

ARGUS SECURITY Argus Security S.r.I. Via del Canneto, 14 Via del Canneto, 14 34015 - Muggia (TS) - Italy info@argussecurity it info@argussecurity.it

CPR – Construction Products Regulation EU n.305/2011 **Declaration of Performance – DoP**

Declaration in accordance with Commission Delegated Regulation EU n.574/2014 which amends Annex III of Regulation n.305/2011 CPR – Regolamento Prodotti da Costruzione EU n.305/2011 Dichiarazione di Prestazione - DoP

Dichiarazione ai sensi del Regolamento Delegato UE n.574/2014 della Commissione che modifica l'Allegato III del Regolamento n.305/2011

N°: AT5910CPR

1. Unique identification code of the product-type:

Codice di identificazione unico del prodotto-tipo:

Product type: Heat Detectors; Smoke Detector with scattered light, transmitted light or ionization

Model Number and Description: A1000 - ALTAIR Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator

A2000 - ALTAIR Addressable Multi-criteria Detector with Short Circuit Isolator A3500 - ALTAIR Analogue Addressable Class P Heat Detector with Short Circuit Isolator

2. Intended use/es:

Usi previsti:

Fire Safety

Point detectors for use in fire detection and fire alarm systems installed in and around buildings Fire detection and fire alarm systems installed in and around buildings

Sicurezza Antincendio

Rivelatori puntiformi per l'uso in sistemi di rivelamento e allarme antincendio installati all'interno ed intorno agli edifici Sistemi di rivelamento ed allarme antincendio installati all'interno ed intorno agli edifici

3. Manufacturer:

Fabbricante: ARGUS SECURITY Srl Via del Canneto 14 Valle delle Noghere - 34015 Muggia - Trieste - Italy info@argussecurity.it www.argussecurity.it

4. Authorised representative:

Mandatario: N/A

5. System/s of AVCP:

Sistemi di VVCP: System 1

6. Harmonised standard(s):

Norme Armonizzate: EN 54-5:2017 + A1:2018 (A2000 - A3500) EN 54-7:2017 (A1000 - A2000) EN 54-17:2005 (A1000 - A2000 - A3500)

7. Notified Body/ies:

Organismi Notificati:

Bre Global Assurance (Ireland) Ltd, No. 2831

Product code:	A1000	CoP Reference:	2831-CPR-F0625
	A2000	CoP Reference:	2831-CPR-F0626
	A3500	CoP Reference:	2831-CPR-F0627

8. Declared performance/s:

Prestazioni Dichiarate:

ESSENTIAL CHARACTERISTICS	CLAUSE APPLICABLE	PERFORMANCE	REGULATORY CLASSES	HARMONISED STANDARD
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 A1R 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 manufacture's settings expept 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		
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:				EN 54-5:2017 + A1:2018
Directional dependence	4.3.1	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°	4.3.4	The response time at 3 K min ⁻¹ exceeds 7 min 13 s and the response time at 20 K min ⁻¹ exceeds 1 min 0 s.		

Response times from high ambient temperature	4.3.5	temperatures ap service temepra A1R 3 K min ⁻¹ , Lowe 13 m 40 s.	t signal was given at high ambient propriate to the anticipated tures. er limit, 1 min 20 s and upper limit rer limit, 12 s and upper limit 2 m		
Reproducibility	4.3.6		mes of the point heat detectors lie er ad upper response time limits le 2 above.		
Response delay (response					
time): Additional test for suffix S point	4.4.1				
heat detectors		N/A			
Additional test for suffix R point heat detectors	4.4.2	response require above, for high i an initial temper	nt heat detector maintains the ements of its category, in table 2 rates of rise of temperature from ature below the typical application blicable to the category marked on		
		Point heat detector category	Initial conditioning temperature °C		
		A1R	5 ±2		
Tolerance to supply voltage:					
Variation in supply parameters	4.5	on variation in th	letector does not unduly depent ne supply parameters and lie rer and upper response time limits le 2 above.		
Durability of nominal activation conditions/Sensitivity:					
temperature resistance					
Cold (operational)	4.6.1.1	transition to the during the period	t signal was given during the conditioning temperature or d at the condition temperature was not less than 30 s and did		
		not exceed 30 s in 4.3.6	compared with the time obtained		
Dry heat (operational)	4.6.1.2		as given on reconnection e endurance conditioning		EN 54-5:2017 + A1:2018
			was not less than 30 s and did compared with the time obtained	A1R	
Humidity resistance					
Damp heat, cyclic (operational)	4.6.2.1	No alarm or faul conditioning.	t signal was given during the		
		Lower temperate (40±2) °C	ure: (25±3) °C Upper temperature:		
		Relative humidit At lower temper At upper temper	-		
			was not less than 30 s and did compared with the time obtained		

