EU Declaration of Performance

Declaration of Performance No: CE-5000

In accordance with Construction Products Regulation EU No 305/2011

1	**Product Type**	MxPro 5 **MX-5000** Series Fire Detection and Fire Alarm Panel Axis EN **Axis-5000** Series Fire Detection and Fire Alarm Panel SmokeGo **SC-5000** Series Fire Detection and Fire Alarm Panel
2	**Model/Product Code (s):**	**All MX-5000 Series CIEs include:** One or more Base Card(s) with control circuitry for up to eight loop driver cards, inputs/outputs and an integrated 3 A, 4 A or 5 A power supply. **MX-5100 Base Card 1 loop** (MX-5101 variants) **MX-5200 Base Card 1 to 2 loop** (MX-5201, MX-5202 variants) **MX-5400 Base Card 1 to 4 loop** (MX-5401, MX-5402, MX-5403, MX-5404 variants) **MX-5800 Base Card 2 to 8 loop** (MX-5802*, MX-5803*, MX-5804*, MX-5805*, MX-5806*, MX-5807*, MX-5808* variants). **All Axis-5000 Series ClEs include:** One or more Base Card(s) with control circuitry for up to eight loop driver cards, inputs/outputs and an integrated 3 A, 4 A or 5 A power supply. **Axis-5100 Base Card 1 loop** (Axis-5101 variants) **Axis-5200 Base Card 1 to 2 loop** (Axis-5201, Axis-5202 variants) **Axis-5400 Base Card 1 to 4 loop** (Axis-5401, Axis-5402, Axis-5403, Axis-5404 variants) **Axis-5800 Base Card 2 to 8 loop** (Axis-5802*, Axis-5803*, Axis-5804*, Axis-5805*, Axis-5806*, Axis-5807*, Axis-5808* variants). **All SC-5000 Series CIEs include:** One or more Base Card(s) with control circuitry for up to eight loop driver cards, inputs/outputs and an integrated 3 A, 4 A or 5 A power supply. **SC-5100 Base Card 1 loop** (SC-5101 variant**s)** **SC-5200 Base Card 1 to 2 loop**(SC-5201, SC-5202 variants) **SC-5400 Base Card 1 to 4 loop**(SC-5401, SC-5402, SC-5403, SC-5404 variants) **SC-5800 Base Card 2 to 8 loop**(SC-5802*, SC-5803*, SC-5804*, SC-5805*, SC-5806*, SC-5807*, SC-5808* variants). Available configurations **Mx-5a0bcd* or Axis-5a0bed or SC5a0bcd*** a = Maximum number of loops **(1,2,4,8)** b = Loops fitted **(1,2, 3, 4, 5, 6, 7, 8)** c = Protocol **(Blank/None -** Apollo, Hochiki, Argus Vega**) (A -** Apollo Core**) (V -**Argus Vega**) (N -** Nittan**)** d = Enclosure Size **(Blank/None** - default**) (S -** Small**, M -** Medium**, L -** Large**, D** - Deep**, E** - Extended**, R -** Rack**)** * = Network **(Blank/None -** Standard Network**) (/FT -** Optional Fault Tolerant Network**)**

3	**Intended Use:**	Fire Safety – Control and indicating equipment and power supply equipment for fire detection and fire alarm systems for buildings.
4	**Name and Address of Manufacturer:**	Advanced Electronics Ltd, The Bridges, Balliol Business Park, Newcastle-Upon-Tyne, NE12 8EW, UK
5	**Name and Address of Authorised Representative:**	Halma Europe DS BV, J. Keplerweg 14, 2408AC, Alphen aan, Den Rijn, Netherlands
6	**System of Assessment and Verification of Constancy of Performance:**	System 1
7	**Name and Identification of notified body**	FM Approvals Europe Limited 2809 performed initial type testing and initial inspection of the manufacturing plant and factory production control, and performs continuous surveillance of the factory production control under system 1 and has issued a certificate of conformity 2809-CPR-E0011 to the below standards;
	Harmonised Standards	EN54-2:1997 +A1:2006, EN54-4:1997 +A1:2002 +A2:2006
	Date of compliance and continuing approval	20th May 2025
	Factory Production Control System	Level 1 - Factory Production Control.
	Certificate of Consistency of Performance	2809-CPR-E0011
8	**European Technical Assessment**	Not Applicable

