

# Certificate of Constancy of Performance

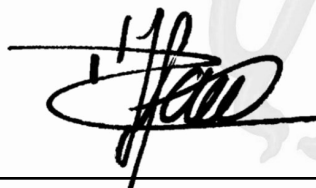
This is to certify that: Kentec Electronics Limited  
Unit 25-26  
Fawkes Avenue Questor  
Dartford  
DA1 1JQ  
United Kingdom

Holds Certificate Number: 2797 CPR 496748

In respect of:

**EN 12094-1:2003, EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2003 & A2:2006  
Electrical Automatic Control and Delay Devices  
Control and Indicating Equipment 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 are applied and that the product fulfils (products fulfil) all the prescribed requirements set out above. 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 essential characteristics, do not change and the products(s), and the manufacturing conditions in the plants(s) are not modified significantly.



For and on behalf of BSI, a Notified  
Body for the above Regulation  
(Notified Body Number 2797):  
Previous Notified Body: BSI 0086  
First Issued: 2005-10-19

\_\_\_\_\_  
Drs. Dave Hagenaaers, Managing Director

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No. 2797 CPR 496748

**Manufacturing Plant:** **Kentec Electronics Limited**  
Units 25-27 Fawkes Avenue  
Questor  
Dartford  
DA1 1JQ  
United Kingdom

## Product Information

### Sigma XT series

Model Reference	Type
K11031M2	Class A, Single area Fire Extinguishing Control Panel Surface mounting
K11031F2	Class A, Single area Fire Extinguishing Control Panel Flush mounting

Certified for use with Apollo, Fulleon, Hochiki, Nittan, Notifier and MorleyIAS and alarm products and MTL7778ac and MTL5561 intrinsically safe barriers. System Sensor and KAC fire detection.

The Sigma XT is certified when fitted with Swedish Keyswitch.

The Sigma XT is also suitable for use with the following units:

Model Reference	Type
K911000M8	6 lamp status unit surface
K911000F8	6 lamp status unit flush
K911100M8	6 lamp status unit with mode select keyswitch surface
K911100F8	6 lamp status unit with mode select keyswitch flush
K911010M8	6 lamp status unit with manual release surface
K911010F8	6 lamp status unit with manual release flush
K911110M8	6 lamp status unit with mode select keyswitch and manual release surface
K911110F8	6 lamp status unit with mode select keyswitch and manual release flush
W911000W8	IP65 - 6 lamp status unit surface
W911100W8	IP65 - 6 lamp status unit surface with mode select keyswitch surface
W911110W8	IP65 - 6 lamp status unit with mode select keyswitch and manual release surface
K91000M10	Extinguishant hold off switch unit - green button
KB91000M10	Extinguishant hold off switch unit - red button

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## Options with requirements

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

Output to fire alarm devices (clause 7.8)  
Delays to outputs (clause 7.11)  
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)  
Activation of alarm devices with different signals (clause 4.30)



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## **Sigma XT+ Series**

<b>Model Reference</b>	<b>Type</b>
K21001M2	Class A, Single area extinguishing control unit
K21021M3	Class A, Two zone, single area extinguishing control panel
K21041M3	Class A, Four zone, single area extinguishing control panel
K21042M3	Class A, Four zone, two area extinguishing control panel
K21081M3	Class A, Eight zone, single area extinguishing control panel
K21082M3	Class A, Eight zone, two area extinguishing control panel
K21083M4	Class A, Eight zone, three area extinguishing control panel
K21084M4	Class A, Eight zone, four area extinguishing control panel

Certified for use with Apollo series 30, 60 & 65, Fulleon, Hochiki, Nittan, Notifier and MorleyIAS ECO1000, KAC fire detection and alarm products and MTL7778ac and MTL5561 intrinsically safe barriers.

The Sigma XT+ is certified when fitted with Swedish Keyswitch.

