

Extinguishant Control Panel

Sigma ZXT

Quick Start Guide



Safety

Suppliers of articles for use at work are required to ensure as reasonably as is practical that the article will be safe and without risk to health when properly used. An article is not regarded as properly used if it is used 'without regard to any relevant information or advice' relating to its use made available by the supplier.

This product should be installed, commissioned and maintained by trained service personnel in accordance with the following:

- (i) Regulations for electrical equipment in buildings specific to the country of use.
- (ii) Codes of practice
- (iii) Statutory requirements
- (iv) Any instructions advised by the manufacturer.

Installers of this product are required to take such steps as necessary to ensure that all appropriate information and training is provided to anyone concerned with its use.

This equipment is designed to operate at 230V AC 50/60Hz mains supplies, class 1 construction. As such it must be connected to a protective earthing conductor in the fixed wiring of the installation, failure to ensure that all conductive accessible parts of this equipment are adequately bonded to the protective earth will render the equipment unsafe.

A readily accessible double pole disconnect device meeting the requirements of the relevant electrical safety regulations specific to the country of use, which disconnects live and neutral simultaneously shall be incorporated in the fixed wiring.

This equipment is certified as environmental class A and therefore designed for indoor use only at temperatures between -10°C and +45°C with a maximum relative humidity of 95%. The IP rating for the enclosure is IP30.

Operation outside of these limits may render the equipment unsafe.

Sigma ZXT Quick Start Guide

This Quick Start Guide provides dedicatory information relating to standard and larger enclosure versions of the Kentec Sigma ZXT Extinguishant Control Panel (ECP).



Important! Information in this Start Guide is supplementary.

The product Installation Manual and Operation Manual should read, understood and referred to throughout.

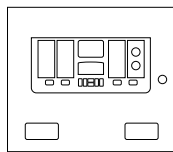
This Quick Start Guide covers:

- What's in the box?
- QR Codes
- Panel at a Glance
- Connection Terminals
- Compliance
- Terms & Conditions

What's in the box?

The Sigma ZXT includes the following components and hardware.

Figure A-1
Items in the box (NOT TO SCALE)



1x
Control
Panel



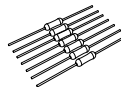
1x
Pre-mounted
Power Supply



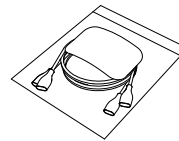
2x
Enclosure
Lock Keys



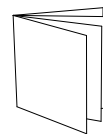
4x
Key Switch
Keys



1x
Resistor,
Diode &
Capacitor Kit



1x
Power Supply
Accessory Pack
(Only supplied with
K195311XM3 and
K195312XM3)



1 x
Quick Start
Guide

QR Codes

The QR codes below provide links to the Sigma ZXT Installation and Operation Manuals. Using your Smartphone, tablet or device (where necessary) install a third party QR Code Reader and scan the code to open the documents.

