

## LPCB Certified EP203/CON 3 Zone Automatic Extinguisher Panel

Introducing the EP203/CON 3 zone automatic extinguisher panel from Context Plus.

LPCB certified to EN 12094 part 1 (Fixed Firefighting Systems - Components for Gas Extinguishing Systems) and EN54 parts 2 & 4, 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 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 Ref. 176c  
to EN 12094-1 (2003)  
EN 54-2/A2 (2007)  
EN 54-4/A2 (2006)



0832-CPD-0794

Context Plus systems are certified and comply with the quality requirements specified in the standards.

### Key Features

- 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 overleaf)
- 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



## 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.

Fitting an extinguishing system clearly requires a degree of expertise. However, the EP203/CON 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.

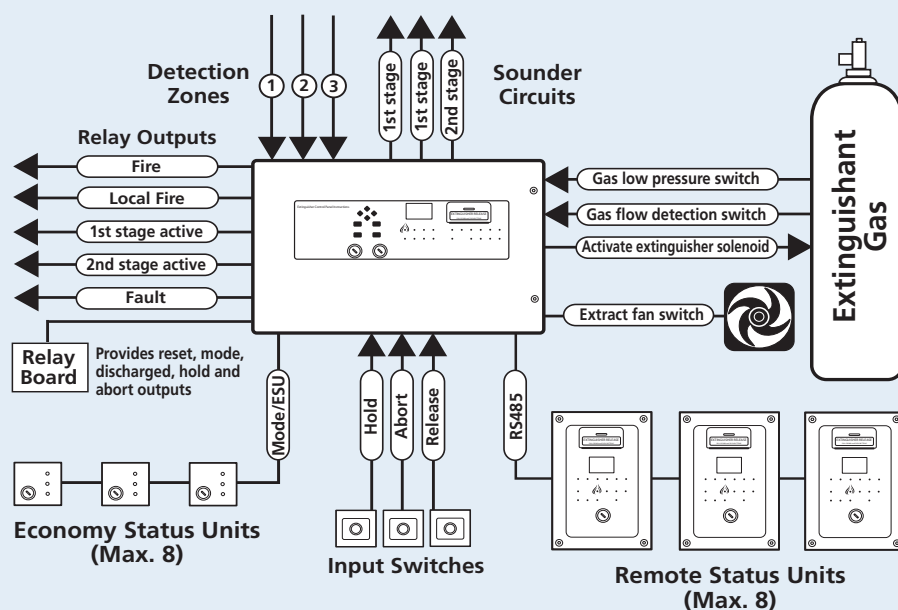
Despite the EP203/CON's ease of programming, it is one of the most powerful extinguisher panels on the market. It includes three conventional detector circuits and three conventional sounder circuits (2 x 1st stage, 1 x 2nd stage), all of which are line monitored for open and short circuit faults. Any 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.

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/CON 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/CON ideal for use in computer rooms, telecommunication centres, archive storage areas, chemical plants, generator rooms, museums and more.

## An overview of the EP203/CON's inputs and outputs





## Products & Descriptions

### 3 Zone Automatic Extinguisher Panel

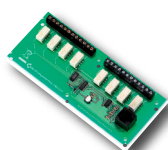


Part No: EP203/CON

Includes all of the circuitry for controlling the extinguishant release, a pull-down manual release button, a 128x64 pixel LCD display plus all of the features listed.

W467 x H293 x D100 mm

### Output Expansion Relay Board



Part No: EP212

Mounts inside the EP203 panel to provide volt-free changeover relay contacts for reset, mode, discharged, hold and abort. Max. 1 per EP203.

W162 x H70 x D20mm

### Flush Mounting Remote Status Unit



Part No: EP210F

Includes a status LCD, manual release and mode (auto/manual) switches. Max. 8 EP210F/EP210S per EP203. Weatherproof enclosure also available, order code BF359/1.

W175 x H250 x D53mm

### Surface Mounting Remote Status Unit



Part No: EP210S

Includes a status LCD, manual release and mode (auto/manual) switches. Max. 8 EP210F/EP210S per EP203. Weatherproof enclosure also available, order code BF359/1.