Damp heat, steady-state (endurance)	4.6.2.2	No fault signal was given on reconnection attributable to the endurance conditioning.	
		Conditioning	
		Temperature: 40 ±2 °C	
		Relative Humidity: 93 ±3 %	
		Duration:21 days	
		A1R: 20 K min-1 was not less than 30 s and did	
		not exceed 30 s compared with the time obtained	
		in 4.3.6 <u>BS</u> : 20 K min-1 was not less than 1 min and did	
Corrosion resistance		<u>BO</u> . 2014 min 1 was notices than 1 min and did	
Sulphur dioxide (SO ₂)	4.6.3	No fault signal was given on reconnection	
corrosion (endurance)		attributable to the endurance conditioning.	
		Conditioning	
		Temperature: 25 ±2 °C	
		Relative Humidity: 93 ±3 %	
		SO ₂ concentration: 25 ±5 ppm (by volume) Duration :21 days	
		A1R: 20 K min ⁻¹ was not less than 30 s and did	
		not 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	
(conditioning period or an additional 2 min.	
		For 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	
		specimen mass in Kg) Number of directions: 6	
		Pulses per direction: 3	
		A1R: 20 K min-1 was not less than 30 s and did	
		not exceed 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 period or an additional 2 min.	
		Conditioning:	
		Impact energy: 1,9 ±0,1 J	
		Hammer velocity: 1,5 ±0,13 ms ⁻¹ Number of impacts: 1	EN 54-5:2017 +
			A1:2018
		A1R: 20 K min ⁻¹ was not less than 30 s 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 ⁻² (≈0,5 gn) Number of axes : 3	
		Sweep rate: 1 octave min ⁻¹	
		Number of sweep cycles: 1 per axis	
		A1R: 20 K min ⁻¹ was not less than 30 s and did	
		not exceed 30 s compared with the time obtained	
		in 4.3.6	

Vibration, sinusoidal (endurance) Electrical stability EMC immunity (operational)	4.6.4.4	attributable to the Conditioning: Frequency rang Acceleration arm Number of axes Sweep rate: 1 o Number of sweet A1R: 20 K min- not exceed 30 s in 4.3.6	plitude: 10 ms-2(≈1,0 gn) : 3 ctave min-1 ep cycles: 20 per axis 1 was not less than 30 s and did compared with the time obtained N 50130-4:2011 and No fault		
		<u>A1R</u> : 20 K min ⁻¹	signal was given during the conditioning. <u>A1R</u> : 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6		
ESSENTIAL CHARACTERISTIC	S	CLAUSE APPLICABLE	PERFORMANCE	REGULATORY CLASSES	HARMONISED STANDARD
Operational reliability: Individual alarm indication		4.2.1	The visual indicator(s) are visible from a distance of 6 m in an ambient light intensity up to 500lx.		
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 detachable detectors		4.2.3	A fault condition is signaled when the detector is removed from the mounting base.		
Manufacturer's adjustments		4.2.4	It is not possible to adjust the detector settings 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 response behavior		4.2.5	The mode(s) of operation are adjustable from the Control and Indicating Equipment by use of a loop communication protocol. Access to enable mode changes is by software control of the protocol communication.	None	EN 54-7:2018
Protection against the ingress of foreign bodies		4.2.6	The chamber is designed so that a sphere of diameter $(1,3\pm0,05)$ mm cannot pass into the sensor chamber.		
Response to slowly developing fires		4.2.7	The provision of "drift compensation" (e.g. to 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 detectors (when provided)		4.2.8	The software documentation and the software design complies with the requirements of EN 54-7:2018.		

