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

UK Declaration of Performance - DoP

Declaration in accordance to (UK) Construction Products Regulation No 305/2011

UK Dichiarazione di Prestazione - DoP

Dichiarazione in conformità al regolamento sui prodotti da costruzione (Regno Unito) n. 305/2011

N°: TU0310UK

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. 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
info@argussecurity.it
www.argussecurity.it

4. Authorised representative:

Mandatario:

Halma UK DS LTS
Misbourne Court, Rectory Way, Amersham
Bucks HP7 0DE, UK

5. System/s of AVCP:

Sistemi di VVCP:

System 1

6. Designated standard(s):

Norme Indicate:

EN 54-5:2017 + A1:2018
EN 54-25:2008 + AC:2012

7. UK Approved Body/ies

Organismi Approvati dalla UK

DBI Certification-UK Ltd., No. 8504

Product code: **TW-DT-01** CoP Reference: **8504-UKCA-CPR-UKCSP10082**

8. Declared performance/s:

Prestazioni Dichiarate:

ESSENTIAL CHARACTERISTICS	CLAUSE APPLICABLE	PERFORMANCE	REGULATORY CLASSES	DESIGNATED 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 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		EN 54-5:2017 + A1:2018
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	Settings complying with requirements af 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	No alarm or fault signal was given at high ambient temperatures appropriate to the anticipated service temepratures. A1 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. All others 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.
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 heat detectors	4.4.1	Suffix S point heat detector did not exceed the lower limits of response time during the transer period or during the 10 min exposure below.

Point heat detector category	Contitioning 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 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 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		
Dry heat (operational)	4.6.1.2	No fault signal was given on reconnection attributable to the endurance 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	A1R & BS	
Humidity resistance				
Damp heat, cyclic (operational)	4.6.2.1	No alarm or fault signal was given during the conditioning. Lower temperature: (25±3) °C Upper temperature: (40±2) °C Relative humidity: At lower temperature :≥ 95 % At upper temperature : (93 ±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 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 54-7:2018
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 BS: 20 K min-1 was not less than 1 min and did		
Corrosion resistance				
Sulphur dioxide (SO_2) corrosion (endurance)	4.6.3	No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 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 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		
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 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		
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 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		
Vibration, sinusoidal (operational)	4.6.4.3	No fault signal was given during the conditioning 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 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		
Vibration, sinusoidal (endurance)	4.6.4.4	No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 10 ms-2(≈1,0 gn) Number of axes: 3 Sweep rate: 1 octave min-1 Number of sweep cycles: 20 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 All others: 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		

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		

ESSENTIAL CHARACTERISTICS	CLAUSE APPLICABLE	PERFORMANCE	DESIGNATED 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 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 29/03/2022