



1922-CPR-1597

DECLARATION OF PERFORMANCE

In accordance with 305/2011/EU
Ref: BİLGİ-CPR-202424-48

Product Code: teknim TWM-1886

Product Name: Wireless Repeater

Manufacturer: Teknim 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 54-18:2005,
EN 54-18:2005/AC:2007
EN 54-25:2008,
EN 54-25:2008/AC:2010/AC:2012

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

<i>Essential Characteristics</i>	<i>Performance</i>	<i>EN 54-18:2005+AC:2007</i>
Response delay (response time)		
— <i>Performance and variation of supply parameters</i>	<i>Pass</i>	5.2
Performance under fire conditions		
— <i>Functional test</i>	<i>Pass</i>	5.1.4
Operational reliability		
— <i>Functional test</i>	<i>Pass</i>	5.1.4
Durability of operational reliability, temperature resistance		
— <i>Dry heat (operational)</i>	<i>Pass</i>	5.3
— <i>Cold (operational)</i>	<i>Pass</i>	5.4
Durability of operational reliability, vibration resistance		
— <i>Shock (operational)</i>	<i>Pass</i>	5.8
— <i>Impact (operational)</i>	<i>Pass</i>	5.9
— <i>Vibration, sinusoidal (operational)</i>	<i>Pass</i>	5.10
— <i>Vibration, sinusoidal (endurance)</i>	<i>Pass</i>	5.11
Durability of operational reliability, humidity resistance		
— <i>Damp heat, cyclic (operational)</i>	<i>Pass</i>	5.5
— <i>Damp heat, steady state (endurance)</i>	<i>Pass</i>	5.6
Durability of operational reliability, corrosion resistance		
— <i>Sulphur dioxide (SO₂) corrosion (endurance)</i>	<i>Pass</i>	5.7
Durability of operational reliability, electrical stability		
— <i>Performance and variation of supply parameters</i>	<i>Pass</i>	5.2
— <i>Electromagnetic compatibility (EMC), immunity tests</i>	<i>Pass</i>	5.12

<i>Essential Characteristics</i>	<i>Performance</i>	<i>EN 54-25:2008+AC:2010+AC:2012</i>
Performance under fire conditions		
— <i>Radio frequency links</i>	<i>Pass</i>	4.2
— <i>Alarm signal integrity</i>	<i>Pass</i>	4.2.2
— <i>General</i>	<i>Pass</i>	5.2
— <i>Reproducibility test</i>	<i>Pass</i>	8.3.7
Response delay (response time to fire)		
— <i>Test for alarm signal integrity</i>	<i>Pass</i>	8.2.3
— <i>Test for mutual disturbance between systems of the same manufacturer</i>	<i>Pass</i>	8.2.6
Operational reliability		
— <i>Immunity to site attenuation</i>	<i>Pass</i>	4.2.1
— <i>Identification of the RF linked component</i>	<i>Pass</i>	4.2.3
— <i>Receiver performance</i>	<i>Pass</i>	4.2.4
— <i>Immunity to interference</i>	<i>Pass</i>	4.2.5
— <i>Loss of communication</i>	<i>Pass</i>	4.2.6
— <i>Antenna</i>	<i>Pass</i>	4.2.7
— <i>Power supply equipment</i>	<i>Pass</i>	5.3
— <i>Environmental related requirements</i>	<i>Pass</i>	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
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)		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, 13.06.2024

Signed for and on behalf of the manufacturer by:

Saruhan Acar
Vice General Manager

