

3 ZONE EN 12094-1 automatic extinguisher control panel





You're safe with C-TEC

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With the growing emphasis on safeguarding property as well as people, the market for automatic fire suppression systems is booming. The EP203 three zone automatic extinguisher panel from C-TEC has been specifically designed to meet this demand.

Third-party approved to EN 12094 part 1 (Fixed Firefighting Systems -Components for Gas Extinguishing Systems) and EN54 parts 2 & 4 by the LPCB, the panel epitomises quality, durability and reliability and is ideal for



use in any area housing expensive, dangerous or irreplaceable items of equipment.

Featuring an intuitive 128 x 64 pixel two-colour graphic display that gives clear and concise feedback to the user, installer and commissioning engineer, the panel also includes six monitored inputs (including hold and abort), a time stamped log, adjustable flood times and volt-free changeover relays for fire, local fire, 1st stage active, 2nd stage active, extractor fan and fault.

The panel is supplied in an elegantly styled, durable enclosure with all of its electronics - apart from its powerful 3A EN54-4 switch mode PSU - mounted on a detachable metal bridge plate for ease of installation. A wide range of ancillaries are also available including remote status units, hold-off and abort buttons, line terminators and output expansion relay boards.

- LPCB approved to EN 12094 part 1 and EN54 parts 2 & 4
- Functions as a standard three zone fire panel with • additional circuitry for controlling the release of fire-suppressing gas into protected areas
- Unique 128 x 64 pixel graphical display facilitates ► straightforward system programming
- Any combination of activated zones can be ▶ programmed to automatically start the panel's extinguishant release sequence
- Includes a pull-down front-panel manual release button and two keyswitches for accessing the panel's functions and toggling between auto/manual mode
- Three conventional sounder circuits (two x 1st stage, one x 2nd stage)
- Powerful 3A EN54-4 compliant switch mode PSU
- Low quiescent current less than 40mA on mains fail

- Wide range of monitored inputs and auxiliary outputs (see schematic)
- Abort and hold inputs allow the panel's release sequence to be cancelled or suspended at any time
- Time-stamped event log
- ► RS485 connections for up to eight flush or surface remote status units with their own LCDs, manual release and mode (auto/manual) switches. Single gang economy status units (without an LCD) are also available.
- Extensive range of commissioning and engineering functions
- Optional relay expansion boards and single gang abort and hold buttons
- Ideal for use in computer rooms, telecommunication centres, archive storage areas, chemical plants, generator rooms, museums, etc..
- System line terminator included with all panels

EP203 Automatic Extinguisher Panel & EP RANGE Ancillaries



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Why are automatic extinguisher systems required?

Although safeguarding people is an obvious mandate for any fire alarm system, protecting property and the systems that allow businesses to function comes a close second. Few enterprises can now operate without an IT department, so it is essential the technology they use is sufficiently protected from fire. A small, unattended blaze in a server room can destroy thousands of pounds worth of equipment and cause hours of downtime from which it can be difficult to recover. In areas such as chemical plants the consequences of a fire can be even worse, so it's no wonder the provision of extinguishant systems is on the increase.

How do automatic extinguisher systems work?

Automatic extinguisher systems work by controlling the release of fire-suppressing gas into areas where fires need to be put out quickly, with minimal damage to the equipment being protected. A typical automatic extinguisher system comprises the fire suppressing agent – usually an inert gas such as Argonite – storage containers, release valves, fire detectors, the control panel (and ancillaries), delivery piping and dispersion nozzles.

How difficult is an extinguisher system to install?

Fitting an extinguising system clearly requires a degree of expertise. However, the EP203 is incredibly easy to install. It is the first EN 12094 part 1 compliant extinguisher panel to feature an intuitive 128 x 64 pixel display that gives clear and concise feedback to the user, installer and commissioning engineer. This allows engineers to commission with confidence without having to refer to complicated LED arrays, convoluted 7-segment displays and look-up sheets ... everything is in plain English.

