



NOTIFIED BODY N° 2918

CERTIFICATE OF CONSTANCY OF PERFORMANCE

2918-CPR-01.030.2023

In accordance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9.03.2011 (Construction Products Regulation or CPR), this certificate applies to the construction product

Wireless addressable fire alarm optical - smoke detector Natron SD with derivative names SensoIRIS SD, WL FIRE SD

with parameters (levels and classes of indicators, identification and intended use) given in Annexes 1 and 2 to the certificate of a total of 4 pages, which are an integral part of it,

provided by the market under the name of or trademark of
Teletek Electronics JSC

2, Iliyansko Shose Str., NPZ Voenna Rampa, 1220 Sofia, Bulgaria

and manufactured at a production site:

Teletek Electronics JSC

2, Iliyansko Shose Str., NPZ Voenna Rampa, 1220 Sofia, Bulgaria

This certificate certifies that all provisions regarding the assessment and verification of constancy of performance described in Annex ZA of the standards

**EN 54-7: 2000/A1:2002, EN 54-7:2000/A2:2006, EN 54-7:2018
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 26th June 2023 and will remain valid as long as neither the harmonized standard, the construction product, the testing methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.



VALIDITY

Signature:

Prof. Dr. Eng. Veselin Simeonov
Director of the Assessment Department
Digital version of Certificate!

Sofia
26.06.2023

**Fire Certification and
Inspection Ltd.**

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UIC 206130981

1. Technical specifications:

The Natron SD is a wireless addressable fire alarm optical smoke detector designed to work with the Natron series of wireless expander (network gateway) modules. The detector is equipped with a 360° visible LED indication and a built-in buzzer for additional sound signaling when announcing events - fire alarm and finding the installation site. Natron SD is intended for indoor installation.

Communication range with expander (network gateway) module – 1500m.

Radio frequency - 868 MHz. Type of communication - two-way.

Dimensions (with the base) – Ø106x82.5 mm. Weight (with base and batteries) - 227 g

2. Performance characteristics of the wireless addressable fire alarm optical smoke detector detector Natron SD, according to: EN 54-7:2000/A1:2002, EN 54-7:2000/A2:2006, EN 54-7:2018

Essential Characteristics	Clauses in this European standard	Performance
Operational reliability		
- individual alarm indication	4.2.1	PASS
- connection of ancillary devices	4.2.2	NA*
- monitoring of detachable detectors	4.2.3	PASS
- manufacturer's adjustments	4.2.4	PASS
- on site adjustment of response behaviour	4.2.5	PASS
- protection against the ingress of foreign bodies	4.2.6	PASS
- response to slowly developing fires	4.2.7	PASS
- software controlled detector (when provided)	4.2.8	PASS
Nominal activation conditions/Sensitivity		
- repeatability	4.3.1	PASS
- directional dependence	4.3.2	PASS
- reproducibility	4.3.3	PASS
Response delay (response time):		
- air movement	4.4.1	PASS
- dazzling	4.4.2	PASS
Tolerance to supply voltage:		
- variation in supply parameters	4.5	PASS
Performance parameters under fire conditions:		
- fire sensitivity	4.6	PASS

Essential Characteristics	Clauses in this European standard	Performance
Durability of Nominal activation conditions/Sensitivity - Temperature resistance		
- cold (operational)	4.7.1.1	PASS
- dry heat (operational)	4.7.1.2	PASS
Durability of Nominal activation conditions/Sensitivity - Humidity resistance		
- damp heat, steady-state (operational)	4.7.2.1	PASS
- damp heat, steady-state (endurance)	4.7.2.2	PASS
Durability of Nominal activation conditions/Sensitivity - Humidity resistance		
- sulfur dioxide (SO ₂) corrosion (endurance)	4.7.3	PASS
Durability of Nominal activation conditions/Sensitivity - Vibration Resistance		
- shock (operational)	4.7.4.1	PASS
- impact (operational)	4.7.4.2	PASS
- vibration, sinusoidal (operational)	4.7.4.3	PASS
- vibration, sinusoidal (endurance)	4.7.4.4	PASS
Durability of Nominal activation conditions/Sensitivity - Electrical stability		
- EMC, immunity (operational)	4.7.5	PASS

*NA- not applicable

4. Performance characteristics of the wireless addressable fire alarm optical smoke detector detector Natron SD, according to: EN 54-25:2008, EN 54-25:2008/AC:2010, EN 54-25:2008/AC:2012

Essential characteristics	Clauses in this European standard	Performance
Performance parameters under fire conditions:		
- general	4.1	PASS
- alarm signal integrity	4.2.2	PASS
- general	5.2	PASS
- reproducibility test	8.3.7	PASS
Response delay (reaction time to fire):		
- test for alarm signal integrity	8.2.3	PASS
- test for mutual disturbance between systems of the same manufacturer	8.2.6	PASS
Operational reliability:		
- immunity to site attenuation	4.2.1	PASS
- identification of the rf linked component	4.2.3	PASS
- receiver performance	4.2.4	PASS
- immunity to interference	4.2.5	PASS
- loss of communication	4.2.6	PASS
- antenna	4.2.7	PASS
- power supply equipment	5.3	PASS
- environmental related requirements	5.4	PASS
- documentation	6	PASS
- marking	7	PASS
- test for immunity to site attenuation	8.2.2	PASS
- test for identification of rf linked components	8.2.4	PASS
- test for the receiver performance	8.2.5	PASS
- test of compatibility with other band user	8.2.7	PASS
- test for the detection of a loss of communication on a link	8.2.8	PASS
- test of the antenna	8.2.9	PASS
- general	8.3.1	PASS
- test schedule for components tests	8.3.2	PASS

Essential characteristics	Clauses in this European standard	Performance
- verification of the service life of the autonomous power source(s)	8.3.3	PASS
- test for the low power condition fault signal	8.3.4	PASS
- test for the polarity reversal	8.3.5	PASS
- repeatability test	8.3.6	PASS
Durability of operational reliability - Temperature resistance		
- dry heat (operational)	8.3.9	PASS
- dry heat (endurance)	8.3.10	PASS
- cold (operational)	8.3.11	PASS
Durability of operational reliability - Vibration resistance		
- shock (operational)	8.3.16	PASS
- impact (operational)	8.3.17	PASS
- vibration, sinusoidal (operational)	8.3.18	PASS
- vibration, sinusoidal (endurance)	8.3.19	PASS
Durability of operational reliability - Humidity resistance		
- damp heat, cyclic (operational)	8.3.12	NA*
- damp heat, steady state (operational)	8.3.13	PASS
- damp heat, steady state (endurance)	8.3.14	PASS
Durability of operational reliability - Corrosion resistance		
- SO ₂ -corrosion (endurance)	8.3.15	PASS
Durability of operational reliability - Electrical stability		
- electromagnetic Compatibility (EMS), Immunity tests (operational)	8.3.20	PASS

*NA- not applicable

The validity of this certificate can be checked on our website: <https://firecert.eu/bg/c/register>

Signature:

Prof. Dr. Eng. Veselin Simeonov
Director of the Assessment Department

Sofia
26.06.2023