

## CERTIFICATE OF CONSTANCY OF PERFORMANCE

**2809 - CPR – E0028**

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

**Elan 5000 Series**

Scope of Certificate: Elan 5000 series Control and Indicating Equipment & Integrated Power Supply for fire detection and fire alarm systems for buildings

placed on the market under the name or trade mark of

**Haes Technologies Ltd**

Unit 3 Horton Industrial Park  
West Drayton  
Middlesex, UB7 8JD, United Kingdom

and produced in the manufacturing plant

**Advanced Electronics Ltd**

The Bridges, Balliol Business Park,  
Longbenton, North Tyneside NE12 8EW, United Kingdom

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s):

**EN 54-2:1997 + AC:1999 + A1:2006 — Fire detection and fire alarm systems – Part 2: Control and Indicating Equipment**

**EN 54-4:1997 + AC:1999 + A1:2002 + A2:2006 - Fire detection and fire alarm systems - Part 4: Power supply equipment**

under system 1 for the performances set out in this certificate (see approval report 3057699 dated 26 November, 2018, PR452927 dated August, 2019 and PR465769 dated 23 September 2024 for detail) are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

**constancy of performance of the construction products**

This certificate was first issued on 17th January 2023 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

  
Richard Zammitt  
Dublin, Ireland  
2024.3.0

Issue 2, Dublin, dated 18 December 2024

Richard Zammitt, Certification Manager  
On behalf of FM Approvals Europe Limited  
(3057699, PR452927, RR224051, RR228306, PR465769 & RR244138)

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F CPR 028 (July/2024)

This certificate remains the property of FM Approvals and has been issued in accordance with FM Approvals CPR Certification Scheme.



**APPENDIX TO CERTIFICATE OF CONSTANCY OF PERFORMANCE**

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***Full Product Description***

Haes Elan 5000 Series control and indicating equipment have several common features used with varied fire detection devices.

**All Elan 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.

- HS-5100 Base card 1 loop (HS-5101 variants)**
- HS-5200 Base card 1 to 2 loop (HS-5201, HS-5202 variants)**
- HS-5400 Base card 1 to 4 loop (HS-5401, HS-5402, HS-5403, HS-5404 variants)**
- HS-5800 Base card 2 to 8 loop (HS-5802\*, HS-5803\*, HS-5804\*, HS-5805\*, HS-5806\*, HS-5807\*, HS5808\* variants)**

Available configurations **HS5aObcd\***

- 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) (**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)

**CIE Loop Driver Cards**

- MXP-502** Apollo, Hochiki Protocols
- MXP-567** Nittan Protocol
- MXP-568** Apollo, Hochiki Protocols  
*(MXP-568 may be used in lieu of MXP-502)*

**CIE Routing / Protection Card** *(option with requirements EN54-2, 7.9 -7.10)*

- MXP-532** Fire routing protection interface

## Compatible Peripherals for all Elan 5000 CIE panel ranges

HS-5010	HS-5010/FT	HS-5020	HS-5020/FT	MXP-501	MXP-502
MXP-503	MXP-505	MXP-506	MXP-507	MXP-509	MXP-510
MXP-510/FT	MXP-510-BX	MXP-510-BX/FT	MXP-512	HSP-513-XXX	MXP-514
MXP-522	MXP-523	MXP-528	MXP-532	MXP-536	MXP-537
MXP-538	MXP-539	MXP-540-XXX	MXP-544	MXP-545	MXP-545/FT
MXP-547	MXP-547-BX	MXP-554	MXP-554/FT	MXP-554-BX-FT	MXP-554-BX
MXP-567	MXP-568	MXP-049	MXP-549	MXP-050-001	MXP-050-002
MXP-550	MXP-550/D	MXP-051	MXP-051/D	MXP-551	

### Remote Terminal Network Peripherals

<b>HS-5010*</b>	Remote display terminal, reduced indications
<b>HS-5020*</b>	Remote control terminal, reduced indications and control
<b>MXP-510**†</b>	BMS Interface, RS232 connection to Building Management PC
<b>MXP-545*</b>	PENN Peripheral Expansion Network Node
<b>MXP-554**†</b>	LAN Gateway TCP/IP connection to internet/intranet for status and email alerts and remote diagnosis/control

*(may be mounted in Haes enclosures along with Elan-5000 display and/or, LED indicators and/or other common input/output option modules. LED indicators may be connected by MXP-522/MXP-523 adaptors. Typically used for graphical indication panels)*

\* = Network (/FT optional fault-tolerant network)

† = Boxed (BX in enclosure)