A plethora of features

Despite the EP203's ease of programming, it is one of the most powerful extinguisher panels on the market. It includes three conventional detector circuits and three conventional sounder circuits (2 x 1st stage, 1 x 2nd stage), all of which are line monitored for open and short circuit faults. Any combination of activated detector zones can be programmed to automatically activate the panel's extinguishant release sequence, which can be set to operate with or without a delay. No less than six monitored inputs are also provided, including Hold and Abort for suspending or cancelling the release sequence at anytime. An optional relay expansion board can also be fitted to provide reset, mode, discharged, hold and abort outputs.

Other features include adjustable flood times, an alarm counter that records the number of occasions the panel has been in alarm, a time-stamped log, support for up to two solenoids or multiple Metrons and volt-free changeover relay contacts for fire, local fire, first stage active, second stage active, extract fan and fault.

System expansion

For additional flexibility, up to eight flush or surface remote status units, each with their own displays, manual release mechanisms and mode switches, can be connected to the EP203 via a monitored RS485 bus. Single gang economy status units without a display are also available (8 per system). The availability of these and a host of other ancillary devices including system line terminators and hold off/abort buttons, makes the EP203 ideal for use in computer rooms, telecommunication centres, archive storage areas, chemical plants, generator rooms, museums and more.



You're safe with

EP203 Automatic Extinguisher Panel Technical Specifications

Power Supply Specification		
Mains supply voltage		230Vac, 50/60Hz
Internal power supply		24Vdc nominal
Max. output current		3A@230Vac
Power rating (including charging)		1.5A cont., 3A peak
Battery type		2 x 12Vdc, 7Ahr VRLA type, connected in series
Earth fault monitoring		0.74
Mains supply/battery charger monitored for failure		YES
Batteries monitored for disconnection and failure		VES
Quiescent current drain on mains fail		40mA approx
Detector Circuit Specificati	ion	
Number of conventional detector circuits		3 @ 21 28Vdc
Line monitored for open and short circuit faults		VFS VFS
Max. cable length per circuit		250m
Max. no. of smoke/heat detectors per circuit		20
Max. combined no. of detectors & manual call points per circuit		32
Zone quiescent current		2mA max.
End-of-line resistor value		6 K8 ohm \pm 5%, 0.25W
Sounder Circuit Specificati	ion	
No. of conventional circuits		3 (two x 1st stage, one x 2nd stage)
Line monitored for open and short circu	uit faults	YES
Sounder outputs rating		21-28Vdc, fused @200mA per circuit
Max. sounder cable length per circuit		50m
Max. number of polarised sounders per	· circuit	10 @ 20mA each
End-of-line resistor value		6K8 ohm ± 5%, 0.25W
Auxiliary outputs		
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No. of auxiliary outputs *		6 (Fire, Local Fire, Extract Fan, 1st Stage, 2nd Stage, Fault)
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No. of auxiliary outputs * Relay contact rating * Note that 5 addition Extinguishant release output Extinguishant release output Extinguishant release duration Extinguishant release flooding time Extinguishant output end-of-line Monitored Inputs Number of monitored inputs and type Thresholds End-of-line resistor value Controls & Indicators Status Display Unit LCD 'Access Level 1' Menus: LCD 'Access Level 2' Menus: Controls (2 x keyswitches) Controls (push buttons) Indicators (LEDs)	e 128 x 64 pixel graphic LC 128 x 64 pixel graphic LC Display Faults • Display Display Faults • Display Display Faults • Display Accessed • Manual 0nj Menu • Silence Internal Accept • Extinguisher R General Fire • Fire Zone • Xinguishant Released • Manual 0nj • Manual & • Sounder Fault • Floodin	6 (Fire, Local Fire, Extract Fan, 1st Stage, 2nd Stage, Fault) 30Vdc, 1A max. 30Vdc, 1A for 5mins. 30Vdc, 1A for 5min

Dimensions (W x H x D) Dimensions Back box = 439mm x 276mm x 70mm approx. (metal); Lid = 467mm x 29mm x 29mm approx. (plastic) Weight 4.65kg (without batteries)



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