

# UK DECLARATION OF PERFORMANCE

No. 0832-UKCA-CPR-F1811

Unique identification code of the product-type:

**FA100**

Intended use/s:

**Single (Expandable to Two) Pipe Aspirating Smoke Detector with Short Circuit Isolator for fire detection and fire alarm systems installed in buildings**

Manufacturer:

**INIM ELECTRONICS S.R.L.**  
**VIA DEI LAVORATORI 10 - FRAZIONE CENTOBUCHI**  
**63076 MONTEPRANDONE (AP) - ITALY**  
**tel.: +39 0735 705007, fax. +39 0735 704912**  
**web: [www.inim.it](http://www.inim.it), e-mail: [info@inim.it](mailto:info@inim.it)**

System/s of AVCP:

**System 1**

Designated standard/s:

**EN 54-20:2006 + AC:2008**  
**EN 54-17:2005 + AC:2007**

Approved Body/ies:

**BRE Global Limited, No. 0832**

Declared performance/s:

Essential Characteristics	Performance	Designated technical specification	Clause §	Note
<i>Nominal activation conditions/sensitivity, response delay (response time) and performance under fire conditions</i>				
<i>Response to slowly developing fires</i>	PASS	EN 54-20:2006 + AC:2008	5.6	(a)
<i>Repeatability</i>	PASS		6.2	(a)
<i>Reproducibility</i>	PASS	EN 54-20:2006 + AC:2008	6.3	(a) (c)
	PASS	EN 54-17:2005 + AC:2007	5.2	(b)
<i>Fire sensitivity</i>	PASS	EN 54-20:2006 + AC:2008	6.15	(a) (c)
<b>Operational reliability</b>				
<i>Individual visual alarm indication</i>	PASS	EN 54-20:2006 + AC:2008	5.2	
<i>Connection of ancillary devices</i>	PASS		5.3	
<i>Manufacture's adjustments</i>	PASS		5.4	(c)
<i>On site adjustment of response behaviour</i>	PASS		5.5	(c)
<i>Mechanical strength of the pipework</i>	PASS		5.7	
<i>Hardware components and additional sensing elements in the sampling device</i>	PASS		5.8	
<i>Airflow monitoring</i>	PASS		5.9	
<i>Power supply</i>	PASS		5.10	
<i>Data</i>	PASS		5.11	(c)
<i>Additional requirements for software controlled detectors</i>	PASS		5.12	
<i>Requirements</i>	PASS	EN 54-17:2005 + AC:2007	4	
<b>Tolerance to supply voltage</b>				
<i>Variation in supply parameters</i>	PASS	EN 54-20:2006 + AC:2008	6.4	
<b>Durability of operational reliability:</b>				
<b>Temperature resistance</b>				
<i>Dry heat (operational)</i>	PASS	EN 54-20:2006 + AC:2008	6.5	
	PASS	EN 54-17:2005 + AC:2007	5.4	
<i>Cold (operational)</i>	PASS	EN 54-20:2006 + AC:2008	6.6	
	PASS	EN 54-17:2005 + AC:2007	5.5	
<b>Humidity resistance</b>				
<i>Damp heat, steady-state (operational)</i>	PASS	EN 54-20:2006 + AC:2008	6.7	
<i>Damp heat, cyclic (operational)</i>	PASS	EN 54-17:2005 + AC:2007	5.6	

Damp heat, steady-state (endurance)	PASS	EN 54-20:2006 + AC:2008	6.8
	PASS	EN 54-17:2005 + AC:2007	5.7
<b>Corrosion resistance</b>			
Sulfur dioxide (SO <sub>2</sub> ) corrosion (endurance)	PASS	EN 54-20:2006 + AC:2008	6.9
	PASS	EN 54-17:2005 + AC:2007	5.8
<b>Vibration resistance</b>			
Shock (operational)	PASS	EN 54-20:2006 + AC:2008	6.10
	PASS	EN 54-17:2005 + AC:2007	5.9
Impact (operational)	PASS	EN 54-20:2006 + AC:2008	6.11
	PASS	EN 54-17:2005 + AC:2007	5.10
Vibration, sinusoidal (operational)	PASS	EN 54-20:2006 + AC:2008	6.12
	PASS	EN 54-17:2005 + AC:2007	5.11
Vibration, sinusoidal (endurance)	PASS	EN 54-20:2006 + AC:2008	6.13
	PASS	EN 54-17:2005 + AC:2007	5.12
<b>Electrical stability</b>			
Variation in supply voltage	PASS	EN 54-17:2005 + AC:2007	5.3
Electromagnetic compatibility (EMC) immunity tests (operational)	PASS	EN 54-20:2006 + AC:2008	6.14
	PASS	EN 54-17:2005 + AC:2007	5.13

a) 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.

b) This is assuming that the effect of the fire is to cause short circuit in the transmission path that is protected by these devices.

c) The FA100 detector è certified for the following classes and sensitivities:

Class A: 0.00235 - 0.025 dB/m;

Class B: 0.00235 - 0.060 dB/m;

Class C: 0.00235 - 0.200 dB/m.

The class and any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using the FA/STUDIO software.

**The product has been tested with the following ancillary components:**

FAD100	- Detector module;
FAD100FILTER	- Metal mesh with gasket;
504F075ABS	- Dust filter (Medium F0.75 filter with RL5 cartridge ABS);
WT025	- Condensate trap ABS;
2510025	- 3-way ball valve PVC/EPDM;
17250019050	- Flexible transparent spiral pipe p-PVC with carbon steel wire (External Ø: 25mm);
AAD12025CRS	- Male/Female fitting (for the dust filter) ABS;
TUBOABS0250M	- Pipe;
SASO100250RS	- Coupling sleeve;
SATE400250RS	- T-piece;
SABE300250RS	- 90° bend;
SAEY500250RS	- 45° Elbow;
SACA700250RS	- Pipe and cap;
SAUN800250RS	- Openable joint sleeve;
STS25REDK	- Hose clip;
SGLUEN0250	- Sealing glue;
SGLUEN0500	- Sealing glue;
MPE1008025M-R	- Red flexible pipe for sampling capillaries;
LABEL23X10	- Sampling hole identification labels with written "ASPIRATING POINT";
CAPKIT2510SR	- Kit for the creation of a sampling capillary.

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 as it has effect in the United Kingdom in respect of Great Britain, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Baldovino Ruggieri  
(Managing Director)

At Monteprandone, on 19/07/2024