9	**Declared Performance**	EN54-2:1997 +A1:2006, EN54-4:1997 +A1:2002 +A2:2006

Essential Characteristics	**Performance**	**Harmonised Technical Specification**
Performance under fire conditions	Pass	EN54-2:1997 +A1:2006, Clauses 4, 5, 7
Response delay (response time to fire)	Pass	EN54-2:1997 +A1:2006, Clauses 7.1, 7.7, 7.11, 7.12
Operational Reliability		
General requirements	Pass	EN54-2:1997 +A1:2006, Clause 4
General requirements for indications	Pass	EN54-2:1997 +A1:2006, Clause 5
The quiescent condition	Pass	EN54-2:1997 +A1:2006, Clause 6
The fire alarm condition	Pass	EN54-2:1997 +A1:2006, Clauses 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7
Output to fire alarm devices	Pass	EN54-2:1997 +A1:2006, Clause 7.8
Control of fire alarm routing equipment	Pass	EN54-2:1997 +A1:2006, Clause 7.9
Outputs to fire protection equipment	Pass	EN54-2:1997 +A1:2006, Clause 7.10
Delays to outputs	Pass	EN54-2:1997 +A1:2006, Clause 7.11
Dependencies on more than one alarm signal	Pass	EN54-2:1997 +A1:2006, Clause 7.12
Alarm Counter	Pass	EN54-2:1997 +A1:2006, Clause 7.13
The fault warning condition	Pass	EN54-2:1997 +A1:2006, Clauses 8.1, 8.2, 8.3, 8.5, 8.6, 8.7, 8.8
Total loss of power supply	NPD	EN54-2:1997 +A1:2006, Clause 8.4
Output to fault warning routing equipment	Pass	EN54-2:1997 +A1:2006, Clause 8.9
Disablement of addressable points	Pass	EN54-2:1997 +A1:2006, Clause 9.5
Test condition	Pass	EN54-2:1997 +A1:2006, Clause 10
Standardised input / output interface	Pass	EN54-2:1997 +A1:2006, Clause 11
Design requirements	Pass	EN54-2:1997 +A1:2006, Clause12
Additional design requirements for software controlled control and indicating equipment	Pass	EN54-2:1997 +A1:2006, Clause 13
Marking	Pass	EN54-2:1997 +A1:2006, Clause 14
Operational reliability	Pass	EN54-4:1997 +A1:2002+A2:2006, Clauses 4, 5, 6, 7, 8

Performance of power supply	Pass	EN54-4:1997 +A1:2002+A2:2006, Clauses 4, 5, 6
Durability of operational reliability, Temperature resistance	Pass	EN54-2:1997 +A1:2006, Clause 15.4 EN54-4:1997 +A1:2002+A2:2006, Clause 9.5
Durability of operational reliability, Vibration resistance	Pass	EN54-2:1997 +A1:2006, Clauses 15.6, 15.7, 15.15 EN54-4:1997 +A1:2002+A2:2006, Clauses 9.7, 9.8, 9.15
Durability of operational reliability, Electrical stability	Pass	EN54-2:1997 +A1:2006, Clauses 15.8 to 15.13 EN54-4:1997 +A1:2002+A2:2006, Clauses 9.9 to 9.13
Durability of operational reliability, Humidity resistance	Pass	EN54-2:1997 +A1:2006, Clauses 15.5, 15.14 EN54-4:1997 +A1:2002+A2:2006, Clauses 9.6, 9.14

10	**Authority**	The performance of the product(s) identified in points 1 and 2 is (are) in conformity with the declared performance detailed in point 9. This declaration of performance is issued under the sole responsibility of the Authorised Representative identified in point 5.

Signed for and on behalf of the manufacturer by:

S Bolton (Approvals Manager)

Date Issued: 01st July 2025