Figure A-2
Reading the QR Codes



Installation Manual



Operation Manual



Sigma ZXT Si Product Manual

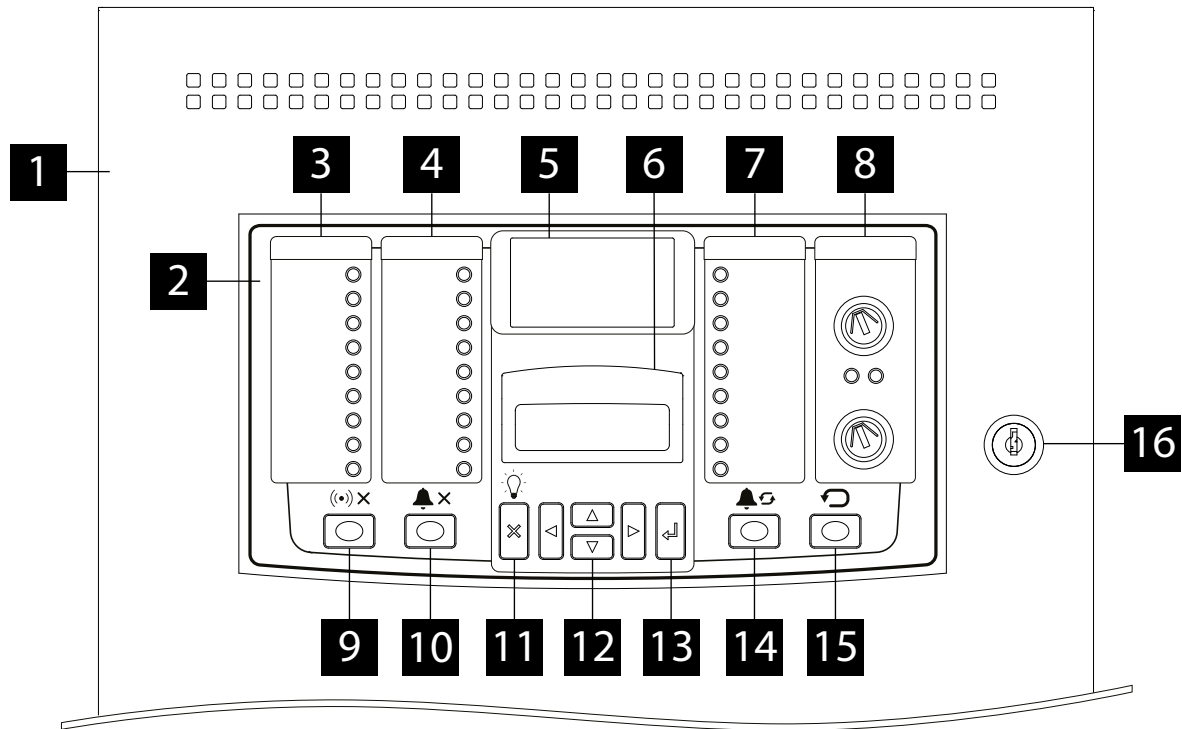
Should you be unable to work with QR codes Manuals can be obtained by visiting the following website pages:

Manual Variant	Website
Installation Manual	http://www.kentec.co.uk/manuals/man-1451EN.pdf