Nominal activation conditions/sensitivity:				
Repeatability	4.3.1	Ratio of response values $m_{max}:m_{min} \le 1.6$ Lower response value, $m_{max}:m_{min} > 0.05 \text{ dB m}^{-1}$		
Directional dependence	4.3.2	Ratio of response values $m_{max}:m_{min} \le 1.6$ Lower response value, $m_{max}:m_{min} > 0.05 \text{ dB m}^{-1}$		
Reproducibility	4.3.3	Ratio of response values m_{max} :m ≤ 1.33 Ratio of the response values $m_{min} \leq 1.5$ Lower response value, $m_{min} \geq$ 0.05 dB m ⁻¹		
Response delay (response 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} : $m_{min} \le 1.6$		
Tolerance to supply voltage:				
Variation in supply parameters	4.5	Ratio of response values m _{max} :m _{min} ≤ 1.6 Lower response value, m _{min} ≥ 0.05 dB m ⁻¹		
Performance parameters under fire conditions:				
Fire sensitivity	4.6	Evaluated as meeting the requirements of TF2 toTF5		
Durability of nominal activation 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		EN 54-7:2018
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			Throphold	
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	Threshold	
Damp heat, steady-state (endurance)	4.7.2.2	No fault signal, attributable to the endurance conditioning was given on reconnection of the specimen and Ratio of response values m _{max} :m _{min} ≤ 1.6		
Corrosion resistance				
Sulphur dioxide (SO2) corrosion (endurance)	4.7.3	No fault signal, attributable to the endurance conditioning was given on reconnection of the specimen and Ratio of response values m_{max} : $m_{min} \le 1.6$		

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} : $m_{min} \le 1.6$			
Impact (operational)	4.7.4.2	No fault signal given from the specimen during the conditioning period or the additional 2 min. and Ratio of response values m_{max} : $m_{min} \le 1.6$			
Vibration, sinusoidal (operational)	4.7.4.3	No fault signal (specimen durin and Ratio of res m _{max} :m _{min} ≤ 1.6	g the conditioning sponse values		
Vibration, sinusoidal (endurance)	4.7.4.4	No fault signal, attributable to the endurance conditioning was given on reconnection of the specimen and Ratio of response values m _{max} :m _{min} ≤1.6			
Electrical stability EMC immunity (operational) a) Electrostatic discharge (operational) b) Radiated electromagnetic fields (operational) c) Conducted disturbances (operational) d) Fast transient bursts (operational) e) Slow high energy voltage surge (operational)	4.7.5	No alarm or fault signal given during the conditioning and Ratio of response values m _{max} :m _{min} ≤ 1.6			EN 54-7:2018
ESSENTIAL CHARACTERISTICS	CLAUSE APPLICABLE		PERFORMANCE		HARMONISED STANDARD
Performance parameters under fire conditions	5.2 ⁽¹⁾	5.2 ⁽¹⁾		PASS	
Operational reliability	4	4		PASS	
Durability of operational reliability, temperature resistance	5.4, 5.5		PASS		
Durability of operational reliability, vibration resistance	5.9 to 5.12		PASS		EN 54-17:2005
Durability of operational reliability, humidity resistance	5.6, 5.7		PASS		
Durability of operational reliability, corrosion resistance	5.8		PASS		
Durability of operational reliability, electrical stability	5.3, 5.13		PASS		
(1) This is assuming that the effect of the fire is t	to cause a short	circuit in the trans	smission path that	is protected by th	ese devices

The performance of the products identified in point 1 in conformity with the declared performance in the point 8. This declaration is issued under the sole responsibility of the manufacturer identified in point 3.

La prestazione dei prodotti individuati al punto 1 è conforme alla prestazione dichiarata al punto 8. Tale dichiarazione è rilasciata sotto l'esclusiva responsabilità del fabbricante individuato al punto 3.

This document in available on website: www.argussecurity.it (section download for each product) Questo documento è disponibile sul sito: www.argussecurity.it (nella sezione "download" di ogni prodotto)

Signed for and on behalf of the manufacturer by:

Firmato a nome e per conto del Fabbricante da:

Technical Director Mauro Ceppa

Trieste, Italy

01/09/2022