



Construction Products Regulation: EU (No) 305/2011

This Declaration has been drawn-up in accordance with Commission Delegated Regulation (EU) No. 574/2014 which amends Annex III of Regulation (EU) No 305/2011.

DECLARATION OF PERFORMANCE

No. E0077

1. Unique identification code of the product-type:

Model number and Description:

55000-400 XP95 Analogue Addressable Class A2S Heat Detector 55000-420 XP95 Analogue Addressable Class A2S Heat Detector 55000-420LIM XP95 Analogue Addressable Class A2S Heat Detector

Approved Accessories:

45681-210 – XP95 Mounting Base 45681-209 – XP95/Discovery Standard Deep Mounting Base

Harmonised Product Type(s):

Heat Detectors - Point Detectors

2. Intended use/es:

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

3. Manufacturer:

Apollo Fire Detectors Ltd, 36 Brookside Road, Havant, Hampshire, PO9 1JR, United Kingdom

4. Authorised representative:

Apollo Gesellschaft für Meldetechnologie mbH Am Anger 31 33332 Gütersloh Deutschland

5. System(s) of AVCP

System 1

6 Harmonised Standard(s)

EN 54-5:2017 + A1:2018

Notified Body/ies:

DBI Certification A/S (Notified Body 2531)

A HALMA COMPANY







Apollo Fire Detectors Limited

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7. Declared performance

Table 1				
Detector Category (Heat Class):	Typical Application Temperature	Maximum Application Temperature °C	Minimum Static Response Temperature °C	Maximum Static Response Temperature °C
A2S	25	50	54	70

Table 2- Response time limits

Rate of rise of air temperature	Cat A2S					
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		

Performance

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	A2S	Category A2S 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	4.2.5		It is not nossi	blo to shange	tha m	afa.atra	's sattings	
			is not possible to change the maufacture's settings					
adjustments			expept by special means (e.g. a special code or tool, or b breaking or remove a seal).			or by		
Onsite adjustments of response behavior	4.2.6		N/A					
Software controlled	127	-	The software	documentatio	n and	l the cofts	varo docia	n
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		•	time of the po e direction of				ıly
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.					e	
Barrage (*	4.2.2		The second	Atomic Cit			-t!	
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 ⁻¹ exceeds 7 min 13 s and the response time at 20 K min ⁻¹ exceeds 1 min 0 s.				id the	
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. A2S 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		limits of respo	heat detector onse time duri min exposure	ng the	e transer		
			Point heat Conditioning Airflow detector Temperature °C Temperature °C category					
			A2S	5 ±2		50 ±2		
			Rate of rise of air temperature K min-1 Lower Limit response time		response			
					S	$-\parallel$		
			3		9	•	40	-
			5		5		48	



			10	2	54
			10		J4
			20	1	27
			30		58
				1	
Additional test for suffix R	4.4.2		N/A		
point heat detectors			•		
Tolerance to supply					
voltage:					
Variation in supply	4.5		The point heat detector do		
parameters			variation in the supply para lower and upper response		
			above.	ope	
Durability of naminal					
Durability of nominal activation					
conditions/Sensitivity:					
temperature resistance Cold (operational)	4.6.1.1		No alarm or fault signal wa	c given during +	he transition to
Colu (operational)	4.0.1.1		No alarm or fault signal wa the conditioning temperate condition temperature		
			Response time at 3 K min ⁻¹ and did not exceed 2 min 4		
			obtained in 4.3.6.		
			A2S: 20 K min ⁻¹ was not les	cthan 1 min a	nd did not
			exceed 30 s compared with		
Dm.hoot (or during)	4.6.4.3		No fault stand to the		معدداد معدداد م
Dry heat (endurance)	4.6.1.2		No fault signal was given o the endurance conditioning		attributable to
			Response time at 3 K min ⁻¹	was not less th	an 7 min 13 s
			and did not exceed 2 min 4		
			obtained in 4.3.6.		
			A2S: 20 K min ⁻¹ was not les	s than 1 min ar	nd did not
			exceed 30 s compared with	n the time obtai	ned in 4.3.6
Humidity resistance					
Damp heat, cyclic	4.6.2.1		No alarm or fault signal wa	s given during t	he
(operational)			conditioning.		
			Lower temperature: (25±3)) °C	
			Upper temperature: (40±2		
					,



		Relative humidity:
		At lower temperature :≥ 95 % At upper temperature : (93 ±3) %
		Response time at 3 K min ⁻¹ 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.
		A2S: 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
Damp heat, steady-state	4.6.2.2	No fault signal was given on reconnection attributable to
(endurance)	4.0.2.2	the endurance conditioning.
		Conditioning
		Temperature: 40 ±2 °C
		Relative Humidity: 93 ±3 %
		Duration: 21 days
		Response time at 3 K min ⁻¹ 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.
		A2S: 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
Corrosion resistance		
Sulphur dioxide (SO ₂) corrosion (endurance)	4.6.3	No fault signal was given on reconnection attributable to
(endurance)		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 ⁻¹ 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.
		A2S: 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
		Response time at 3 K min ⁻¹ 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.
		A2S: 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.
		Canditioning
		Conditioning:
		Impact energy: 1,9 ±0,1 J Hammer velocity: 1,5 ±0,13 ms ⁻¹
		Number of impacts: 1
		Number of impacts. 1
		Response time at 3 K min ⁻¹ 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.
		A2S: 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	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 g _n)
		Number of axes : 3
		Sweep rate: 1 octave min ⁻¹
		Number of sweep cycles: 1 per axis
		Response time at 3 K min ⁻¹ 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.
		A2S: 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
		exceed 50's compared with the time obtained in 4.5.0
Vibration, sinusoidal	4.6.4.4	No fault signal was given on reconnection attributable to
(endurance)	1.0. 1. 1	the endurance conditioning.
(
		Conditioning:
		Frequency range: 10 to 150 Hz
		Acceleration amplitude: 10 ms ⁻² (≈1,0 g _n)
		Number of axes : 3
		Sweep rate: 1 octave min ⁻¹
		Number of sweep cycles: 20 per axis
		Response time at 3 K min ⁻¹ 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.
		A2S: 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
		exceed 50 s compared with the time obtained in 4.3.6
Electrical stability EMC	4.6.5	Compliance in EN 50130-4:2011 and No fault signal was
immunity (operational)	7.0.5	given during the conditioning.
		Biten daring the conditioning.
		Response time at 3 K min ⁻¹ 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.
		A2S: 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
		A2S: 20 K min ⁻¹ was not less than 1 min and did



8. Online Display Location

This document can be viewed online at www.apollo-fire.co.uk

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above

Signed for and on behalf of Apollo Fire Detectors Limited by:

Mr. David Robbins Technical Director Havant – 17.01.2023

(v6)

