

# CERTIFICATE

## of constancy of performance

### 1922 - CPR - 1845

In compliance with Regulation (EU) 305/2011 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. Fire alarm devices. Sounders. Components using radio links, model tekrim TWS-1815 Wireless intelligent Sounder and Flasher**

(For list of controlled characteristics, see Annex I, II to 1922 - CPR - 1845 that are an inseparable part of this certificate)

placed on the market under the name or trade mark of

**Bilgi Elektronik San. ve Tic. A.Ş.**

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

and produced in the manufacturing plant

**Bilgi Elektronik San. ve Tic. A.Ş.**

**Dudullu Organize Sanayi Bölgesi 1. Cadde İsmet Tarman İş Merkezi No:1, Kat:2  
No.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 54-3:2001, EN 54-3:2001/A1:2002, EN 54-3:2001/A2:2006 and  
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 26.08.2022 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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*

Issued:  
Burgas, 26 August 2022

Ref. No. 01-00

dipl. eng. Anna Vasileva

## ANNEX I TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922-CPR-1845/ 26.08.2022

Performance list, acc. to EN 54-3:2001, EN 54-3:2001/A1:2002, EN 54-3:2001/A2:2006

Essential Characteristics	Performance	Clause
<b>Performance parameters under fire conditions</b>		
- Sound level	Pass	4.2
- Frequencies and sound pattern	Pass	4.3
- Reproducibility	Pass	5.2
- Operational performance	Pass	5.3
- Attention drawing signal and message broadcast sequences	N/A	C.3.1
- Synchronisation	N/A	C.3.2
- Broadcast message performance	N/A	C.5.1
- Attention drawing signal/silence/message sequence timing	N/A	C.5.2
- Message synchronization testing	N/A	C.5.3
<b>Operational reliability</b>		
- Durability	Pass	4.4
- Construction	Pass	4.5
- Marking and data	Pass	4.6
- Durability	Pass	5.4
- General testing	N/A	C.4
<b>Durability of operational reliability, temperature resistance</b>		
- Dry heat (operational)	Pass	5.5
- Dry heat (endurance)	N/A	5.6
- Cold (operational)	Pass	5.7
- Damp heat, cyclic (operational)	Pass	5.8
- Damp heat, steady state (endurance)	Pass	5.9
<b>Durability of operational reliability, humidity resistance</b>		
- Damp heat, cyclic (operational)	Pass	5.8
- Damp heat, steady state (endurance)	Pass	5.9
- Damp heat, cyclic (endurance)	N/A	5.10
<b>Durability of operational reliability, corrosion resistance</b>		
- Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)	Pass	5.11
<b>Durability of operational reliability, shock and vibration resistance</b>		
- Shock (operational)	Pass	5.12
- Impact (operational)	Pass	5.13
- Vibration, sinusoidal (operational)	Pass	5.14
- Vibration, sinusoidal (endurance)	Pass	5.15
<b>Durability, electrical stability</b>		
- Electromagnetic compatibility (EMC), immunity (operational)	Pass	5.16
<b>Durability of operational reliability, resistance to ingress</b>		
- Enclosure protection	Pass	5.17



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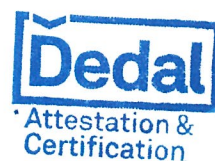
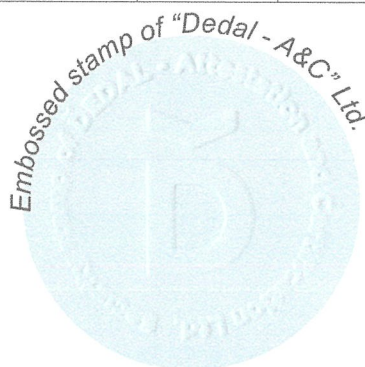
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## ANNEX II TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922 - CPR - 1845/26.08.2022

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 the receiver performance	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)	N/A	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



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