



## **CERTIFICATE OF CONSTANCY OF PERFORMANCE**

Issued by DBI Certification, notified body No. 2531.

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Security-center detector type RM-1100-2 Heat detector

Security-center detector type RM-1100-2LED

Security-center detector type RM-1100-4-12

Security-center detector type RM-1100-4-24

Heat detector with 12V relay

Heat detector with 24V relay

The product fulfils the essential characteristic:

### See Annex 1

Intended use: Applications related to automatic fire alarm systems

Placed on the market under the name or trade mark of:

ABUS Security-Center GmbH & Co.KG Linker Kreuthweg 5 86444 Affing Germany

and produced in the manufacturing plant:

CPA10001

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

EN 54-5:2017/A1:2018 : Fire detection and fire alarm systems - Part 5: Heat detectors - point heat

detectors

under system 1 for the performance set out in this certificate are applied and that the performance of the construction product is assessed to remain constant.

The attached annexes form part of this certificate.

Date of issue: 2021-11-09.

This certificate will remain valid as long as neither the harmonized standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

(This certificate supersedes the previous version of this certificate issued 2016-01-06)

This certificate was first issued 2014-06-11.

Thomas Anthony Wilson Responsible for evaluation Merete Poulsen
Responsible for certification decision

The certificate shall be reproduced in extenso

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Annex 1

### **EXTENT**

### **Model Reference:**

RM-1100-2 Heat detector, class A1 and A2

RM-1100-2LED Heat detector, class A1 and A2, with output for LED

RM-1100-4-12 Heat detector, class A1 and A2, with relay for 12V

RM-1100-4-24 Heat detector, class A1 and A2, with relay for 24V

### Bases:

P/N 772912 2 wire base for detectors

P/N 774912 4 wire base for detectors

P/N 882912 2 wire base for detectors (high version)

### **Description:**

Class A1 and A2 Adressable Heat Detector intend for use in fire detection and fire alarm systems intalled in and around buldings.

### **Heat Response Catergory:**

#### Table 1

Detector Category (Heat Class):	Typical Application Temperature	Maximum Application Temperature °C	Minimum Static Response Temperature	Maximum Static Response Temperature °C
A1	25	50	°C 54	65
A2	25	50	54	70

### **Table 2- Response time limits**

air tempera	Rate of rise of air temperature K min-1  Lowe		Cat A1		
K IIIIII-1		Min	S	Min	S
	1	29	0	40	20
	3	7	13	13	40
	5	4	9	8	20
	10	1	0	4	20
	20		30	2	20
	30		20	1	40

Rate of rise of air temperature				
K min-1	Lower limit		Uper	limit
	Min	S	Min	S
1	29	0	46	0
3	7	13	16	0
5	4	9	10	0
10	2	0	5	30
20	1	30	3	13
30		40	2	25



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Essential characteristics	Clauses in EN 54-5:2017/ A1:2018	Regulatory classes	Performance
Operational reliability:			
Position of heat sensitive element	4.2.1		The heat sensitive element(s) or at least part of it, except elements with auxiliary functions (e.g.characteristic correctors), are a distance ≥15mm from the mounting surface of the point heat detector.
Individual alarm indication	4.2.2		Category A1, A2 The heat detector is provided with an integral red visual indicator and can remain identified until the alarm is reset. The visual indicator is visible from a distance of 6 m directly below the point heat detector, in an ambient light intensity up to 500 lx.
Connection of ancillary devices	4.2.3		Open or short circuit failures of connection to ancillary device do not prevent the correct operation of the detector
Monitoring of detachable point heat detectors	4.2.4		A fault condition is signaled when the detector is removed from the mounting base.
Manufacturer's adjustments	4.2.5		It is not possible to change the maufacture's settings expep by special means (e.g. a special code or tool, or by breaking or remove a seal).
Onsite adjustments of response behavior	4.2.6		N/A, No provision for site-adjustment
Software controlled detectors (when provided)	4.2.7		The software documentation and the software design complies supplied by the manufacturer with the requirements of this standard.
Nominal activation conditions/Sensitivity:		A1,A2	
Directional dependence	4.3.1	AI,AZ	The response time of the point dectetor do not unduly depend on the direction of airflow around the point heat detector.
Static response temperature	4.3.2		The response temperatures of the point heat detectors lie between the minimum and maximum static response temperatures, according to the category of the point heat detector in Table 1 above.
Response times from typical application temperature	4.3.3		The response times of the point heat detector lie between the lower and upper response time limits for the appropriate point heat detector category in Table 2 above.
Response times from 25 °C	4.3.4		The response time at 3 K min <sup>-1</sup> exceeds 7 min 13 s and the response time at 20 K min <sup>-1</sup> exceeds 1 min 0 s.
Response times from high ambient temperature	4.3.5		No alarm or fault signal was given at high ambient temperatures appropriate to the anticipated service temepratures.  A1  3 K min <sup>-1</sup> , Lower limit, 1 min 20 s and upper limit 13 m 40 s. 20 K min <sup>-1</sup> , Lower limit, 12 s and upper limit 2 m 20 s.



