | 0 | 0 | 1 | 1 | 0 |
| 28 | Sweep Tone (1Hz) | 800-900Hz sweep every 1000ms | 1 | 0 | 1 | 1 | 1 |
| 29 | Sweep Tone (3Hz) | 800-970Hz sweep every 333ms | 1 | 0 | 0 | 1 | 1 |
| 30 | Sweep Tone (9Hz) | 800-970Hz sweep every 111ms | 0 | 1 | 0 | 0 | 0 |
| 31 | US Temporal Pattern HF | (2900Hz for 500ms,then 500ms off) x3 then 1500ms off | 0 | 0 | 0 | 1 | 1 |
| 32 | LF Sweep (Cranford Tone) | 800Hz -1000Hzsweep every 500ms (2Hz) | 1 | 0 | 0 | 0 | 0 |

# Alternative Tone Table

| No: | Tone Description | Tone Description | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|
| 1 | Continous Tone | 800Hz continuous | 1 | 1 | 1 | 0 | 1 |
| 2 | Continous Tone | 1000Hz continuous tone | 0 | 1 | 0 | 1 | 1 |
| 3 | Slow Whoop (Dutch) | 500-1200Hz for 3500ms, then off for 500ms | 1 | 0 | 1 | 0 | 1 |
| 4 | Continous Tone | 800Hz continuous | 0 | 0 | 1 | 1 | 1 |
| 5 | Continous Tone | 2400Hz continuous | 1 | 0 | 0 | 1 | 0 |
| 6 | Continous Tone | 800Hz continuous | 1 | 1 | 1 | 1 | 0 |
| 7 | Continous Tone | 500Hz continuous | 1 | 1 | 1 | 1 | 0 |
| 8 | Continous Tone | 500Hz continuous | 1 | 0 | 1 | 0 | 0 |
| 9 | Continous Tone | 2400Hz continuous | 1 | 0 | 0 | 0 | 1 |
| 10 | Australian Evac (slow whoop) | 500-1200Hz sweep for 3750ms, then OFF for 250ms | 1 | 0 | 1 | 1 | 0 |
| 11 | Siren 2 way ramp (short) | 500-1200Hz rising for 250ms, then falling for 250ms | 0 | 0 | 0 | 0 | 1 |
| 12 | Continous Tone | 800Hz continuous | 0 | 0 | 0 | 0 | 1 |
| 13 | Continous Tone | 2800Hz continuous | 1 | 1 | 0 | 1 | 1 |
| 14 | Continous Tone | 800Hz continuous | 1 | 1 | 0 | 0 | 1 |
| 15 | Continous Tone | 2800Hz continuous | 0 | 1 | 0 | 0 | 1 |
| 16 | Continous Tone | 800Hz continuous | 0 | 1 | 1 | 1 | 1 |
| 17 | Continous Tone | 800Hz continuous | 0 | 1 | 1 | 0 | 1 |
| 18 | ISO 8201 LF BS5839 Pt1 1988 | 970Hz for 500ms, then OFF for 500ms | 0 | 1 | 1 | 1 | 0 |
| 19 | ISO 8201 HF | 2850Hz for 500ms, then OFF for 500ms | 0 | 1 | 1 | 0 | 0 |
| 20 | Continous Tone | 800Hz continuous | 1 | 1 | 0 | 1 | 0 |
| 21 | Continous Tone | 800Hz continuous | 0 | 1 | 0 | 1 | 0 |
| 22 | Continous Tone | 800Hz continuous | 1 | 1 | 0 | 0 | 0 |
| 23 | Continous Tone | 800Hz continuous | 1 | 1 | 1 | 1 | 1 |
| 24 | Continous Tone | 800Hz continuous | 0 | 0 | 0 | 0 | 0 |
| 25 | Continous Tone | 800Hz continuous | 0 | 0 | 0 | 1 | 0 |
| 26 | Continous Tone | 660Hz continuous | 0 | 0 | 1 | 0 | 0 |
| 27 | Swedish Fire Signal | 660Hz for 150ms, then OFF for 150ms | 0 | 0 | 1 | 1 | 0 |
| 28 | Continous Tone | 800Hz continuous | 1 | 0 | 1 | 1 | 1 |
| 29 | Continous Tone | 800Hz continuous | 1 | 0 | 0 | 1 | 1 |
| 30 | Continous Tone | 800Hz continuous | 0 | 1 | 0 | 0 | 0 |
| 31 | Continous Tone | 2900Hz continuous | 0 | 0 | 0 | 1 | 1 |
| 32 | Continous Tone | 800Hz continuous | 1 | 0 | 0 | 0 | 0 |