



1922-CPR-1595

DECLARATION OF PERFORMANCE

In accordance with 305/2011/EU
Ref: BİLGİ-CPR-202304-02

Product Code: teknim TWD-1850

Product Name: Wireless Addressable Multi Detector (Optical Smoke, Fixed Heat, Heat Rise)

Manufacturer: Bilgi Elektronik San. ve Tic. A.Ş.
Dudullu Organize Sanayi Bölgesi 1.Cadde İsmet Tarman İş
Merkezi No:1 Kat:2 D:32 34776 Ümraniye - İstanbul / Türkiye

Intended Use: Fire Detection and Fire Alarm Systems Installed in Buildings

Systems of Assessment and Verification for Constancy of Performance: System 1

Harmonized Standards: EN 54-5:2017+A1:2018;
EN 54-7:2018;
EN 54-25:2008, EN 54-25:2008/AC:2010,
EN 54-25:2008/AC:2012

Notified Body: DEDAL Attestation & Certification – NB No:1922

| Essential Characteristics | Performance | EN 54-5:2017+A1:2018 |
|---|--------------------|-----------------------------|
| Operational reliability | | |
| — <i>Position of the heat sensitive</i> | Pass | 4.2.1 |
| — <i>Individual alarm indication</i> | Pass | 4.2.2 |
| — <i>Connection of ancillary devices</i> | N/A | 4.2.3 |
| — <i>Monitoring of detachable detector</i> | Pass | 4.2.4 |
| — <i>Manufacturing adjustments</i> | Pass | 4.2.5 |
| — <i>On-site adjustment of response behaviour</i> | N/A | 4.2.6 |
| — <i>Software controlled detectors (when provided)</i> | Pass | 4.2.7 |
| Nominal activation conditions / sensitivity / | | |
| — <i>Directional dependence</i> | Pass | 4.3.1 |
| — <i>Static response temperature</i> | Pass | 4.3.2 |
| — <i>Response times for typical application temperature</i> | Pass | 4.3.3 |
| — <i>Response times for 25°C</i> | N/A | 4.3.4 |
| — <i>Response times from high ambient temperature</i> | Pass | 4.3.5 |
| — <i>Reproducibility</i> | Pass | 4.3.6 |
| Response delay (response time) | | |
| — <i>Additional test for suffix S point heat detectors</i> | Pass | 4.4.1 |
| — <i>Additional test for suffix R point heat detectors</i> | N/A | 4.4.2 |
| Tolerance to supply voltage | | |
| — <i>Variation in supply parameters</i> | Pass | 4.4.5 |
| Durability of Nominal activation conditions /Sensitivity | | |
| <i>Temperature resistance</i> | | |
| — <i>Cold (operational)</i> | Pass | 4.6.1.1 |
| — <i>Dry heat (endurance)</i> | N/A | 4.6.2.2 |
| <i>Humidity resistance</i> | | |
| — <i>Damp heat, cycling (operational)</i> | Pass | 4.6.2.1 |
| — <i>Damp heat, steady-state (endurance)</i> | Pass | 4.6.2.2 |
| — <i>Corrosion resistance: Sulphur dioxide (SO₂) corrosion (endurance)</i> | Pass | 4.6.3 |
| Vibration Resistance | | |
| — <i>Shock (operational)</i> | Pass | 4.6.4.1 |
| — <i>Impact (operational)</i> | Pass | 4.6.4.2 |
| — <i>Vibration, sinusoidal (operational)</i> | Pass | 4.6.4.3 |
| — <i>Vibration, sinusoidal (endurance)</i> | Pass | 4.6.4.4 |
| Electrical stability | | |
| — <i>(EMC), Immunity (operational)</i> | Pass | 4.6.5 |