3 K min<sup>-1</sup>, Lower limit, 1 min 20 s and upper limit 16 m. 20 K min<sup>-1</sup>, Lower limit, 12 s and upper limit 3 m 13 s.





Dan va du cibilitu	426	The version as af the veriot heat detectors lie het vers
Reproducibility	4.3.6	The response times of the point heat detectors lie between
		the lower ad upper response time limits specified in Table 2
		above.
Response delay (response		
time):		
Additional test for suffix S point	4.4.1	N/A
heat detectors		
Additional test for suffix R point	4.4.2	N/A
heat detectors	4.4.2	IV/A
near detectors		
Talaman sa ta aumuhu valta sa		_
Tolerance to supply voltage:	4.5	<del>-</del>
Variation in supply parameters	4.5	The point heat detector does not unduly depent on
		variation in the supply parameters and lie between the
		lower and upper response time limits specified in Table 2
		above.
Durability of nominal activation		
conditions/Sensitivity:		
temperature resistance		
Cold (operational)	4.6.1.1	No alarm or fault signal was given during the transition to
		the conditioning temperature or during the period at the
		condition temperature
		Response time at 3 K min <sup>-1</sup> was not less than 7 min 13 s and
		did not exceed 2 min 40 s compared with the time obtained
		in 4.3.6.
		A1: 20 K min <sup>-1</sup> was not less than 30 s and did not exceed 30
		s compared with the time obtained in 4.3.6
		A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exceed
		30 s compared with the time obtained in 4.3.6
Dry heat (endurance)	4.6.1.2	N/A
Humidity resistance	4.0.1.2	14/11
Damp heat, cyclic (operational)	4.6.2.1	No alarm or fault signal was given during the conditioning
Damp heat, cyclic (operational)	4.0.2.1	No alarm or fault signal was given during the conditioning.
		(25.13) %6
		Lower temperature: (25±3) °C
		Upper temperature: (40±2) °C
		Delatin buriling
		Relative humidity:
		At lower temperature :≥ 95 %
		At upper temperature : (93 ±3) %
		Response time at 3 K min <sup>-1</sup> was not less than 7 min 13 s and
		did not exceed 2 min 40 s compared with the time obtained
		in 4.3.6.
		A1: 20 K min <sup>-1</sup> was not less than 30 s and did not exceed 30
		s compared with the time obtained in 4.3.6
		A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exceed
		30 s compared with the time obtained in 4.3.6



