

# CERTIFICATE

## of constancy of performance

### 1922 - CPR - 1598

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. teknim TWM-1887 Wireless Addressable Input/Output Module**

(For list of controlled characteristics, see Annex I and Annex II to 1922 - CPR - 1598 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 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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](http://www.dedal-bg.net).



Manager:

*Anna Vasileva*



dipl. eng. Anna Vasileva

Issued:  
Burgas, 14 September 2021

Ref. No. 01-00

## ANNEX I TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922 - CPR - 1598/14.09.2021

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

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



Manager:

*Anna Vasileva*  
dipl. eng. Anna Vasileva

Issued:  
Burgas, 14 September 2021

Ref. No. 01-00

## ANNEX II TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922 - CPR - 1598/14.09.2021

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

Essential Characteristics	Performance	Clause
<b>Performance under fire conditions</b>		
- Radio frequency links	Pass	4.2
- Alarm signal integrity	Pass	4.2.2
- General	Pass	5.2
- Reproducibility test	Pass	8.3.7
<b>Response delay (response time to fire)</b>		
- Test for alarm signal integrity	Pass	8.2.3
- Test for mutual disturbance between systems of the same manufacturer	Pass	8.2.6
<b>Operational reliability</b>		
- 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
<b>Durability of operational reliability and response delay, temperature resistance</b>		
- Dry heat (operational)	Pass	8.3.9
- Dry heat (endurance)	Pass	8.3.10
- Cold (operational)	Pass	8.3.11
<b>Durability of operational reliability, vibration resistance</b>		
- 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
<b>Durability of operational reliability, humidity resistance</b>		
- 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
<b>Durability of operational reliability, corrosion resistance</b>		
- SO2 corrosion (endurance)	Pass	8.3.15
<b>Durability of operational reliability, electrical stability</b>		
- Electromagnetic compatibility (EMC), immunity tests (operational)	Pass	8.3.20



Manager:

*Anna Vasileva*



dipl. eng. Anna Vasileva

Issued:  
Burgas, 14 September 2021

Ref. No. 01-00