



Certificate of Constancy of Performance

This is to certify that:

Advanced Electronics Limited
Unit 34
Moorland Way
Nelson Park Industrial Estate
Cramlington
NE23 1WE
United Kingdom

Holds Certificate No:

0086-CPR-541661

In respect of:

EN 12094-1:2003, EN 54-2:1997+A1+AC and EN 54-4:1998+A1 & A2

Electrical automatic control and delay devices for gas extinguishing systems, fire panel and power supply equipment.

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the above construction products.

This certificate attests that all the provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the above standards under system 1 are applied and that the product fulfils (products fulfil) all the prescribed requirements set out above.

For and on behalf of BSI,
a Notified Body for the above Regulation
(Notified Body Number 0086):



Gary Fenton, Global Assurance Director

This certificate remains valid as long as the test methods and/or factory production control requirements included in the harmonised standard(s), used to assess the performance of the declared characteristics, do not change and the product(s), and the manufacturing conditions in the plant(s) are not modified significantly.

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Manufacturing Plant

Advanced Electronics Limited
Unit 34, Moorland Way
Nelson Park
Cramlington
NE23 1WE
United Kingdom

Product Information

Model Reference

EX3001

Type

Conventional Fire Alarm & Gas Extinguishing Control Panel (Environmental Class A).

Certified for use with Apollo series 65 & Orbis, Argus Aurora series, Hochiki CDX, Nittan Evolution & Sensortec series and System Sensor ECO1000 & series 300 fire detection and alarm devices.

The EX3001 is also suitable for use with Remote Status Indicators via RS485 remote status indicator link.

Note: The EX3001 Incorporates an Electrical Triggering Device in compliance with the requirements of EN 12094-3.

Options with requirements

Certified with the following options with requirements from EN 54-2:1997:

Outputs to fire alarm devices (clause 7.8)
Delays to outputs (clause 7.11)
Alarm counter (clause 7.13)
Test condition (clause 10)

Certified with the following options with requirements from EN 12094-1:2003:

Delay of extinguishing signal (clause 4.17)
Signal representing the flow of extinguishing agent (clause 4.18)
Monitoring of the status of components (clause 4.19)
Emergency hold device (clause 4.20)
Control of flooding time (clause 4.21)
Manual only mode (clause 4.23)
Triggering signals to equipment within the system (clause 4.24)
Triggering signals to equipment outside the system (clause 4.26)
Emergency abort device (clause 4.27)
Activation of alarm devices with different signals (clause 4.30)

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Product Information (continued)

Advanced Electronics Product Model

EX3001

Alternative Branded Model

Penta Extinguo

EX-3001SM

Supplier

Hertek BV

Somati Group



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Appendix 1

Harmonised Technical Specification		EN 54-2:1997+A1
Essential Characteristics	Performance	Clause
Performance Under Fire Conditions		
General requirements	Pass	4
General requirements for indications	Pass	5
The fire alarm condition	Pass	7
Response Delay (response time to fire)		
Reception and processing of fire signals	Pass	7.1
Output of the fire alarm condition	Pass	7.7
Delay to outputs	Pass	7.11
Dependencies on more than one alarm signal	Pass	7.12
Operational Reliability		
General requirements	Pass	4
General requirements for indications	Pass	5
The quiescent condition	Pass	6
The fire alarm condition	Pass	7
Fault warning condition	Pass	8
Disabled condition	Pass	9
Test condition	Pass	10
Standardised input/output interface	Pass	11
Design requirements	Pass	12
Additional design requirements for software controlled control and indicating equipments	Pass	13
Marking	Pass	14
Durability of Operational Reliability		
Cold (operational)	Pass	15.4
Damp heat, steady state (operational)	Pass	15.5
Impact (operational)	Pass	15.6
Vibration, sinusoidal (operational)	Pass	15.7
Electromagnetic Compatibility (EMC), Immunity tests (operational)	Pass	15.8
Supply voltage variations	Pass	15.13
Damp heat, steady state (endurance)	Pass	15.14
Vibration, sinusoidal (endurance)	Pass	15.15

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Appendix 1 (continued)

Harmonised Technical Specification		EN 54-4:1997+A1 & A2
Essential Characteristics	Performance	Clause
Performance of Power Supply		
General requirements	Pass	4
Functions	Pass	5
Materials, design and manufacture	Pass	6
Operational Reliability		
General requirements	Pass	4
Functions	Pass	5
Materials, design and manufacture	Pass	6
Documentation	Pass	7
Marking	Pass	8
Durability of Operational Reliability		
Cold (operational)	Pass	9.5
Damp heat, steady state (operational)	Pass	9.6
Impact (operational)	Pass	9.7
Vibration, sinusoidal (operational)	Pass	9.8
Electromagnetic Compatibility (EMC), Immunity tests (operational)	Pass	9.9
Damp heat, steady state (endurance)	Pass	9.14
Vibration, sinusoidal (endurance)	Pass	9.15

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Appendix 1 (continued)

Harmonised Technical Specification		EN 12094-1:2003
Essential Characteristics	Performance	Clause
Performance Parameters Under Fire Conditions		
Signal processing and indication	Pass	4.3
Reception and processing of input triggering signals	Pass	4.4
Transmission of extinguishing signal	Pass	4.5
Activation of alarm devices	Pass	4.6
Response Delay (response time)		
Activated condition	Pass	4.8
Operational Reliability		
Environmental Class	Pass	4.2
Signal processing and indication	Pass	4.3
Reception and processing of input triggering signals	Pass	4.4
Transmission of extinguishing signal	Pass	4.5
Activation of alarm devices	Pass	4.6
Indication of the supply with power	Pass	4.7
Activated condition	Pass	4.8
Indication of activated condition	Pass	4.9
Released condition	Pass	4.10
Indication of released condition	Pass	4.11
Resetting of the activated condition and the released condition	Pass	4.12
Fault warning condition	Pass	4.13
Indication of the fault warning condition	Pass	4.14
Disabled condition	Pass	4.15
Indication of disabled condition	Pass	4.16
Mechanical design	Pass	5.2
Manual controls	Pass	5.3
Indication by means of separate light emitting indicators	Pass	5.4.2
Indications by means of alphanumeric displays	Pass	5.4.3
Audible indicators	Pass	5.5
Electrical design of components	Pass	5.6
Circuit design	Pass	5.7

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Appendix 1 (continued)

Harmonised Technical Specification		EN 12094-1:2003
Essential Characteristics	Performance	Clause
Operational Reliability		
Additional design requirements for software controlled ECD's	Pass	6
Marking	Pass	7
Documentation	Pass	8
Durability of Operational Reliability		
Environmental Class	Pass	4.2
Functional tests	Pass	9.2