### Optional Modules

<b>MXP-501</b>	Battery Temperature Sensor
<b>MXP-502</b>	Loop Driver Card - Apollo, Hochiki, Argus Vega
<b>MXP-503</b>	Network Card – Standard
<b>MXP-505</b>	Sounder Active End of Line
<b>MXP-506</b>	Routing Termination Card
<b>MXP-507</b>	2-Way Relay Card
<b>MXP-509</b>	Network Card - Fault-tolerant
<b>MXP-510**†</b>	BMS Graphics Interface
<b>MXP-512</b>	Printer Assembly
<b>HSP-513-XXX</b>	LED Indicator Modules
<b>MXP-514</b>	AC Filter Card
<b>MXP-522</b>	LED Adaptor
<b>MXP-523</b>	LED Interface Module
<b>MXP-528</b>	Modem interface, for remote diagnostics
<b>MXP-532</b>	Routing / Protection Interface
<b>MXP-536</b>	P-BUS 8-way Conventional Zone Card
<b>MXP-537</b>	P-BUS 10-way Switch Input Card
<b>MXP-538</b>	P-BUS 16-Way Switch (Form Factor) Module 16 Switches, 3 Integrated, Programmable LED's per Switch (Red, Yellow, Green)

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<b>MXP-539</b>	P-BUS MIMIC Driver Card (16 input + 48 output) 16 Switch inputs & 48 LED Driver Outputs. Supports up to 5 MXP-052 10 Relay Output Modules
<b>MXP-540-XXX</b>	LED Indicator (32 Red, 32 Yellow or 16 Red 16 Yellow)
<b>MXP-544</b>	Peripheral 8-Way Relay Card
<b>MXP-545*</b>	PENN
<b>MXP-547†</b>	ESPA Pager Interface
<b>MXP-567</b>	Loop Driver Card - Nittan Protocol
<b>MXP-568</b>	Loop Driver Card - Apollo, Hochiki Protocols

\* = Network (/FT optional fault-tolerant network)  
 † = Boxed (**BX** in enclosure)

**Independent Boxed PSE Units**

<b>MXP-049</b>	1.5A PSE in 7Ah Enclosure
<b>MXP-050-001</b>	3.0A PSE in 7Ah Enclosure
<b>MXP-050-002</b>	3.0A PSE in 17Ah enclosure
<b>MXP-051</b>	5.0A PSE in 17Ah enclosure
<b>MXP-051/D</b>	5.0A PSE in 38Ah enclosure
<b>MXP-549</b>	1.5A PSE in 7Ah Enclosure
<b>MXP-550</b>	3.0A PSE in 17/18Ah enclosure
<b>MXP-550/D</b>	3.0A PSE in 25Ah enclosure
<b>MXP-551</b>	5.0A PSE in 17/18Ah enclosure
<b>MXP-551/D</b>	5.0A PSE in 38Ah enclosure

## Common Arrangements

**The Elan 5000 series includes the 5000 Apollo Protocol Series Fire Alarm Control Panels, Base Firmware 60.03.xx.**

All Elan 5000 Series models are designed for use with the Apollo (Discovery, Xplorer, XP95 and Series 90) and Hochiki (ESP) analogue addressable fire detection devices connected to the panel through the MXP-502 or MXP-568 loop driver. Apollo and Hochiki conventional fire detection devices may be connected through the MXP-536 Peripheral Zone card for either loop or radial connection. Apollo loops support up to 126 devices, Hochiki loops support up to 127 devices.

- HS-5100 Base card 1 loop (HS-5101)**
- HS-5200 Base card 1 to 2 loop (HS-5201, HS-5202)**
- HS-5400 Base card 1 to 4 loop (HS-5401, HS-5402, HS-5403, HS-5404)**
- HS-5800 Base card 2 to 8 loop (HS-5802\*, HS-5803\*, HS-5804, HS-5805\*, HS-5806\*, HS-5807\*, HS-5808\*)**

\* = Network (/FT optional fault-tolerant network)

All panel models are available in a range of enclosure sizes and with a range of alternative optional features.

**The Elan 5000 series includes the 5000N Nittan Protocol Series Fire Alarm Control Panels, Base Firmware 060.03.xx.**

All Elan 5000N Series models are designed for use with the Nittan fire detection devices (analogue addressable) connected to the panel through the MXP-567 loop driver. Nittan conventional fire detection devices may be connected through the MXP-536 Peripheral Zone card for either loop or radial connection. Nittan loops support up to 254 devices.

- HS-5100N Base card 1 loop (HS-5101N)**
- HS-5200N Base card 1 to 2 loop (HS-5201N, HS-5202N)**
- HS-5400N Base card 1 to 4 loop (HS-5401N, HS-5402N, HS-5403N, HS5404N)**
- HS-5800N Base card 2 to 8 loop (HS-5802N\*, HS-5803N\*, HS-5804N\*, HS-5805N\*, HS-5806N\*, HS-5807N\*, HS-5808N\*)**

\* =Network (/FT optional fault-tolerant network)

All panel models are available in a range of enclosure sizes and with a range of alternative optional features.

**INITIAL TYPE TEST RESULTS BY NOTIFIED BODY:**

Classification & applicable standard	Assigned rating
EN54-2:1997 + AC:1999 + A1:2006 EN54-4:1997 + AC:1999 + A1:2002 + A2:2006	Meets all requirements of Annex ZA Meets all requirements of Annex ZA

(PR465769 & PR460570)