Operation Manual	http://www.kentec.co.uk/manuals/man-1452EN.pdf
Sigma ZXT Si Product Manual	http://www.kentec.co.uk/manuals/man-1453.pdf

Panel at a Glance

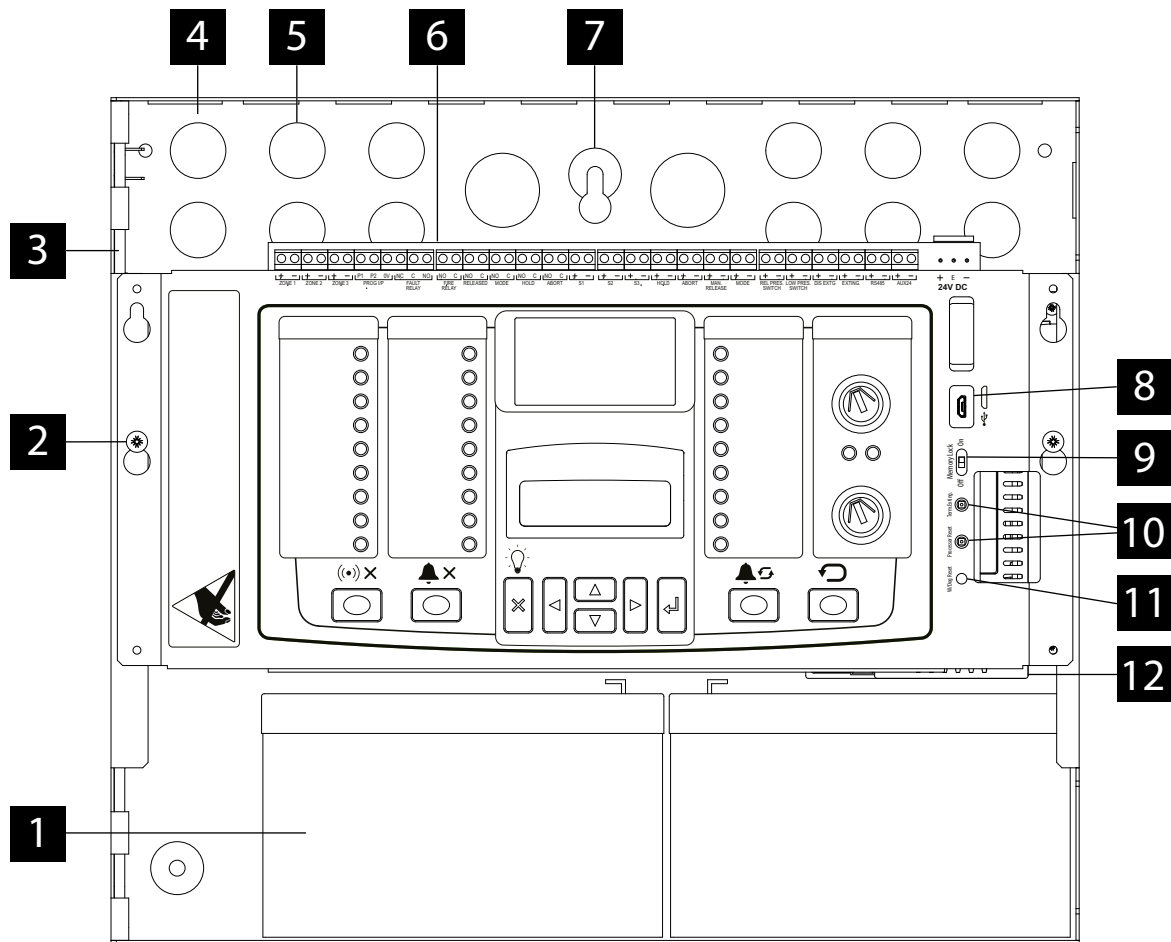
The diagrams below provide an overview of the panel main components and features:

