FM Approvals
Member of the FM Global Group

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CERTIFICATE OF CONSTANCY OF PERFORMANCE

2809 - CPR – E0029

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

Evo+ 5000 Series

Scope of Certificate: Evo+ 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

Nittan Europe Ltd
Hipley Street, Old Woking, Surrey
GU22 9LQ
United Kingdom

and produced in the manufacturing plant(s)

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 and PR452927 dated August 2019 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 15th November 2022 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Digitally signed by Richard A Zammitt
Location: Ireland
Foxit PhantomPDF Version: 10.0.1

Issue 1, Dublin, dated 15th November 2022

Richard Zammitt Certification Manager
On behalf of FM Approvals Europe Limited
(Project Id 3057699, PR452927, RR224051,PR461023)

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APPENDIX TO CERTIFICATE OF CONSTANCY OF PERFORMANCE

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Full Product Description

Evo+ 5000 series control and indicating equipment have several common features used with varied fire detection devices.

All Evo+ 5000 series CIEs Include:

One or more Base Card(s) with control circuitry for up to four loop driver cards, inputs / outputs and integral 3 A or 5 A power supply
Evo+ 5400 Base card 1-4 loop
Evo+ 5100 Base card 1 loop
Evo+ 5200 Base card 2 loop
A display card driving a white backlit 240 x64 Graphical display
Evo+ 5000 display
Loop driver card(s) (One to four loop driver cards depending on model of base card)
Mxp-567 Nittan Loop driver

Independent Power supply units compatible with the series are:

Mxp-549:	1.5A PSE in 7Ah enclosure
Mxp-550:	3.0A PSE in 17/18Ah enclosure
Mxp-550D:	3.0A PSE in 25Ah enclosure
Mxp-551:	5.0A PSE in 17/18Ah enclosure
Mxp-551D:	5.0A PSE in 38Ah enclosure
Mxp-049:	1.5A PSE in 7Ah enclosure
Mxp-050-001:	3.0A PSE in 7Ah enclosure
Mxp-050-002:	3.0A PSE in 17Ah enclosure
Mxp-051:	5.0A PSE in 17Ah enclosure
Mxp-051/D:	5.0A PSE in 38Ah enclosure

Other Common optional modules for all CIE models include:

Mxp-501	Battery Temperature Sensor
Mxp-503	Standard network interface
Mxp-505	Sounder Active EOL, alternate EOL terminator supporting EN54-13 monitoring of the sounder circuit.
Mxp-506	Routing / Protection Termination Interface, provides a standardized interface to be mounted in the routing / protection equipment, providing volt-free relay outputs and inputs.
Mxp-507	2-Way Relay Card, provides 2 configurable Relay Outputs (2 x FORM C)
Mxp-509	Fault tolerant network interface card
Mxp-512	Printer, integral thermal, provides 40 column, configurable
Mxp-513-xxx	LED indicator modules
Mxp-514	AC Filter card required if two or more power supplies are to be installed
Mxp-528	Modem Interface, for remote diagnostics
Mxp-532	Fire/fault routing equipment interface
Mxp-536	Peripheral Zone card
Mxp-537	Peripheral Input Card, provides monitoring of up to 10, volt free, switch inputs that can be individually configured to operate in monitored or unmonitored mode
Mxp-538	16-Way Switch / 48 LED Card, 16 Configurable Switches, Push Button, Switch Input, 48 Configurable LED Indicators, arranged in groups of 3 connects to the peripheral bus
Mxp-539	16-Way Input 48-Way Output Card, 16 Configurable Inputs, Push Button, Switch Input, 48 Configurable Outputs
Mxp-540-xx	LED Indicator, 32 Red, 32 Yellow or 16 Red/16 Yellow

Mxp-544	Peripheral 8-Way Relay Card, provides 8 configurable Relay Outputs (2 x FORM C, 6 x FORM A)
Mxp-547†	Pager Interface, RS232 ESPA.4.4.4 communication to ancillary paging systems

† May be followed by -BX

Common Network Peripherals

Evo+ 5010*	Remote Display Terminal, reduced indications only
Evo+ 5020*	Remote Control Terminal, reduced indications, with control
Evo+ 5030*	Remote Control Terminal, full indication and full control
Mxp-545*	Peripheral Expansion Network Node, may be mounted in Nittan enclosures along with Mx-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.
Mxp-510†	BMS Interface, RS232 connection to Building Management PC
Mxp-554†	LAN Gateway, TCP/IP connection to internet/intranet for status and email alerts and remote diagnostics/control

* May be followed by /FT
† May be followed by /FT, -BX or -BX/FT

Common arrangements:

The Nittan Evo+ 5000 Series Fire Alarm Control Panels include Base Firmware 053-34c. All panel models are available in a range of enclosure sizes and with a range of alternative optional features.
The Evo+ 5100 is a Single Loop, Analogue Addressable Fire Alarm Control Panel.
The Evo+ 5200 is a Two Loop, Analogue Addressable Fire Alarm Control Panel.
The Evo+ 5400 is a Multiple Loop, Analogue Addressable Fire Alarm Control Panel with provision for up to four loops.
The Evo+ 5800* is a Multiple Loop, Analogue Addressable Fire Alarm Control Panel with provision for up to eight loops.

*May be followed by /FT

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

INITIAL TYPE TEST RESULTS BY APPROVED BODY:

Classification & applicable standard	Assigned rating
EN54-2:1997 + AC:1990 + A1:2006	Meets all requirements of Annex ZA
EN54-4:1997 + AC:1999 + A1:2002 + A2:2006	Meets all requirements of Annex ZA