



Nº 208/2023

1. Unique identification code of the product-type: Model number and Description:

Natron SD - Wireless addressable fire alarm optical - smoke detector Approved Accessories:

n/a

Harmonized Product Type(s):

Smoke Detectors 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, 1220 Sofia, Bulgaria

4. Authorized representative:

Teletek Electronics JSC 2 Iliyansko shose Str, 1220 Sofia, Bulgaria

5. System(s) of AVCP

System 1

6. Harmonized Standard(s)

EN 54-7: 2018,

EN 54-7: 2000/A1:2002

EN 54-7: 2000/A2: 2006

EN 54-25:2008

EN 54-25:2008/AC:2010

EN 54-25:2008/AC:2012

EN 54-25:2008

EN 54-25:2008/AC:2010

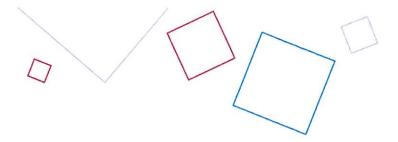
EN 54-25:2008/AC:2012

Notified body/ies:

Fire Certification and Inspection Ltd. (Notified Body 2918)

European assessment document: n/a

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European technical assessment: n/a Technical assessment Body: n/a

Notified body/ies: n/a

7. Declared performance

Essential characteristics	Clauses in EN 54-7: 2018	Regulatory classes	Performance
Operational reliability:			
Individual alarm	4.2.1		The visual indicator(s) are visible from a distance of 6 m
indication			in an ambient light intensity up to 500 lx.
Connection of ancillary devices	4.2.2		Open or short circuit failures of connection to ancillary device did not prevent the correct operation of the detector
Monitoring of	4.2.3		A fault condition is signaled when the detector is
detachable detectors			removed from the mounting base.
Manufacturer's	4.2.4		It is not possible to adjust the detector settings
adjustments			without the use of a special tool to access into
			the detector or use of a code to enabling entry
			into the panel programming software.
On site adjustment of	4.2.5	None	The mode(s) of operation are adjustable from the
response behavior		None	Control and Indicating Equipment by use of a loop
			communication protocol. Access to enable mode
			changes is by software control of the protocol
			communication.
Protection against the	4.2.6		The chamber is designed so that a sphere of
ingress of foreign			diameter (1,3±0,05) mm cannot pass into the
bodies			sensor chamber.
Response to slowly	4.2.7		The provision of "drift compensation" (e.g. to
developing fires			compensate for sensor drift due to the build-up of dirt
			in the detector), does not lead to a significant reduction
			in the detectors sensitivity to slowly developing fires.
Software controlled	4.2.8		The software documentation and the software design
detectors			complies with the requirements of EN 54-7:2018.
Nominal activation condi	tions/		
sensitivity:			
Repeatability	4.3.1		Ratio of response values m_{max} : m_{min} < 1.6
		Threshold	Lower response value, $m_{min} > 0.05 \text{ dB m} -1$
Directional dependence	4.3.2		Ratio of response values m _{max} : m _{min} < 1.6
			Lower response value, $m_{min} > 0.05 \text{ dB/m}$
Reproducibility	4.3.3		Ratio of response values m _{max} : m _{avg} < 1.33
			Ratio of the response values m_{avg} : $m_{min} < 1.5$

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		Lower response value, m _{min} > 0.05 dB/m		
Response delay (respons	e time):			
Air movement	4.4.1	Ratio is > 0.0625 and < 1.60 and the point smoke detector did not emit a fault nor		
		alarm signal during the test with aerosol-free air		
Dazzling	4.4.2	The specimen did not emit neither an alarm nor a fault signal and Ratio of response thresholds m _{max} : m _{min} < 1.6		
Tolerance to supply volta	age:			
Variation in supply parameters	4.5	Ratio of response values m_{max} : m_{min} < 1.6 Lower response value, m_{min} > 0.05 dB/		
Performance parameters conditions:	s under fire			
Fire sensitivity	4.6	Evaluated as meeting the requirements of TF2 toTF5		
Durability of nominal act	tivation			
conditions/Sensitivity:				
Temperature resistance				
Cold (operational)	4.7.1.1	The specimen did not emit neither an alarm nor a fault signal and Ratio of response values m_{max} : m_{min} < 1.6		
Dry heat (operational)	4.7.1.2	The specimen did not emit neither an alarm nor a fault signal and Ratio of response values m_{max} : m_{min} < 1.6		
Humidity resistance				
Damp heat, steady- state (operational)	4.7.2.1	The specimen did not emit neither an alarm nor a fault signal and ratio of response values $m_{max}: m_{min} < 1.6$		
Damp heat, steady-	4.7.2.2	No fault signal, attributable to the endurance		
state (endurance)	7.7.2.2	conditioning was given on reconnection of the		
state (chadrance)		specimen and Ratio of response values m_{max} : m_{min} < 1.6		
Corrosion resistance				
Sulphur dioxide (SO ₂)	4.7.3	No fault signal, attributable to the endurance		
corrosion (endurance)		conditioning was given on reconnection of the		
		specimen and Ratio of response values m_{max} : m_{min} < 1.0		
Vibration resistance				
Shock (operational)	4.7.4.1	No fault signal given from the specimen during the		
		conditioning period or the additional 2 min. and Ratio of response values m_{max} : m_{min} < 1.6		
Impact (operational)	4.7.4.2	No fault signal given from the specimen during the		
impact (operational)		conditioning period or the additional 2 min. and Ratio		
		of response values m_{max} : m_{min} < 1.6		
Vibration, sinusoidal	4.7.4.3	No fault signal given from the specimen during the		
(operational)	00000 10 0000010	conditioning and Ratio of response values m _{max} : m _{min}		
1-1/		1.6		

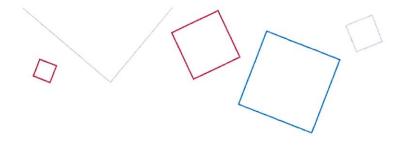
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(operational)

Vibration, sinusoidal 4.7.4.4 No fault signal, attributable to the endurance/ (endurance) conditioning was given on reconnection of the specimen and Ratio of response values m_{max} : m_{min} < 1.6 **Electrical stability EMC** immunity 4.7.5 No alarm or fault signal given during the conditioning (operational) and Ratio of response values m_{max} : m_{min} < 1.6 a) Electrostatic discharge (operational) b) Radiated electromagnetic fields (operational) c) Conducted disturbances(operation al) d) Fast transient bursts (operational) e) Slow high energy voltage surge

Essential characteristics	Harmonized technical specification EN 54-25:2008, EN 54-25:2008/AC:2010, 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
Durability of operational reliability, Corrosion resistance:	8.3.15	PASS
Durability of operational reliability, Electrical stability:	8.3.20	PASS

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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:

2, Iliyansko shose str. 1220 Sofia, Bulgaria 23.06.2023

Yuliy Lliev Quality Manager