Figure A-3
Sigma ZXT Front Fascia



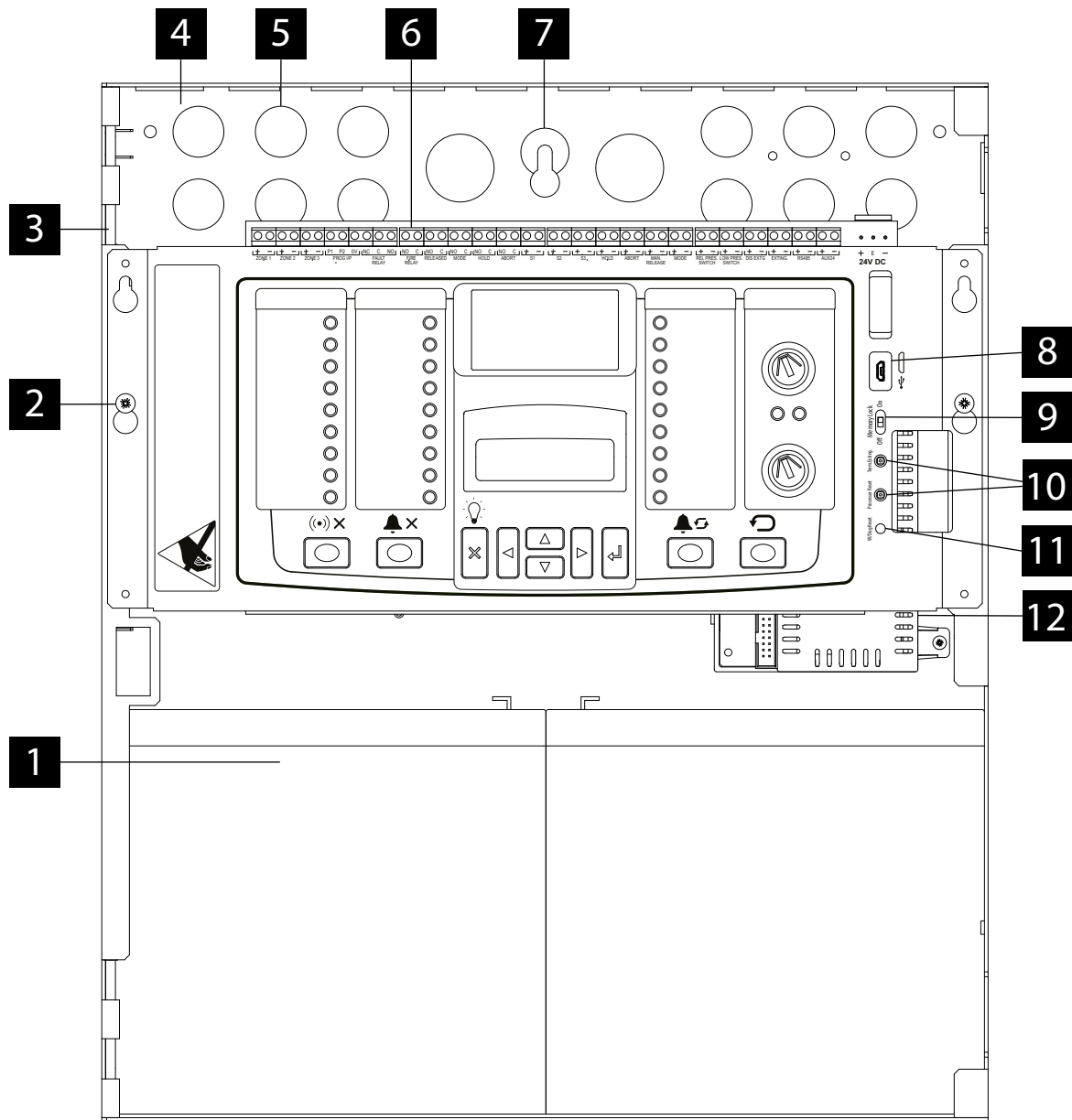
- | | |
|---|---|
| 1. Panel enclosure | 9. Silence buzzer push button |
| 2. Control Panel fascia | 10. Alarm push button |
| 3. Alarm Status LED indicators | 11. Lamp test and menu exit push button |
| 4. General Status LED Indicators | 12. LCD navigation push buttons |
| 5. Liquid Crystal Display (LCD) | 13. Enter push button |
| 6. Manual release push button with protective cover | 14. Alarm Re-Sound push button |
| 7. Extinguishant Status LED indicators | 15. Reset push button |
| 8. Control key-switches | 16. Panel enclosure lock |

Figure A-4
Sigma ZXT Standard Enclosure Internal Layout



- | | |
|--|--|
| 1. Standby batteries (x2) | 7. Enclosure fixing point (x3) |
| 2. Controls Panel fascia fixings (x2) | 8. Micro B USB connection |
| 3. Enclosure hinge points (x2) | 9. Memory lock toggle switch |
| 4. Enclosure back-box | 10. Reset micro-switches (x2) |
| 5. Enclosure cable entry points (knock-outs) | 11. Watchdog reset lamp |
| 6. Control Panel wiring terminals | 12. 2.6A Power supply (behind controls fascia) |

Figure A-5
Sigma ZXT Large Enclosure Internal Layout



- | | |
|--|--------------------------------|
| 1. Standby batteries (x2) | 7. Enclosure fixing point (x3) |
| 2. Controls Panel fascia fixings (x2) | 8. Micro B USB connection |
| 3. Enclosure hinge points (x2) | 9. Memory lock toggle switch |
| 4. Enclosure back-box | 10. Reset micro-switches (x2) |
| 5. Enclosure cable entry points (knock-outs) | 11. Watchdog reset lamp |
| 6. Control Panel wiring terminals | 12. 5.25A Power supply |