| Essential Characteristics | Performance | EN 54-7:2018 |
|---|--------------------|---------------------|
| Operational reliability | | |
| — <i>Individual alarm indication</i> | Pass | 4.2.1 |
| — <i>Connection of ancillary devices</i> | N/A | 4.2.2 |
| — <i>Monitoring of detachable detectors</i> | Pass | 4.2.3 |
| — <i>Manufacturer's adjustments</i> | Pass | 4.2.4 |
| — <i>On-site adjustment of response behaviour</i> | Pass | 4.2.5 |
| — <i>Protection against the ingress of foreign bodies</i> | Pass | 4.2.6 |
| — <i>Response to slowly developing fires</i> | Pass | 4.2.7 |
| — <i>Software controlled detector (when provided)</i> | Pass | 4.2.8 |
| Nominal activation conditions / Sensitivity | | |
| — <i>Repeatability</i> | Pass | 4.3.1 |
| — <i>Directional dependence</i> | Pass | 4.3.2 |
| — <i>Reproducibility</i> | Pass | 4.3.3 |
| Response delay (response time) | | |
| — <i>Air movement</i> | Pass | 4.4.1 |
| — <i>Dazzling</i> | Pass | 4.4.2 |
| Tolerance to supply voltage | | |
| — <i>Variation in supply parameters</i> | Pass | 4.5 |
| Durability of Nominal activation condition / Sensitivity | | |
| <i>Temperature resistance</i> | | |
| — <i>Cold (operational)</i> | Pass | 4.7.1.1 |
| — <i>Dry heat (operational)</i> | Pass | 4.7.1.2 |
| <i>Humidity resistance</i> | | |
| — <i>Damp heat, steady-state (operational)</i> | Pass | 4.7.2.1 |
| — <i>Damp heat, steady-state (endurance)</i> | Pass | 4.7.2.2 |
| <i>Corrosion resistance</i> | | |
| — <i>Sulfur dioxide (SO₂) corrosion (endurance)</i> | Pass | 4.7.3 |
| <i>Vibration Resistance</i> | | |
| — <i>Shock (operational)</i> | Pass | 4.7.4.1 |
| — <i>Impact (operational)</i> | Pass | 4.7.4.2 |
| — <i>Vibration, sinusoidal (operational)</i> | Pass | 4.7.4.3 |
| — <i>Vibration, sinusoidal (endurance)</i> | Pass | 4.7.4.4 |
| Electrical stability | | |
| — <i>EMC, immunity (operational)</i> | Pass | 4.7.5 |

| Essential Characteristics | Performance | EN 54-25:2008+ AC:2010+AC:2012 |
|---|-------------|-----------------------------------|
| Performance under fire conditions | | |
| — Radio frequency links | Pass | 4.2 |
| — Alarm signal integrity | Pass | 4.2.2 |
| — General | Pass | 5.2 |
| — Reproducibility test | Pass | 8.3.7 |
| Response delay (response time to fire) | | |
| — Test form alarm signal integrity | Pass | 8.2.3 |
| — Test for mutual disturbance between systems of the same manufacturer | Pass | 8.2.6 |
| Operational reliability | | |
| — Immunity to site attenuation | Pass | 4.2.1 |
| — Identification of the RF linked component | Pass | 4.2.3 |
| — Receiver performance | Pass | 4.2.4 |
| — Immunity to interference | Pass | 4.2.5 |
| — Loss of communication | Pass | 4.2.6 |
| — Antenna | Pass | 4.2.7 |
| — Power supply equipment | Pass | 5.3 |
| — Environmental related requirements | Pass | 5.4 |
| — Documentation | Pass | 6 |
| — Marking | Pass | 7 |
| — Test for immunity to site attenuation | Pass | 8.2.2 |
| — Test for identification of RF linked components | Pass | 8.2.4 |
| — Test for identification of RF linked components | Pass | 8.2.5 |
| — Test of compatibility with other band users | Pass | 8.2.7 |
| — Test for the detection of a loss of communication on a link | Pass | 8.2.8 |
| — Test of the antenna | Pass | 8.2.9 |
| — General | Pass | 8.3.1 |
| — Test schedule for components tests | Pass | 8.3.2 |
| — Verification of the service life of the autonomous power source(s) | Pass | 8.3.3 |
| — Test for the low power condition fault signal | Pass | 8.3.4 |
| — Test for the polarity reversal | Pass | 8.3.5 |
| — Repeatability test | Pass | 8.3.6 |
| Durability of operational reliability and response delay. temperature resistance | | |
| — Dry heat (operational) | Pass | 8.3.9 |
| — Dry heat (endurance) | Pass | 8.3.10 |
| — Cold (operational) | Pass | 8.3.11 |
| Durability of operational reliability. vibration resistance | | |
| — Shock (operational) | Pass | 8.3.16 |
| — Impact (operational) | Pass | 8.3.17 |
| — Vibration. sinusoidal (operational) | Pass | 8.3.18 |
| — Vibration. sinusoidal (operational) | Pass | 8.3.19 |
| Durability of operational reliability. humidity resistance | | |
| — Damp heat. cyclic (operational) | Pass | 8.3.12 |
| — Damp heat. steady-state (operational) | Pass | 8.3.13 |
| — Damp heat. steady state (endurance) | Pass | 8.3.14 |
| Durability of operational reliability. corrosion resistance | | |
| — SO2 corrosion (endurance) | Pass | 8.3.15 |
| Durability of operational reliability. electrical stability | | |
| — Electromagnetic compatibility (EMC). immunity tests (operational) | Pass | 8.3.20 |

The performance of the product identified above is in conformity with the set of declared performance characteristics. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011 under the sole responsibility of the manufacturer identified above.

Istanbul, 18.01.2023

Signed for and on behalf of the manufacturer by:

*Saruhan Acar
Vice General Manager*

A handwritten signature in black ink, consisting of stylized letters 'S' and 'A' followed by a horizontal line, positioned below the printed name and title.