

# Certificate of Constancy of Performance

This is to certify that:

Advanced Electronics Ltd  
The Bridges  
Balliol Business Park  
Newcastle-Upon-Tyne  
NE12 8EW  
United Kingdom

Holds Certificate Number: 2797 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 product. This certificate attests that all the provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the above standard(s) under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product(s). This certificate was first issued on the date below 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the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

For and on behalf of BSI, a Notified Body for the above Regulation (Notified Body Number 2797):

Drs. Dave Hagenaaars, Managing Director

First Issued: 2008-09-29

Latest Issue: 2022-03-22

Page: 1 of 8



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# Certificate of Constancy of Performance

No. 2797 CPR 541661

## Product Information

| Model Reference | Type   |
|-----------------|--|
| EX3001          | Conventional Fire Alarm & Gas Extinguishing Control Panel<br>(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 the EX3020, EX3021, EX3030 & EX3031 Remote Status Indicators via RS485 remote status indicator link.

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

## Options with requirements

### Certified with the following options with requirements from BS EN 54 Part 2:1998:

Outputs to fire alarm devices (clause 7.8)  
Delays to outputs (clause 7.11)  
Alarm counter (clause 7.13)  
Total loss of the power supply (clause 8.4)  
Test condition (clause 10)

### Certified with the following options with requirements from BS 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)

First Issued: 2008-09-29

Latest Issue: 2022-03-22

Page: 2 of 8

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No. 2797 CPR 541661

## Product Information

### Advanced Electronics Product Model

EX3001

### Alternative Branded Model

Penta Extinguo

EX-3001SM

### Supplier

Hertek BV

Somati Group



First Issued: 2008-09-29

Latest Issue: 2022-03-22

Page: 3 of 8

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No. 2797 CPR 541661

## Appendix 1

| Harmonised Technical Specification   |             | EN54-2: 1997 + A1 |
|--|-------------|-------------------|
| Essential Characteristics  | Performance | Clause            |
| <b>Performance Under Fire Conditions</b>   |             |                   |
| General requirements   | Pass        | 4                 |
| General requirements for indications   | Pass        | 5                 |
| The fire alarm condition   | Pass        | 7                 |
| <b>Response Delay (response time to fire)</b>  |             |                   |
| 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              |
| <b>Operational Reliability</b>   |             |                   |
| 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                |
| Design requirements  | Pass        | 12                |
| Additional design requirements for software controlled control and indicating equipments | Pass        | 13                |
| Marking  | Pass        | 14                |
| <b>Durability of Operational Reliability</b>   |             |                   |
| Cold (operational)   | Pass        | 15.4              |
| Damp heat, steady state (op & end)   | Pass        | 15.5, 15.14       |
| Impact (operational)   | Pass        | 15.6              |
| Vibration, sinusoidal (op & end)   | Pass        | 15.7, 15.15       |
| Electromagnetic Compatibility (EMC), Immunity tests (operational)                        | Pass        | 15.8              |
| Supply voltage variations  | Pass        | 15.13             |

First Issued: 2008-09-29

Latest Issue: 2022-03-22

Page: 4 of 8

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No. 2797 CPR 541661

## Appendix 1 (Continued)

| Harmonised Technical Specification                                |             | EN54-4: 1997 + A1 & A2 |
|---|-------------|------------------------|
| Essential Characteristics   | Performance | Clause                 |
| <b>Performance of Power Supply</b>                                |             |                        |
| General requirements  | Pass        | 4                      |
| Functions   | Pass        | 5                      |
| Materials, design and manufacture                                 | Pass        | 6                      |
| <b>Operational Reliability</b>                                    |             |                        |
| General requirements  | Pass        | 4                      |
| Functions   | Pass        | 5                      |
| Materials, design and manufacture                                 | Pass        | 6                      |
| Documentation   | Pass        | 7                      |
| Marking   | Pass        | 8                      |
| <b>Durability of Operational Reliability</b>                      |             |                        |
| 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                   |

First Issued: 2008-09-29

Latest Issue: 2022-03-22

Page: 5 of 8

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No. 2797 CPR 541661

## Appendix 1 (Continued)

| Harmonised Technical Specification                              |             | EN12094-1: 2003 |
|---|-------------|-----------------|
| Essential Characteristics                                       | Performance | Clause          |
| <b>Performance Parameters Under Fire Conditions</b>             |             |                 |
| 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             |
| <b>Response Delay (response time)</b>                           |             |                 |
| Activated condition   | Pass        | 4.8             |
| <b>Operational Reliability</b>                                  |             |                 |
| 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             |

First Issued: 2008-09-29

Latest Issue: 2022-03-22

Page: 6 of 8

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## Appendix 1 (Continued)

| Harmonised Technical Specification                           |             | EN12094-1: 2003 |
|--|-------------|-----------------|
| Essential Characteristics                                    | Performance | Clause          |
| <b>Operational Reliability</b>                               |             |                 |
| 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             |
| Additional design requirements for software controlled ECD's | Pass        | 6               |
| Marking  | Pass        | 7               |
| Documentation  | Pass        | 8               |
| <b>Durability of Operational Reliability</b>                 |             |                 |
| Environmental Class  | Pass        | 4.2             |
| Functional tests   | Pass        | 9.2             |

First Issued: 2008-09-29

Latest Issue: 2022-03-22

Page: 7 of 8

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## Manufacturing Plant

Advanced Electronics Ltd  
The Bridges  
Balliol Business Park  
Newcastle-Upon-Tyne  
NE12 8EW  
United Kingdom

## Certified Activities

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



First Issued: 2008-09-29

Latest Issue: 2022-03-22

Page: 8 of 8

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