

№ 226/2023

1. Unique identification code of the product-type:

Model number and Description:

Natron WE-A Addressable fire alarm wireless expander module

Approved Accessories:

n/a

Harmonized Product Type(s):

Short-circuit isolators Input/output device Components using radio links

2. Intended use/es:

Fire detection and fire alarm systems installed in and around buildings

3. Manufacturer

Teletek Electronics JSC 2 Iliyansko shose Str, NPZ Voenna Rampa, 1220 Sofia, Bulgaria

4. Authorized representative:

Teletek Electronics JSC 2 Iliyansko shose Str, NPZ Voenna Rampa, 1220 Sofia, Bulgaria

5. System(s) of AVCP

System 1

6. Harmonized Standard(s)

EN 54-17: 2005,

EN 54-17: 2005/ AC: 2007

EN 54-18: 2005,

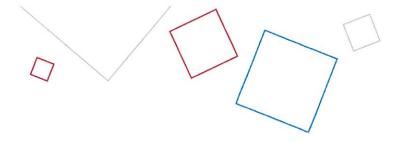
EN 54-18: 2005/ AC: 2007

EN 54-25:2008,

EN 54-25:2008/AC:2012

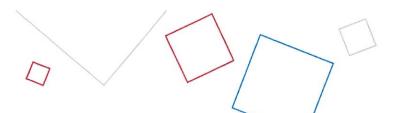
Notified body/ies:

EVPÚ a.s. (Notified Body 1293)



7. Declared performance

Essential characteristics	Clauses in EN 54-17: 2005, EN 54-17: 2005/ AC: 2007	Registers	Performance
Functional parameters under fire conditions: Reproducibility	5.2		Correct functioning of each specimen with the manufacturer's specifications.
Operational reliability: Requirements	4		Verifying that the short-circuit isolator has met the requirements of this clause by visual inspection or engineering assessment.
Long-term stability of operatio temperature resistance:	nal reliability;		
Dry heat (operational)	5.4		Temperature: (+55 ± 2) °C Duration: 16 h The specimen was monitored during the conditioning period to detect any change from the closed coordination.
Cold (operational)	5.5		Temperature: (-10 ± 3) °C Duration: 16 h The specimen was monitored during the conditioning period to detect any change from the closed coordination.
Long-term stability of operatio vibration and shock resistance:	1.51.010		
Shock (operational)	5.9		Shock pulse time: Half sine Pulse duration: 6 ms Peak acceleration: 10 x (100-20M) m/s² (Where M is the specimen's mass in kg) Number of directions: 6 Pulses per direction: 3 No test is applied to specimens with a mass > 4.75 kg The specimen has remained in a closed condition during the conditioning period and the additional 2 min.
Impact (operational)	5.10		Impact energy (1.9 ± 0.1) J Hammer velocity (1.5 ± 0.13) m/s Number of impacts: 1 The specimen has remained in a closed condition during the conditioning period and the additional 2 min.
Vibration, sinusoidal (operational)	5.11		Frequency range: (10 to 150 Hz) Acceleration amplitude: 5 m s² (=0.5 g _n) Number of axes: 3 Sweep rate: 1 octave min ⁻¹ Number of sweep cycles: 1 per axis The specimen has remained in a closed condition during the conditioning period.
Vibration, sinusoidal (endurance)	5.12		Frequency range: (10 to 150 Hz)



Long-term stability of operation	nal reliability;	Acceleration amplitude: 10 m s² (=0.5 g _n) Number of axes: 3 Sweep rate: 20 octave min ⁻¹ Number of sweep cycles: 1 per axis The specimen has remained in a closed condition during the conditioning period.
Damp heat, cyclic (operational)	5.6	Lower temperature: (25±3) °C Upper temperature: (40±2) °C Relative humidity: a) At a lower temperature ≥ 95 % b) At upper temperature (93±3) % Number of cycles: 2
Damp heat, steady state (endurance)	5.7	Temperature: (40±2) °C Relative humidity: (93±3) % Duration: 21 days The specimen are functioning correctly within the manufacturers specifications.
Long-term stability of operational reliability; corrosion resistance: -Sulphur dioxide (SO ₂), corrosion (endurance)	5.8	Temperature: (40±2) °C Relative humidity: (93±3) % Duration: 21 days Immediately after the conditioning the specimen was subjected to a dying period of 16 h at (40±2) °C, ≤ 50 % RH, followed by a recovery period of a least 1 h at the standard laboratory conditions.
Long-term stability of operatio	nal reliability;	
Variation in supply voltage	5.3	At high ambient temperatures appropriate to the anticipated service environment the specimen was functioning correctly.
Electromagnetic Combability (EMC), Immunity tests (operational)	5.13	Detection of any change of state or faulty operation the specimen during the monitoring. Specimen has remained in the closest condition without any faulty operation during conditioning.

