

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-CEM-01

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 54-18:2005 : **Fire detection and fire alarm systems — Part 18: Input/output 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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-CEM-01 Input/Output Device using Radio Links

Configuration
The output device model TAU-CEM-01 consists of a plastic enclosure (dimensions: 235 x 160 x 65 mm) with IP30 degree of protection, containing:

- No. 1 Main board (PCB code B40-TWMEC-0003)
- No. 1 Display board (PCB code B20-CWEX2-2002)
- No. 1 SX antenna board (PCB code B40-CWEX2-3002)
- No. 1 DX antenna board (PCB code B40-CWEX2-4001)

Technical Characteristics
Operating frequency band: 868 MHz ; 916 MHz;
Hardware identification of the microcontroller (U13 and U19) used on the main board:

- STMicroelectronics, STM32L471VG (U13)
- STMicroelectronics, STM32L151RC (U19)

Firmware identification of the microcontroller (U13 and U19) used on the main board:

- 0_6_2e (U13) ; 0_6_2a (U19), using the 868 MHz frequency band
- 0_6_2e (U13) ; 0_6_3 (U19), using the 916 MHz frequency band

Performance

Essential characteristics	Clauses in EN 54-18:2005	Performance
Response delay (response time)	5.2 1)	Pass
Performance under fire conditions	5.1.4	Pass
Operational reliability	5.1.4	Pass
Durability of operational reliability; temperature resistance	5.3, 5.4	Pass
Durability of operational reliability; vibration resistance	5.8 to 5.11	Pass
Durability of operational reliability; humidity resistance	5.5, 5.6	Pass
Durability of operational reliability; corrosion resistance	5.7	Pass
Durability of operational reliability; electrical stability	5.2, 5.12	Pass
1) Response delays may not be a function of the input/output device, in which case no assessment is made as part of this standard		

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

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No. 23333

Annex 2
TEST DOCUMENTATION

Test documentation can be found in case no. UKCSP10092-001.

TECHNICAL BASIS

File Number	Title	Date
BOM-TWMEC-0003	TAURUS WIRELESS CONVENTIONAL EXPANDER MODULE (TW-MEC-01) - 868 / 916 MHz VARIANTS - Bill of Material	2022-03-25, Rev. N

