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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°: TU0310CPR

1. Unique identification code of the product-type:

Codice di identificazione unico del prodotto-tipo:

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

Model Number and Description: **TW-DT-01** - TAURUS - Bi-Directional Wireless Addressable Class P Heat Detector.

TW-DT-01/BL - TAURUS - Bi-Directional Wireless Addressable Class P Heat Detector (Black version). Operating Frequency Band: 868 MHz

2. Intended use/es:

Usi previsti:

Fire Safety

Fire detection and fire alarm systems installed in and around buildings

Sicurezza Antincendio

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

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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

EN 54-25:2008 + AC:2012

7. Notified Body/ies:

Organismi Notificati:

IMQ S.p.a., No. 0051

Product code: TW-DT-01
TW-DT-01/BL

CoP Reference:
CoP Reference:

0051-CPR-1732
0051-CPR-1732

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 $\geq 15\text{mm}$ from the mounting surface of the point heat detector.		EN 54-5:2017 + A1:2018	
Individual alarm indication	4.2.2	Category A1 & B 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 except 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	Settings complying with requirements of standard shall only be accessible by the use of code or special tool or by removing the detector from its base (mounting)			
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:					
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	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.			
application temperature	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	<p>No alarm or fault signal was given at high ambient temperatures appropriate to the anticipated service temperatures.</p> <p>A1</p> <p>3 K min⁻¹ , Lower limit, 1 min 20 s and upper limit 13 m 40 s. 20 K min⁻¹ , Lower limit, 12 s and upper limit 2 m 20 s.</p> <p>All others</p> <p>3 K min⁻¹ , Lower limit, 1 min 20 s and upper limit 16 m. 20 K min⁻¹ , Lower limit, 12 s and upper limit 3 m 13 s.</p>		
Reproducibility	4.3.6	The response times of the point heat detectors lie between the lower and upper response time limits specified in Table 2 above.		
Response delay (response time):				
Additional test for suffix S point heat detectors	4.4.1	Suffix S point heat detector did not exceed the lower limits of response time during the transfer period or during the 10 min exposure below.		
		Point heat detector category	Conditioning Temperature °C	Airflow Temperature °C
		BS	20 ±2	65 ±2
		Rate of rise of air temperature K min ⁻¹	Lower Limit response time	
			Min	S
		3	9	40
		5	5	48
		10	2	54
		20	1	27
		30		58
Additional test for suffix R point heat detectors	4.4.2	Suffix R, the point heat detector maintains the response requirements of its category, in table 2 above, for high rates of rise of temperature from an initial temperature below the typical application temperature applicable to the category marked on it.		
		Point heat detector category	Initial conditioning temperature °C	
		A1R	5 ±2	
Tolerance to supply voltage:				
Variation in supply parameters	4.5	The point heat detector does not unduly depend 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				

EN 54-5:2017 +
A1:2018

Cold (operational)	4.6.1.1	<p>No alarm or fault signal was given during the transition to the conditioning temperature or during the period at the condition temperature</p> <p><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</p> <p><u>BS</u>: 20 K min⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6</p>
Dry heat (operational)	4.6.1.2	<p>No fault signal was given on reconnection attributable to the endurance conditioning</p> <p><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</p> <p><u>BS</u>: 20 K min⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6</p>
Humidity resistance		
Damp heat, cyclic (operational)	4.6.2.1	<p>No alarm or fault signal was given during the conditioning.</p> <p>Lower temperature: (25±3) °C Upper temperature: (40±2) °C</p> <p>Relative humidity: At lower temperature :≥ 95 % At upper temperature : (93 ±3) %</p> <p><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</p> <p><u>BS</u>: 20 K min⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6</p>
Damp heat, steady-state (endurance)	4.6.2.2	<p>No fault signal was given on reconnection attributable to the endurance conditioning.</p> <p>Conditioning Temperature: 40 ±2 °C Relative Humidity: 93 ±3 % Duration:21 days</p> <p><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</p> <p><u>BS</u>: 20 K min⁻¹ was not less than 1 min and did</p>
Corrosion resistance		
Sulphur dioxide (SO ₂) corrosion (endurance)	4.6.3	<p>No fault signal was given on reconnection attributable to the endurance conditioning.</p> <p>Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO₂ concentration: 25 ±5 ppm (by volume) Duration :21 days</p> <p><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</p> <p><u>BS</u>: 20 K min⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6</p>
Vibration resistance		

A1R & BS

EN 54-5:2017 +
A1:2018

Shock (operational)	4.6.4.1	<p>No alarm or fault signal was given during the conditioning period or an additional 2 min.</p> <p>For specimen with a mass $\leq 4,75$ kg :</p> <p>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</p> <p><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 <u>BS</u>: 20 K min⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6</p>
Impact (operational)	4.6.4.2	<p>No alarm or fault signal was given during the conditioning period or an additional 2 min.</p> <p>Conditioning: Impact energy: 1,9 \pm0,1 J Hammer velocity: 1,5 \pm0,13 ms⁻¹ Number of impacts: 1</p> <p><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 <u>BS</u>: 20 K min⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6</p>
Vibration, sinusoidal (operational)	4.6.4.3	<p>No fault signal was given during the conditioning</p> <p>Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms⁻²(\approx0,5 gn) Number of axes : 3 Sweep rate: 1 octave min⁻¹ Number of sweep cycles: 1 per axis</p> <p><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 <u>BS</u>: 20 K min⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6</p>
Vibration, sinusoidal (endurance)	4.6.4.4	<p>No fault signal was given on reconnection attributable to the endurance conditioning.</p> <p>Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 10 ms⁻²(\approx1,0 gn) Number of axes: 3 Sweep rate: 1 octave min⁻¹ Number of sweep cycles: 20 per axis</p> <p><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 <u>All others</u>: 20 K min⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6</p>

EN 54-5:2017 +
A1:2018

Electrical stability EMC immunity (operational)	4.6.5	Compliance in EN 50130-4:2011 and No fault signal was given during the conditioning. 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 BS: 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6	EN 54-5:2017 + A1:2018
ESSENTIAL CHARACTERISTICS	CLAUSE APPLICABLE	PERFORMANCE	HARMONISED STANDARD
Performance parameters under fire conditions	4.1, 4.2.2, 5.2, 8.3.7	PASS	EN 54-25:2008
Response delay (response 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, 6, 7, 8.2.2, 8.2.4, 8.2.5, 8.2.7, 8.2.8 ^(a) , 8.2.9, 8.3.1, 8.3.2, 8.3.3, 8.3.4, 8.3.5, 8.3.6	PASS	
Durability of operational reliability, temperature resistance	8.3.9 ^(b) , 8.3.10 ^(b) , 8.3.11	PASS	
Durability of operational reliability, vibration resistance	8.3.16 ^(b) , 8.3.17 to 8.3.19	PASS	
Durability of operational reliability, humidity resistance	8.3.13 ^(c) , 8.3.14	PASS	
Durability of operational reliability, corrosion resistance	8.3.15 ^(b)	PASS	
Durability of operational reliability, electrical stability	8.3.20	PASS	
The products covered by this standard are assumed to enter the alarm condition, in an event of fire, before the fire becomes so large as to affect their functioning. There is therefore no requirement to function when exposed to direct attack from fire. ^(a) Only applicable to components required to indicate loss of communication or to transmit this information to the CIE. ^(b) Not applicable for CIE ^(c) Only applicable for CIE and smoke detectors			

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 is 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

30/06/2022