

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification-UK, approved body No. 8504.

In compliance with UK STATUTORY INSTRUMENT 2020 No. 1359 Construction Products Regulation 2011 (retained EU law EUR 305/2011) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020, this certificate applies to the construction product

HFW-BS-05, HFW-BSB-05

The product fulfils the essential characteristic:

See Annex 1

Intended use:

Applications related to automatic fire alarm systems

Placed on the market under the name or trade mark of:

**Hyfire Wireless Fire Solutions Ltd
Unit B12a Holly Farm Business Park
Honiley, Warwickshire, CV81NP
United Kingdom**

and produced in the manufacturing plant:

UKCPA10005

This attests that all provisions concerning the performance described in Annex ZA of the standard(s)

EN 54-3:2001+A1:2002+A2:2006 : Fire detection and fire alarm systems — Part 3: Fire alarm devices — Sounders
EN 54-25:2008+AC:2012 : Fire detection and fire alarm systems — Part 25: Components using radio links

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

CONSTANCY OF PERFORMANCE OF THE CONSTRUCTION PRODUCT.

This certificate was first issued on 2022-08-10 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

The attached annexes form part of this certificate.

Date of issue: **2022-08-10**.



Merete Poulsen
Responsible for evaluation



Steen Nilsson
Responsible for certification decision

Annex 1

EXTENT

Product description:

HFW-BS-05 Sounder Fire Alarm Device using Radio Links
HFW-BSB-05 Sounder Fire Alarm Device using Radio Links

Configuration:

Plastic enclosure (dimensions: 120 (d) x 52 (h) mm) with IP21C degree of protection, containing:

- No. 1 Main board (PCB code B40-SGRB2-0004)
- No. 1 Piezoelectric buzzer (trademark Cranford Controls Ltd., model PZ118_005W v1)
- No. 1 bicolour red - green LED (trademark, Kingbright, model L-59SURKVGAW PTH Led)
- No. 2 Battery allocable (CR123A Lithium, 3 V – 1.2Ah)
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HFW-BS-05 is identical to HFW-BSB-05 without supplementary visual indicator.

Technical Characteristics

- Tone patterns in compliance with EN 54-3:
 - o Warble Tone: 800 Hz for 500 ms then 1000 Hz for 500 ms
 - o Continuous tone: 970 Hz continuous
 - o Slow Whoop (Dutch): 500-1200 Hz for 3500 ms, then off for 500 ms
 - o German DIN tone: 1200-500Hz swept every 1000 ms (1Hz)
 - o Alternative Warble – 800 Hz for 250 ms, then 960 Hz for 250 ms
- Destination for use: Type A (for internal)
- Operating frequency band: 868 MHz

- Hardware identification of the microcontroller used on the main board:
 - o Microchip PIC18F1320

- Firmware identification of the microcontroller used on the main board:
 - o Sirena_r_CC1120_V7p9_20170321.HEX crc16: 0xEE51

Performance		
Essential characteristics	Clauses in EN 54-3:2001+A1:2002+A2:2006	Performance
Performance under fire conditions	4.2, 4.3, 5.2, 5.3	Pass
Operational reliability	4.4, 4.5, 4.6, 5.4	Pass
Durability of operational reliability and response delay; temperature resistance	5.5, 5.7, 5.8, 5.9	Pass
Durability of operational reliability; humidity resistance	5.8, 5.9	Pass
Durability of operational reliability; corrosion resistance	5.11	Pass
Durability of operational reliability; vibration resistance	5.12 to 5.15	Pass
Durability of operational reliability; electrical stability	5.16	Pass
Durability of operational reliability; resistance to ingress	5.17	Pass
5.16 applies only to sounders or voice sounders with active electronic components		
Essential characteristics	Clauses in EN 54-25:2008+AC:2012	Performance
Performance parameters under fire conditions	4.1, 4.2.2, 5.2, 8.3.7	Pass
Response delay (response time to fire)	8.2.3, 8.2.6	Pass
Operational reliability	4.2.1, 4.2.3 to 4.2.7, 5.3, 5.4, 6, 7, 8.2.2, 8.2.4, 8.2.5, 8.2.7, 8.2.8, 8.2.9, 8.3.1, 8.3.2, 8.3.3, 8.3.4, 8.3.5, 8.3.6	Pass
Durability of operational reliability and response delay; temperature resistance	8.3.9, 8.3.10, 8.3.11	Pass
Durability of operational reliability; vibration resistance	8.3.16, 8.3.17 to 8.3.19	Pass
Durability of operational reliability; humidity resistance	8.3.12, 8.3.14	Pass
Durability of operational reliability; corrosion resistance	8.3.15	Pass
Durability of operational reliability; electrical stability	8.3.20	Pass

**Annex 2
TEST DOCUMENTATION**

Test documentation can be found in case no. UKCSP10102-001.

TECHNICAL BASIS

File Number	Title	Date
BOM-SGRBL-0004 (SGRBS100_L, SGRBS100-AV_L)	LIBRA WIRELESS BASE SOUNDER - SGRBS100/L & SGRBS100-AV/L (868, 865 & 434MHZ) - Bill of Materials	2022-03-25, Rev. J

DBI Certification-UK Ltd.

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