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Damp heat, steady-state (endurance)  4.6.2.2  No fault signal was given on reconnection attributable the endurance conditioning.  Conditioning Temperature: 40 ± 2 °C Relative Humidity: 93 ± 3 % Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1 did not exceed 2 min 40 s compared with the time o in 4.3.6.  A1: 20 K min <sup>-1</sup> was not less than 30 s and did not ex s compared with the time obtained in 4.3.6  A2: 20 K min <sup>-1</sup> was not less than 1 min and did not ex s compared with the time obtained in 4.3.6  No fault signal was given on reconnection attributable the endurance conditioning.  Conditioning Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ± 5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1 did not exceed 2 min 40 s compared with the time o	L3 s and obtained ceed 30
Conditioning Temperature: $40 \pm 2^{\circ}$ C Relative Humidity: $93 \pm 3^{\circ}$ % Duration: $21$ days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1 did not exceed 2 min 40 s compared with the time o in 4.3.6.  A1: $20 \text{ K min}^{-1}$ was not less than 30 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6 A2: $20 \text{ K min}^{-1}$ was not less than 1 min and did not exceed 20 min 40 s compared with the time obtained in 4.3.6 No fault signal was given on reconnection attributabe the endurance conditioning.  Conditioning Temperature: $25 \pm 2^{\circ}$ C Relative Humidity: $93 \pm 3^{\circ}$ % SO2 concentration: $25 \pm 5^{\circ}$ ppm (by volume) Duration: $21 \text{ days}$ Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	obtained ceed 30
Temperature: 40 ± 2 °C Relative Humidity: 93 ± 3 % Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1 did not exceed 2 min 40 s compared with the time o in 4.3.6.  A1: 20 K min <sup>-1</sup> was not less than 30 s and did not exceed s compared with the time obtained in 4.3.6  A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exceed s compared with the time obtained in 4.3.6  Corrosion resistance  Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  No fault signal was given on reconnection attributabe the endurance conditioning.  Conditioning Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ± 5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	obtained ceed 30
Temperature: 40 ± 2 °C Relative Humidity: 93 ± 3 % Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1 did not exceed 2 min 40 s compared with the time o in 4.3.6.  A1: 20 K min <sup>-1</sup> was not less than 30 s and did not exceed s compared with the time obtained in 4.3.6  A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exceed s compared with the time obtained in 4.3.6  A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exceed so compared with the time obtained in 4.3.6  No fault signal was given on reconnection attributabe the endurance conditioning.  Conditioning Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ± 5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	obtained ceed 30
Relative Humidity: 93 ±3 % Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1 did not exceed 2 min 40 s compared with the time o in 4.3.6.  A1: 20 K min <sup>-1</sup> was not less than 30 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6  A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exceed 2 min 40 s compared with the time obtained in 4.3.6  A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exceed 2 min 40 s compared with the time obtained in 4.3.6  Corrosion resistance  Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  No fault signal was given on reconnection attributable the endurance conditioning.  Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	obtained ceed 30
Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1 did not exceed 2 min 40 s compared with the time or in 4.3.6.  A1: 20 K min <sup>-1</sup> was not less than 30 s and did not exceed 3 s compared with the time obtained in 4.3.6 A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6  Corrosion resistance  Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  No fault signal was given on reconnection attributabe the endurance conditioning.  Conditioning  Temperature: 25 ±2 °C  Relative Humidity: 93 ±3 %  SO2 concentration: 25 ±5 ppm (by volume)  Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	obtained ceed 30
Response time at 3 K min <sup>-1</sup> was not less than 7 min 1 did not exceed 2 min 40 s compared with the time of in 4.3.6.  A1: 20 K min <sup>-1</sup> was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6 A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6 No fault signal was given on reconnection attributabe the endurance conditioning.  Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	obtained ceed 30
did not exceed 2 min 40 s compared with the time of in 4.3.6.  A1: 20 K min <sup>-1</sup> was not less than 30 s and did not excess compared with the time obtained in 4.3.6  A2: 20 K min <sup>-1</sup> was not less than 1 min and did not excess compared with the time obtained in 4.3.6  A2: 20 K min <sup>-1</sup> was not less than 1 min and did not excess compared with the time obtained in 4.3.6  No fault signal was given on reconnection attributabe the endurance conditioning.  Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	obtained ceed 30
did not exceed 2 min 40 s compared with the time of in 4.3.6.  A1: 20 K min <sup>-1</sup> was not less than 30 s and did not excess compared with the time obtained in 4.3.6  A2: 20 K min <sup>-1</sup> was not less than 1 min and did not excess compared with the time obtained in 4.3.6  A2: 20 K min <sup>-1</sup> was not less than 1 min and did not excess compared with the time obtained in 4.3.6  No fault signal was given on reconnection attributabe the endurance conditioning.  Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	obtained ceed 30
in 4.3.6.  A1: 20 K min <sup>-1</sup> was not less than 30 s and did not exist s compared with the time obtained in 4.3.6  A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exist s compared with the time obtained in 4.3.6  Corrosion resistance  Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  No fault signal was given on reconnection attributabe the endurance conditioning.  Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	ceed 30
A1: 20 K min <sup>-1</sup> was not less than 30 s and did not exist sompared with the time obtained in 4.3.6  A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exist sompared with the time obtained in 4.3.6  Corrosion resistance  Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  A.6.3  No fault signal was given on reconnection attributabee the endurance conditioning.  Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	
s compared with the time obtained in 4.3.6 A2: 20 K min <sup>-1</sup> was not less than 1 min and did not e 30 s compared with the time obtained in 4.3.6  Corrosion resistance  Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  No fault signal was given on reconnection attributable the endurance conditioning.  Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	
s compared with the time obtained in 4.3.6 A2: 20 K min <sup>-1</sup> was not less than 1 min and did not e 30 s compared with the time obtained in 4.3.6  Corrosion resistance  Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  No fault signal was given on reconnection attributable the endurance conditioning.  Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	
A2: 20 K min <sup>-1</sup> was not less than 1 min and did not e 30 s compared with the time obtained in 4.3.6  Corrosion resistance  Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  No fault signal was given on reconnection attributable the endurance conditioning.  Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	,
A2: 20 K min <sup>-1</sup> was not less than 1 min and did not e 30 s compared with the time obtained in 4.3.6  Corrosion resistance  Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  No fault signal was given on reconnection attributable the endurance conditioning.  Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	
Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  A.6.3  Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days  B.0.3 s compared with the time obtained in 4.3.6  No fault signal was given on reconnection attributable the endurance conditioning.	xceed
Corrosion resistance  Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  A.6.3  Conditioning  Temperature: 25 ±2 °C  Relative Humidity: 93 ±3 %  SO2 concentration: 25 ±5 ppm (by volume)  Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	
Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  A.6.3  No fault signal was given on reconnection attributable the endurance conditioning.  Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	
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Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	
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SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	
Duration : 21 days  Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	
Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	
did not exceed 2 min 40 s compared with the time o	
	btained
in 4.3.6.	
A1: 20 K min <sup>-1</sup> was not less than 30 s and did not exc	ceed 30
s compared with the time obtained in 4.3.6	
A2: 20 K min <sup>-1</sup> was not less than 1 min and did not e	exceed
30 s compared with the time obtained in 4.3.6	
Vibration resistance	
Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditi	oning
period or an additional 2 min.	·····8
period of all additional 2 mini	
For specimen with a mass ≤ 4,75 kg:	
Tor specimen with a mass = 4,75 kg.	
Shock pulse type: Half sine	
Pulse duration: 6 ms	
Peak acceleration: 10X (100-20M) ms-2 (M is specim	on mass
	ien mass
in Kg)	
Number of directions: 6	
Pulses per direction: 3	
	,
Response time at 3 K min <sup>-1</sup> was not less than 7 min 1	
did not exceed 2 min 40 s compared with the time o	btained
in 4.3.6.	
A1: 20 K min <sup>-1</sup> was not less than 30 s and did not exc	
s compared with the time obtained in 4.3.6	ceed 30
A2: 20 K min <sup>-1</sup> was not less than 1 min and did not e	ceed 30
30 s compared with the time obtained in 4.3.6	
· · · · · · · · · · · · · · · · · · ·	