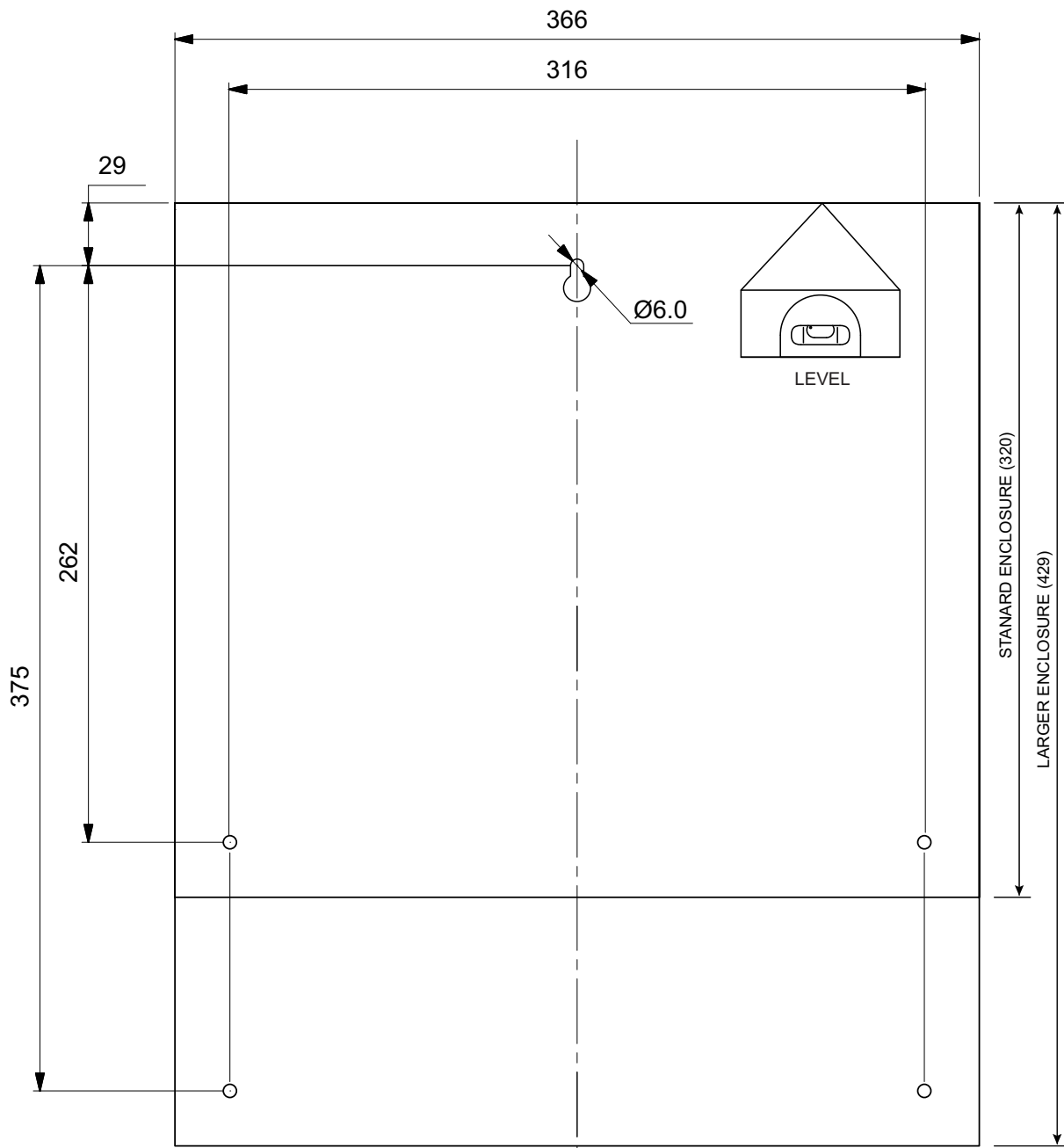
Hanging the Enclosure

1. Make the central fixing.
2. Hang the enclosure on central fixing (ensuring the enclosure is level).
3. Mark the lower two fixing points.
4. Temporarily remove enclosure from centre fixing, make lower fixings.
5. Re-hang enclosure and tighten all three fixings.

The diagram below can be referred to for fixing centres/enclosure sizes. Refer to Sigma ZXT Installation Manual throughout.

Important! Ensure the panel is installed on a suitable, clean, dry flat vertical surface.