The Sigma XT+ is also suitable for use with the following units:

<b>Model Reference</b>	<b>Type</b>
K911000M8	6 lamp status unit surface
K911000F8	6 lamp status unit flush
K911100M8	6 lamp status unit with mode select keyswitch surface
K911100F8	6 lamp status unit with mode select keyswitch flush
K911010M8	6 lamp status unit with manual release surface
K911010F8	6 lamp status unit with manual release flush
K911110M8	6 lamp status unit with mode select keyswitch and manual release surface
K911110F8	6 lamp status unit with mode select keyswitch and manual release flush
W911000W8	IP65 - 6 lamp status unit surface
W911100W8	IP65 - 6 lamp status unit surface with mode select keyswitch surface
W911110W8	IP65 - 6 lamp status unit with mode select keyswitch and manual release surface
K91000M10	Extinguishant hold off switch unit - green button
KB91000M10	Extinguishant hold off switch unit - red button

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## Options with requirements

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

Output to fire alarm devices (clause 7.8)  
Delays to outputs (clause 7.11)  
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 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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## Syncro XT+ K31000 & K32000 Series

Model Reference	Type
A31161M3	Class A, 1 loop, 1 Area Extinguishant Control Panel
A32161M3	Class A, 2 loop, 1 Area Extinguishant Control Panel
A31162M3	Class A, 1 loop, 2 Area Extinguishant Control Panel
A32162M3	Class A, 2 loop, 2 Area Extinguishant Control Panel
A31163M4	Class A, 1 loop, 3 Area Extinguishant Control Panel
A32163M4	Class A, 2 loop, 3 Area Extinguishant Control Panel
A31164M4	Class A, 1 loop, 4 Area Extinguishant Control Panel
A32164M4	Class A, 2 loop, 4 Area Extinguishant Control Panel
H31161M3	Class A, 1 loop, 1 Area Extinguishant Control Panel
H32161M3	Class A, 2 loop, 1 Area Extinguishant Control Panel
H31162M3	Class A, 1 loop, 2 Area Extinguishant Control Panel
H32162M3	Class A, 2 loop, 2 Area Extinguishant Control Panel
H31163M4	Class A, 1 loop, 3 Area Extinguishant Control Panel
H32163M4	Class A, 2 loop, 3 Area Extinguishant Control Panel
H31164M4	Class A, 1 loop, 4 Area Extinguishant Control Panel
H32164M4	Class A, 2 loop, 4 Area Extinguishant Control Panel
V31161M3	Class A, 1 loop, 1 Area Extinguishant Control Panel
V32161M3	Class A, 2 loop, 1 Area Extinguishant Control Panel
V31162M3	Class A, 1 loop, 2 Area Extinguishant Control Panel
V32162M3	Class A, 2 loop, 2 Area Extinguishant Control Panel
V31163M4	Class A, 1 loop, 3 Area Extinguishant Control Panel
V32163M4	Class A, 2 loop, 3 Area Extinguishant Control Panel
V31164M4	Class A, 1 loop, 4 Area Extinguishant Control Panel
V32164M4	Class A, 2 loop, 4 Area Extinguishant Control Panel

Certified for use with Apollo, Hochiki, and Argus Vega fire detection and alarm products

Prefix A = Apollo Protocol, H = Hochiki Protocol & V = Argus Vega Protocol

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The following Sigma Si status units are compatible for use with the K31000 & K32000 models in Table 1:

K911000M8 6 lamp status unit surface

K911000F8 6 lamp status unit flush

K911100M8 6 lamp status unit with mode select keyswitch surface

K911100F8 6 lamp status unit with mode select keyswitch

K911010M8 6 lamp status unit with manual release surface

K911010F8 6 lamp status unit with manual release flush

K911110M8 6 lamp status unit with mode select keyswitch and manual release surface

K911110F8 6 lamp status unit with mode select keyswitch and manual release flush

W911000W8 IP65 - 6 lamp status unit surface

W911100W8 IP65 - 6 lamp status unit surface with mode select keyswitch surface

W911110W8 IP65 - 6 lamp status unit with mode select keyswitch and manual release surface

## Options with requirements

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

Output to fire alarm devices (clause 7.8)

