

**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

**TAU-MWSO-01+HFC-SBR-23-03**

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 54-23:2010** : **Fire detection and fire alarm systems — Part 23: Fire alarm devices — Visual alarm devices**
- 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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:**

TAU-MWSO-01+HFC-SBR-23-03 sounder and visual alarm device using radio links

**Configuration:**

The sounder and visual alarm device model TAU-MWSO-01 + HFC-SBR-23-03 consists of a plastic enclosure (dimensions: 130 (d) x 90 (h) mm) with IP33C degree of protection which contains a:

- Wireless module model TAU-MWSO-01, containing:
  - No. 1 Main board (PCB code B40-ISWSM-0002)
  - No. 2 Battery allocable (CR123A Lithium, 3 V – 1.25Ah)
- Sounder and visual alarm device model HFC-SBR-23-03, containing
  - No. 1 Main board (PCB code B20-CWS1X-1002)
  - No. 1 Piezoelectric buzzer

**Technical Characteristics:**

Tone patterns in compliance with EN 54-3:

- Warble Tone: 800 Hz for 500 ms then 1000 Hz for 500 ms
- Continuous tone: 970 Hz continuous
- Slow Whoop (Dutch): 500-1200 Hz for 3500 ms, then off for 500 ms
- German DIN tone: 1200-500Hz swept every 1000 ms (1Hz)

Coverage characteristics: W2.5-7

Flash rate: 0.5 Hz

Destination for use: Type B (for external)

Operating frequency band: 868 MHz ; 916 MHz

Hardware identification of the microcontroller (U5) used on the main board (PCB code B40-ISWSM-0002):

STMicroelectronics, STM32L051R8

Firmware identification of the microcontroller (U5) used on the main board (PCB code B40-ISWSM-0002):

- 0\_1\_12, using the 868 MHz frequency band
- 0\_1\_13, using the 916 MHz frequency band
- 

**List of optional functions with requirements (EN 54-23):**

4.3.7 Synchronization

**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, 5.6, 5.7, 5.8, 5.9	Pass
Durability of operational reliability; humidity resistance	5.8, 5.9, 5.10	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

Essential characteristics	Clauses in EN 54-23:2010	Level(s) or class(es)	Notes
Operational reliability: Duration of operation Flammability of materials Enclosure protection Access Manufacturer's adjustments Requirements for software controlled devices	4.2.1 4.2.3 4.2.4 4.2.5 4.2.6 4.2.8		Pass Pass Pass Pass Pass Pass
Performance parameters under fire condition: Coverage volume Variation of light output Minimum and maximum light intensity Light colour Light temporal pattern and frequency of flashing Marking and data Synchronization (option with requirements)	4.3.1 4.3.2 4.3.3 4.3.4 4.3.5 4.3.6 4.3.7		Pass Pass Pass Red/White Pass/0.5 Hz Pass Pass
Durability: Temperature resistance: Dry heat (operational) Dry heat (endurance) Cold (operational) Humidity resistance: Damp heat, cyclic (operational) Damp heat, steady state (endurance) Damp heat, cyclic (endurance) Shock and vibration resistance: Shock (operational) Impact (operational) Vibration (operational) Vibration (endurance) Corrosion resistance: SO <sub>2</sub> corrosion (endurance) Electrical stability: EMC, immunity (operational)	4.4.1.1 4.4.1.2 4.4.1.3 4.4.2.1 4.4.2.2 4.4.2.3 4.4.3.1 4.4.3.2 4.4.3.3 4.4.3.4 4.4.4 4.4.5	None	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass

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, 8.3.13, 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. UKCSP10085-001.

TECHNICAL BASIS

File Number	Title	Date
BOM-CWS1X-1002	CONVENTIONAL WALL SOUNDER BEACON (CWS100-AV) & WHITE VERSION CWS100-AV(W) - Bill of Material	2022-03-25, Rev. Q
BOM-TWMWS-0002	TAURUS WIRELESS WALL SOUNDER OUTPUT MODULE (TW-MWSO-01) - 868 / 916 MHz VARIANTS - Bill of Material	2021-12-27, Rev. N