Essential characteristics	Clauses in EN 54-18: 2005, EN 54-18: 2005/ AC: 2007	Registers	Performance
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Performance and variation in supply parameters	5.2	Input/output device was functioning/correctly with the manufacturer's specifications.
Performance under fire conditions and Operational reliability:	5.1.4	Activating each function by a suitable means in accordance with the manufacturer's specifications. Appropriate measurements are made to confirm the correct operation of the device.
Durability of operational reliability: resistance:	temperature	
Dry heat (operational)	5.3	Temperature: (+55 ± 2) °C Duration: 16 h No unwanted or unspecified functioning has occurred during the monitoring.
Cold (operational)	5.4	Temperature: (-10 ± 3) °C Duration: 16 h No unwanted or unspecified functioning has occurred during the monitoring.
Long-term stability of operational revibration resistance:	liability; shock and	
Shock (operational)	5.8	Shock pulse time: Half sine Pulse duration: 6 ms Peak acceleration: 10 x (100-20M) m/s² (Where M is the specimen's mass in kg) Number of directions: 6 Pulses per direction: 3 No test is applied to specimens with a mass > 4.75 kg The specimen has remained in a closed condition during the conditioning period and the additional 2 min.
Impact (operational)	5.9	Impact energy (0.5± 0.04) J Number of impacts per point: 3 No unwanted or unspecified functioning has occurred during the conditioning period or the additional 2 min.
Vibration, sinusoidal (operational)	5.10	Frequency range: (10 to 150 Hz) Acceleration amplitude: 5 m s² (=0.5 gn) Number of axes: 3 Sweep rate: 1 octave/ min Number of sweep cycles: 1 per axis

5.11

No unwanted or unspecified function has occurred during the conditioning. Frequency range: (10 to 150 Hz)

Acceleration amplitude: 10 m s² (=0.5

 $g_n)$

Number of axes: 3 Sweep rate: 1 octave/ min

Vibration, sinusoidal (endurance)

		Number of sweep cycles: 1 per axis No unwanted or unspecified function
		has occurred during the conditioning.
Long-term stability of operational	5.7	The specimen was supplied with power
reliability; corrosion resistance:		during the test.
-Sulphur dioxide (SO ₂), corrosion		Temperature: (40±2) °C
(endurance)		Relative humidity: (93±3) %
		Duration: 21 days
		Immediately after the
		conditioning the specimen was
		subjected to a dying period of
		16 h at (40 ± 2) °C, ≤ 50 % RH,
		followed by a recovery period
		of a least 1 h at the standard
		laboratory conditions.
Long-term stability of operational rel	iability: electrical	
stability:		
Performance and variation in supply	5.2	The performance of each function of
parameters		the input/output device is tested
		according to the manufacturer's
		specification, at the upper and lower
		limits of the supply parameter.
Electromagnetic combability (EMC),	5.12	No unwanted or unspecified function
Immunity tests		has occurred during the conditioning.

Essential characteristics	Harmonized technical specification EN 54-25:2008, EN 54-25:2008/AC:2012	Performance
Performance parameters under fire conditions:	4.1, 4.2.2, 5.2, 8.3.7	PASS
Response delay (reaction time to fire):	8.2.3, 8.2.6	PASS
Operational reliability:	4.2.1, 4.2.3 to 4.2.7, 5.3, 5.4	PASS
Documentation and marking	6, 7	PASS
System tests	8.2.2, 8.2.4, 8.2.5, 8.2.7, 8.2.8, 8.2.9, 8.3.1, 8.3.3, 8.3.4, 8.3.5, 8.3.6	PASS
Durability of operational reliability, Temperature resistance:	8.3.9 to 8.3.11	PASS
Durability of operational reliability, Vibration resistance:	8.3.16 to 8.3.19	PASS
Durability of operational reliability, Humidity resistance:	8.3.12 to 8.3.14	PASS

8.3.15	PASS
8.3.20	PASS

*NA - not applicable

resistance:

stability:

8. Online Display Location

This document can be viewed online at https://teletek-electronics.com/

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Durability of operational reliability, Corrosion

Durability of operational reliability, Electrical

2, Iliyansko shose str. NPZ Voenna Rampa 1220 Sofia, Bulgaria 26.09.2023



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