Figure A-6
Enclosure Dimensions and Fixing Centres

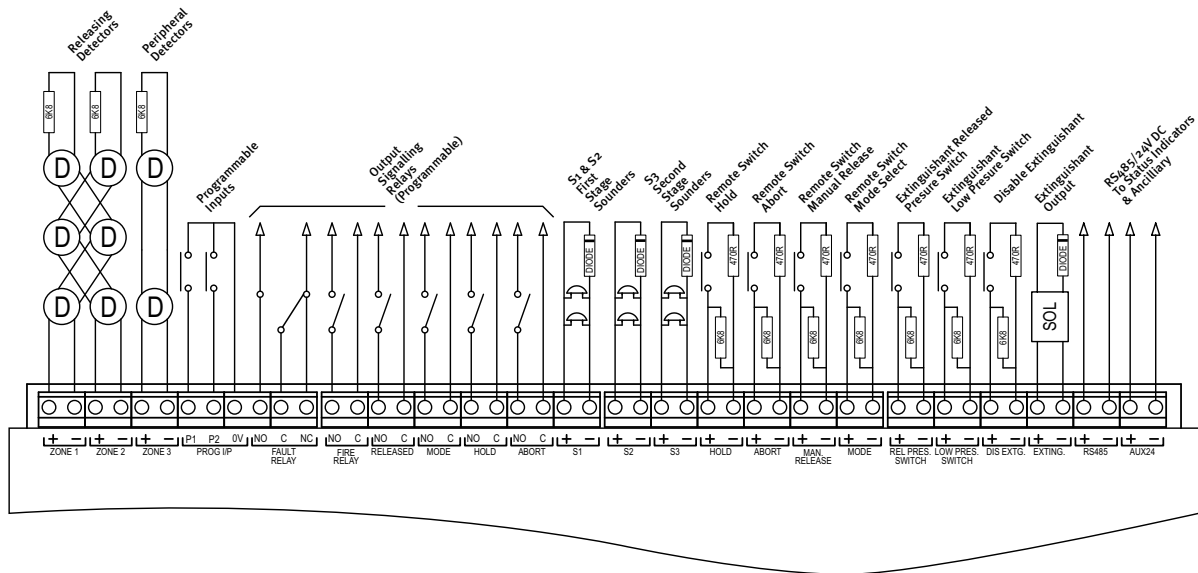


Connection Terminals

The diagram below shows panel connection terminals.

Note: Power connection is made directly to the Power Supply mains input terminals (L,N,E), located behind control fascia.

Figure A-7
Connection Terminals



Compliance

Sigma ZXT is compliant with the following standards:

EN54-2 and EN54-4 Fire Detection and Fire Alarm Systems - Control and Indicating Equipment

In addition to the standard EN54-2 requirements the following options with requirements have been included in the Control Panel:

Output to alarm devices to enable an audible warning to be sounded throughout the premises upon the detection of a fire condition or the operation of a manual call point. EN54-2 Section 7.8.

Test condition to allow the automatic resetting of zones in alarm for testing purposes. EN54-2 Section 10.

Delay of the actioning of fire alarm devices (sounders) so that an alarm may be verified before a premise is evacuated. EN54-2 Section 7.11

In addition to the requirements of EN54-2, Sigma ZXT Control Panels have a voltage free relay contact for fire which operates upon a fire condition. This is to be used for local control and signalling.

EN12094-1 Fixed fire-fighting systems - Components for gas extinguishing systems - Part 1: Requirements and test methods for electrical automatic control and delay devices.

In addition to the standard EN12094-1 requirements the following options with requirements have been included in the Control Panel:

EN12094-1 Section 4.17. Delay of extinguishing signal of up to 60 seconds.

EN12094-1 Section 4.18. Signal representing the flow of extinguishing agent to indicate the released condition.

EN12094-1 Section 4.19. Monitoring of the status of components by way of a low pressure switch input.

EN12094-1 Section 4.20. Emergency hold device to enable the extinguishant delay time to be extended.

EN12094-1 Section 4.21. Control of flooding time to deactivate the releasing output after a set period of time.

EN12094-1 Section 4.23. Manual only mode to disable the release of extinguishant via automatic detection devices.

EN12094-1 Section 4.25. Extinguishing signals to spare cylinders enables the switching to a spare set of cylinders following a discharge to return the system to a functional state.