Delays to outputs (clause 7.11)

Test condition (clause 10)

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

Delay of extinguishing signal (clause 4.17) – up to 60 seconds

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 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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## Appendix 1

Harmonised Technical Specification		EN 54-2:1997 + 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
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
<b>Durability of Operational Reliability</b>		
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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# Certificate of Constancy of Performance

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## Appendix 1 (Continued)

Harmonised Technical Specification		EN 54-4:1997 + 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

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## Appendix 1 (Continued)

Harmonised Technical Specification		EN 12094-1:2003
Essential Characteristics	Performance	Clause
<b>Performance Under Fire Conditions</b>		
Signal processing and indication	Pass	4.3
Reception and processing of input triggering signals	Pass	4.4
The fire alarm condition	Pass	4.5
Activation of alarm devices	Pass	4.6
<b>Response Delay (response time to fire)</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
Release 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
Indication 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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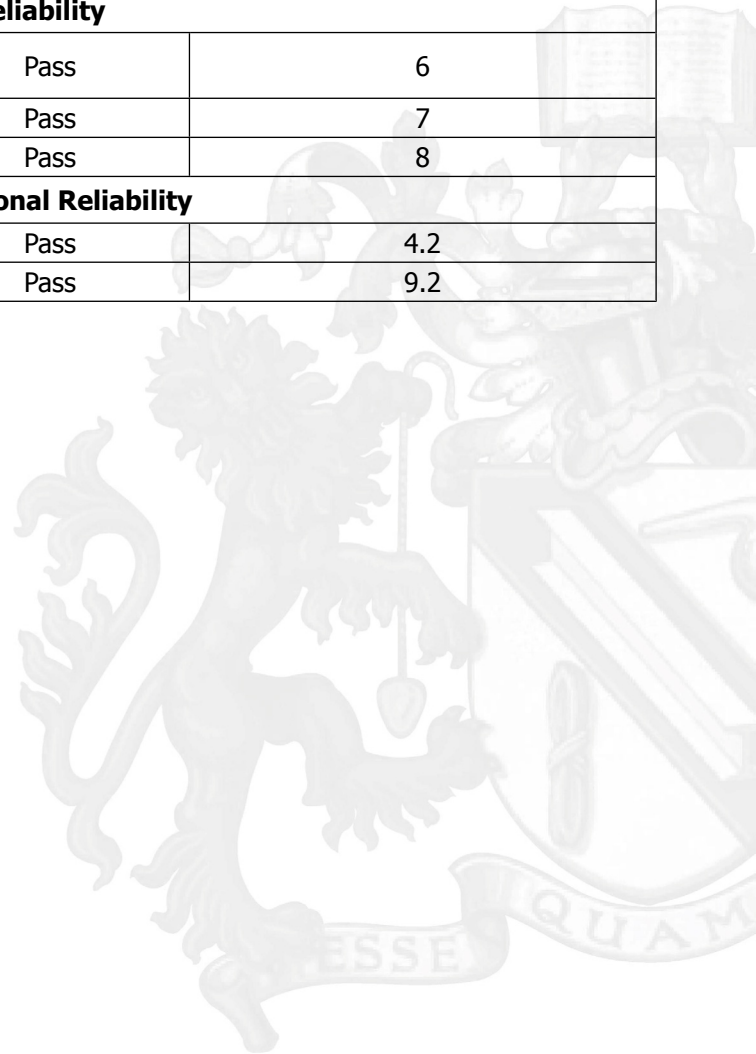
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## Appendix 1 (Continued)

Harmonised Technical Specification		EN 12094-1:2003
Essential Characteristics	Performance	Clause
<b>Operational Reliability</b>		
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



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## Manufacturing Plant

Kentec Electronics Limited  
Unit 25-26  
Fawkes Avenue Questor  
Dartford  
DA1 1JQ  
United Kingdom

## Certified Activities

EN 12094-1:2003, EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2003 & A2:2006  
Electrical Automatic Control and Delay Devices  
Control and Indicating Equipment and Power Supply  
Equipment.



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