

CERTIFICATE

of constancy of performance

1922 - CPR - 1597

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Fire detection and fire alarm systems. Input/output devices. Components using radio links. tekrim TWM-1886 Wireless Addressable Router

(For list of controlled characteristics, see Annex I and Annex II to 1922 - CPR - 1597 that are an inseparable part of this certificate)

placed on the market under the name or trade mark of

Bilgi Elektronik Sanayi ve Ticaret A.Ş.

**Dudullu Organize Sanayi Bölgesi 1. Cadde İsmet Tarman İş Merkezi No:1, Kat:2
D.32 Ümraniye, İstanbul, Turkey**

and produced in the manufacturing plant of

Bilgi Elektronik Sanayi ve Ticaret A.Ş.

**Dudullu Organize Sanayi Bölgesi 1. Cadde İsmet Tarman İş Merkezi No:1, Kat:2
D.32 Ümraniye, İstanbul, Turkey**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

**EN 54-18:2005, EN 54-18:2005/AC:2007; EN 54-25:2008,
EN 54-25:2008/AC:2010, EN 54-25:2008/AC:2012;**

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 14.09.2021 and will remain valid until 28.11.2023 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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 certificate is supported through annual surveillance audit and is reissued after each surveillance audit. The validity of the certificate may be confirmed in the CE register at the web address www.dedal-bg.net.



Attestation & Certification

Manager:

Anna Vasileva

dipl. eng. Anna Vasileva

ANNEX I TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922 - CPR - 1597/14.09.2021

Performance list, acc. to EN 54-18:2005; EN 54-18:2005/AC:2007

| Essential Characteristics | Performance | Clause |
|--|-------------|--------|
| Response delay (response time) | | |
| - Performance and variation of supply parameters | Pass | 5.2 |
| Performance under fire conditions | | |
| - Functional test | Pass | 5.1.4 |
| Operational reliability | | |
| - Functional test | Pass | 5.1.4 |
| Durability of operational reliability, temperature resistance | | |
| - Dry heat (operational) | Pass | 5.3 |
| - Cold (operational) | Pass | 5.4 |
| Durability of operational reliability, vibration resistance | | |
| - Shock (operational) | Pass | 5.8 |
| - Impact (operational) | Pass | 5.9 |
| - Vibration, sinusoidal (operational) | Pass | 5.10 |
| - Vibration, sinusoidal (endurance) | Pass | 5.11 |
| Durability of operational reliability, humidity resistance | | |
| - Damp heat, cyclic (operational) | Pass | 5.5 |
| - Damp heat, steady state (endurance) | Pass | 5.6 |
| Durability of operational reliability, corrosion resistance | | |
| - Sulphur dioxide (SO ₂) corrosion (endurance) | Pass | 5.7 |
| Durability of operational reliability, electrical stability | | |
| - Performance and variation of supply parameters | Pass | 5.2 |
| - Electromagnetic compatibility (EMC), immunity tests | Pass | 5.12 |



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ANNEX II TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922 - CPR - 1597/14.09.2021

Performance list, acc. to EN 54-25:2008, EN 54-25:2008/AC:2010, EN 54-25:2008/AC:2012

| Essential Characteristics | Performance | Clause |
|---|-------------|--------|
| 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 for 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 |
| - Repetability 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 (endurance) | 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 |



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