EN12094-1 Section 4.27. Emergency Abort device to inhibit the extinguishing signal until the emergency abort device has been de-activated and the Panel has been reset.

EN12094-1 Section 4.30. Activation of alarm devices with different signals to indicate pre-discharge and released warnings using different sounds.

Default panel settings provide EN54-2 compliance:

BUZZER O/P: Enabled/Disabled This must be set to **ENABLED**.

MAINS FLT RLY DLY: OFF/30m This must be set to **OFF**.

FAULT RELAY: ENABLED/DISABLED This must be set to **ENABLED**.

FIRE RELAY: ENABLED/DISABLED. This must be set to **ENABLED**.

EARTH FAULT: ENABLED/DISABLED This must be set to **ENABLED**.

Important! Any deviation from these settings and compliance EN54-2 is void.

Rating Label

Kentec Electronics Ltd. Dartford DA1 1JQ U.K.	
2831-CPR-F4442	
EN 54-2:1997 + A1: 2006 EN 54-4:1997 + A1: 2002 + A2: 2006 SIGMA ZXT - Control and indicating equipment for fire detection and fire alarm systems for buildings	
Provided options: 7.8 - Output to fire alarm devices. 7.11 - Delays to outputs. 10.00 - Test Conditions.	
EN12094-1: 2003 Electrical automatic control and delay device. Environmental Class A. 1 Flooding Zone. High or low pressure CO2 and Halocarbon extinguishing systems.	
Provided options: 4.17 - Delay of extinguishing signal. 4.18 - Signal representing the flow of extinguishing agent. 4.19 - Monitoring of the status of components. 4.20 - Emergency hold device. 4.21 - Control of flooding. 4.23 - Manual only mode. 4.25 - Extinguishing signals to spare cylinders 4.27 - Emergency abort devices. 4.30 - Activation of alarm devices with different signals. Response delay activated condition maximum 3 sec. Response delay triggering of outputs maximum 1 sec. For other technical data see O & M Manual Doc ref: Man-1451	
Works Order No:	
Model number:	
Date of manufacture:	
Power rating 115 / 230 VAC, 1A, 50Hz Mains fuse - 250V, 3A SB - Replace only with similar type. Lab-2231 V1.2	

Terms and Conditions

Details of Kentec Electronics Ltd. Terms and Conditions including Warranties and Returns & Repair Policies can be found on our website at the following locations:

Terms, Conditions & Warranty <https://kentec.co.uk/terms-and-conditions/>

Returns & Repairs <http://www.kentec.co.uk/returns-and-repairs/>

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Disclaimer

In no event shall The Manufacturer be liable for any damages or injury of any nature or kind, no matter how caused, that arise from the use of the equipment referred to in this manual. Strict compliance with the safety procedures set out and referred to in this manual, and extreme care in the handling or use of the equipment, are essential to avoid or minimise the chance of personal injury or damage to the equipment. The information, figures, illustrations, tables, specifications, and schematics contained in this manual are believed to be correct and accurate as at the date of publication or revision. However, no representation or warranty with respect to such correctness or accuracy is given or implied and The Manufacturer will not, under any circumstances, be liable to any person or corporation for any loss or damages incurred in connection with the use of this manual.

The information, figures, illustrations, tables, specifications, and schematics contained in this manual are subject to change without notice. Unauthorised modifications to the fire detection system or its installation are not permitted, as these may give rise to unacceptable health and safety hazards. By installing this equipment on a computer network, the owner accepts full and unequivocal responsibility for ensuring that it is protected against all cyber threats and illegal tampering during the lifetime of the equipment. Any software forming part of this equipment should be used only for the purposes for which The Company supplied it. The user shall undertake no changes, modifications, conversions, translations into another computer language, or copies (except for a necessary backup copy). In no event shall The Manufacturer be liable for any equipment malfunction or damages whatsoever, including (without limitation) incidental, direct, indirect, special, and consequential damages, damages for loss of business profits, business interruption, loss of business information, or other pecuniary loss, resulting from any violation of the above prohibitions.