

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°: TU0210UK

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-DM-01 - TAURUS - Bi-Directional Wireless Addressable Multicriteria Detector With Variable Sensitivity. 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 54-7:2017 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-UKCSP10081

DoP TU0210UK - TW-DM-01 (574-2014) BOZZA

8. Declared performance/s:

Prestazioni Dichiarate:

Prestazioni Dichiarate				DEGIGNIZEEE
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 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.		711.2010
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	No alarm or fault signal was given at high ambient temperatures appropriate to the anticipated service temepratures. A1R 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.		
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	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	t signal was given during the conditioning temperature or d at the condition temperature		
			was not less than 30 s and did compared with the time obtained		EN 54-5:2017 +
Dry heat (operational)	4.6.1.2		as given on reconnection e endurance conditioning		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	5		
			was not less than 30 s and did compared with the time obtained		
Damp heat, steady-state (endurance)	4.6.2.2		as given on reconnection e endurance conditioning.		
		Conditioning Temperature: 40 Relative Humidi Duration:21 day	ty: 93 ±3 %		
		not exceed 30 s in 4.3.6	I was not less than 30 s and did compared with the time obtained was not less than 1 min and did		
Corrosion resistance					

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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 % SO ₂ concentration: 25 ±5 ppm (by volume) Duration :21 days		
		<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 $4.3.6$		
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		
		<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		
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		EN 54-5:2017 A1:2018
		Hammer velocity: 1,5 ±0,13 ms ⁻¹ Number of impacts: 1		
		<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 $4.3.6$		
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		
		<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		
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		
		<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		
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Electrical stability EMC 4.6.5 immunity (operational)	signal was giver <u>A1R</u> : 20 K min ⁻¹	EN 50130-4:2011 and No fault in during the conditioning. was not less than 30 s and did compared with the time obtained		EN 54-5:2017 + A1:2018
ESSENTIAL CHARACTERISTICS	CLAUSE APPLICABLE	PERFORMANCE	REGULATORY CLASSES	
Operational reliability:	AFFLICABLE		CLASSES	1
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	
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.		EN 54-7:2018
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, $m_{max}:m_{min} > 0.05$ 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):	İ			

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 $m_{max}:m_{min} \le 1.6$ Lower response value, $m_{min} \ge$ 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		
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			Threshold	
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	meshold	EN 54-7:2018
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} : $m_{min} \le 1.6$		
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 given from the specimen during the conditioning and Ratio of response values m _{max} :m _{min} ≤ 1.6		
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Vibration, sinusoidal (endurance)		4.7.4.4	endurance conc was given on re specimen and F	It signal, attributable to the ance conditioning iven on reconnection of the nen and Ratio of nse 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	CLA	USE APPLICA	ABLE	PERFOR	MANCE	DESIGNATED STANDARD
Performance parameters under fire conditions Response delay (response time to fire)	4.1, 4.2.2, 5.2, 8.3.7 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		PA	SS	EN 54-25:2008	
Durability of operational reliability, humidity resistance	8.3.13 ^(c) , 8.3.14		PASS			
Durability of operational reliability, corrosion resistance	8.3.15 ^(b)		tional			
Durability of operational reliability, electrical stability	8.3.20			PA		
The products covered by this sta to affect their functioning. There ^(a) Only applicable to component ^(b) Not applicable for CIE ^(c) Only applicable for CIE and s	is therefore no re ts required to indi	equirement to f	unction when expo	osed to direct attac	ck from fire.	-

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

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