Impact (operational)	4.6.4.2	No alarm or fault signal was given during the conditioning
impact (operational)	4.0.4.2	No alarm or fault signal was given during the conditioning period or an additional 2 min.
		period of all additional 2 min.
		Conditioning:
		Impact energy: 1,9 ±0,1 J
		Hammer velocity: 1,5 ±0,13 ms <sup>-1</sup>
		Number of impacts: 1
		Number of impacts. 1
		Decrease time at 2 K min-1 was not loss than 7 min 12 s and
		Response time at 3 K min <sup>-1</sup> was not less than 7 min 13 s and
		did not exceed 2 min 40 s compared with the time obtained
		in 4.3.6.
		A1: 20 K min <sup>-1</sup> was not less than 30 s and did not exceed 30
		s compared with the time obtained in 4.3.6
		A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exceed
		30 s compared with the time obtained in 4.3.6
Vibration, sinusoidal	4.6.4.3	No fault signal was given during the conditioning
(operational)		Conditioning:
		Frequency range: 10 to 150 Hz
		Acceleration amplitude: 5 ms <sup>-2</sup> (≈0,5 g <sub>n</sub> )
		Number of axes : 3
		Sweep rate: 1 octave min <sup>-1</sup>
		Number of sweep cycles: 1 per axis
		Response time at 3 K min <sup>-1</sup> was not less than 7 min 13 s and
		did not exceed 2 min 40 s compared with the time obtained
		in 4.3.6.
		A1: 20 K min <sup>-1</sup> was not less than 30 s and did not exceed 30
		s compared with the time obtained in 4.3.6
		A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exceed
		30 s compared with the time obtained in 4.3.6
Vibration, sinusoidal	4.6.4.4	No fault signal was given on reconnection attributable to
(endurance)		the endurance conditioning.
		Conditioning:
		Frequency range: 10 to 150 Hz
		Acceleration amplitude: 10 ms <sup>-2</sup> (≈1,0 g <sub>n</sub> )
		Number of axes : 3
		Sweep rate: 1 octave min <sup>-1</sup>
		Number of sweep cycles: 20 per axis
		Response time at 3 K min <sup>-1</sup> was not less than 7 min 13 s and
		did not exceed 2 min 40 s compared with the time obtained
		in 4.3.6.
		A1: 20 K min <sup>-1</sup> was not less than 30 s and did not exceed 30
		s compared with the time obtained in 4.3.6
		A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exceed
		30 s compared with the time obtained in 4.3.6.







4.6.5	Compliance in EN 50130-4:2011 and No fault signal was given during the conditioning.
	Response time at 3 K min <sup>-1</sup> was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
	A1: 20 K min <sup>-1</sup> was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 A2: 20 K min <sup>-1</sup> was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6
	4.6.5

### Annex 2

### **TEST DOCUMENTATION**

Accredited Laboratory	Report no.	Date
DELTA	DANAK-199724 Project no.: E810164-1	2004-06-04
DELTA	Statement concerning alternative base for detectors	2004-09-03
Applus Laboratories	21/36403112	2021-09-16

### Annex 3

## **TECHNICAL BASIS**

File Number		Tit	itle	
Documentation summarization	NB323 series, 10	-0018-r01		

