



1922-CPR-1845

## DECLARATION OF PERFORMANCE

In accordance with 305/2011/EU  
Ref: BİLGİ-CPR-202309-25

**Product Code:** teknim TWS-1815

**Product Name:** Wireless Sounder and Beacon

**Manufacturer:** Bilgi Elektronik San. ve Tic. A.Ş.  
Dudullu Organize Sanayi Bölgesi 1.Cadde İsmet Tarman İş  
Merkezi No:1 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 54-3:2001, EN 54-3:2001/A1:2002,  
EN 54-3:2001/A2:2006,  
EN 54-25:2008, EN 54-25:2008/AC:2010,  
EN 54-25:2008/AC:2012

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

<i>Essential Characteristics</i>	<i>Performance</i>	<i>EN 54-3:2001+ A1:2002+A2:2006</i>
<b><i>Performance parameters under fire conditions</i></b>		
— <i>Sound level</i>	<i>Pass</i>	<i>4.2</i>
— <i>Frequencies and sound pattern</i>	<i>Pass</i>	<i>4.3</i>
— <i>Reproducibility</i>	<i>Pass</i>	<i>5.2</i>
— <i>Operational performance</i>	<i>Pass</i>	<i>5.3</i>
— <i>Attention drawing signal and message broadcast sequences</i>	<i>N/A</i>	<i>C.3.1</i>
— <i>Synchronisation</i>	<i>N/A</i>	<i>C.3.2</i>
— <i>Broadcast message performance</i>	<i>N/A</i>	<i>C.5.1</i>
— <i>Attention drawing signal/silence/message sequence timing</i>	<i>N/A</i>	<i>C.5.2</i>
— <i>Message synchronization testing</i>	<i>N/A</i>	<i>C.5.3</i>
<b><i>Operational reliability</i></b>		
— <i>Durability</i>	<i>Pass</i>	<i>4.4</i>
— <i>Construction</i>	<i>Pass</i>	<i>4.5</i>
— <i>Marking and data</i>	<i>Pass</i>	<i>4.6</i>
— <i>Durability</i>	<i>Pass</i>	<i>5.4</i>
— <i>General testing</i>	<i>N/A</i>	<i>C.4</i>
<b><i>Durability of operational reliability, temperature resistance</i></b>		
— <i>Dry heat (operational)</i>	<i>Pass</i>	<i>5.5</i>
— <i>Dry heat (endurance)</i>	<i>N/A</i>	<i>5.6</i>
— <i>Cold (operational)</i>	<i>Pass</i>	<i>5.7</i>
— <i>Damp heat, cyclic (operational)</i>	<i>Pass</i>	<i>5.8</i>
— <i>Damp heat, steady state (endurance)</i>	<i>Pass</i>	<i>5.9</i>
<b><i>Durability of operational reliability, humidity resistance</i></b>		
— <i>Damp heat, cyclic (operational)</i>	<i>Pass</i>	<i>5.8</i>
— <i>Damp heat, steady state (endurance)</i>	<i>Pass</i>	<i>5.9</i>
— <i>Damp heat, cyclic (endurance)</i>	<i>N/A</i>	<i>5.10</i>
<b><i>Durability of operational reliability, corrosion resistance</i></b>		
— <i>Sulphur dioxide (SO<sub>2</sub>) corrosion (endurance)</i>	<i>Pass</i>	<i>5.11</i>
<b><i>Durability of operational reliability, shock and vibration resistance</i></b>		
— <i>Shock (operational)</i>	<i>Pass</i>	<i>5.12</i>
— <i>Impact (operational)</i>	<i>Pass</i>	<i>5.13</i>
— <i>Vibration, sinusoidal (operational)</i>	<i>Pass</i>	<i>5.14</i>
— <i>Vibration, sinusoidal (endurance)</i>	<i>Pass</i>	<i>5.15</i>
<b><i>Durability, electrical stability</i></b>		
— <i>Electromagnetic compatibility (EMC), immunity (operational)</i>	<i>Pass</i>	<i>5.16</i>
<b><i>Durability of operational reliability, resistance to ingress</i></b>		
— <i>Enclosure protection</i>	<i>Pass</i>	<i>5.17</i>

<b>Essential Characteristics</b>	<b>Performance</b>	<b>EN 54-25:2008+ AC:2010+AC:2012</b>
<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

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.

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*Istanbul, 15.02.2023*

*Signed for and on behalf of the manufacturer by:*

*Saruhan Acar  
Vice General Manager*