W160 x H240 x D51mm

### Single Gang Economy Status Unit



Part No: EP211

Includes a keyswitch operated mode (auto/manual) switch and three status LEDs. Max. 8 per EP203.

W87 x H87 x D35mm

### System Line Terminator



Part No: EP214

Allows the EP203's extinguishant release output to be terminated to a gas release solenoid. Max. 2 per EP203 (one EP214 is supplied with the EP203).

W55 x H55 x D22mm

### Extinguishant Hold Off/Abort Buttons



Part No: CP150ALB (Abort)  
CP200HLB (Hold)

Easy to operate buttons that can be used to delay/hold off or cancel/abort the extinguishant release. Order CP150ALB for Abort or CP200HLB for Hold. Hinged protective covers are supplied with both.

W89 x H93 x D59mm (without cover)

### Yellow Extinguishant Release Call Point



Part No: CP100RLR

A surface mounting call point that can be used to remotely trigger the EP203's extinguishant release sequence. Supplied with a hinged protective cover.

W89 x H93 x D59mm (without cover)

### EP215 IP66 Extinguishant Hold Off/Abort Buttons



Part No: EP215

An IP66 rated button that can be used to delay (hold off) or cancel (abort) the extinguishant release sequence depending on how it is connected.

W93 x H93 x D88mm

### BF372 Yellow Extinguishant Release Call Point, Surface



Part No: BF372

Certified to EN54 Part 11 (LPCB/VdS). Ideal for use with Context plus EP203 Automatic Extinguisher

Ordering Code  
MCP3A-Y0005G-14C

W93 x H89 x D60mm

## COMMISSIONING & ENGINEERING FUNCTIONS

- **Zone selection:**  
Selects the zone combination that starts the extinguishant release sequence
- **Extinguishant delay:**  
Sets the countdown duration before extinguishant release
- **Extinguishant duration:**  
Sets the duration of the firing signal to the extinguishant output
- **Flooding time:**  
Sets the duration for the release of extinguishant
- **Extract option:**  
Enables/disables the ventilation extract option
- **Extract time:**  
Sets the duration for the ventilation extract fan operation
- **Sounder delay:**  
Sets the delay duration before the fire sounders are activated
- **Remote status unit learn:**  
Finds all remote status units and updates the panel's database
- **Extinguishant output EOLS:**  
Selects the number of extinguisher circuit terminations
- **Mode exceptions:**  
Selects the default setting mode when the mode input is in Fault and/or Disabled
- **Earth fault:**  
Disables/enables the panel's earth fault monitoring circuitry
- **Manual release mode:**  
Selects either delayed or immediate release of extinguishant
- **Zone trigger:**  
Enables a short circuit condition on the three detection zones
- **Clean start:**  
Clears the panel's memory back to its default factory settings
- **Walk test:**  
Puts detection zone(s) into walk test mode
- **Test relays:**  
Tests the panel's auxiliary relay outputs
- **Test sounders:**  
Tests the panel's sounder circuits
- **Monitoring:**  
Applies a constant monitoring voltage
- **Show PSU stats:**  
Displays the status of the panel's power supply & standby battery

Also available  
for your gas  
extinguishing  
installations:



Bells



Sounder/  
Beacons



Xenon  
Beacons

## EP203/CON 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
Battery charge current	0.7A
Earth fault monitoring	YES
Mains supply/battery charger monitored for failure	YES
Batteries monitored for disconnection and failure	YES
Quiescent current drain on mains fail	40mA approx.

### Detector Circuit Specification

Number of conventional detector circuits	3 @ 21-28Vdc
Line monitored for open and short circuit faults	YES
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	6K8 ohm $\pm$ 5%, 0.25W

### Sounder Circuit Specification

No. of conventional circuits	3 (two x 1st stage, one x 2nd stage)
Line monitored for open and short circuit 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 $\pm$ 5%, 0.25W

### Auxiliary outputs

No. of auxiliary outputs *	6 (Fire, Local Fire, Extract Fan, 1st Stage, 2nd Stage, Fault)
Relay contact rating	30Vdc, 1A max.

\* Note that 5 additional relay outputs (Reset, Mode Switch, Discharged, Hold, Abort) are available on the EP212 relay output expansion card

### Extinguishant release outputs

Extinguishant release output	21-28Vdc, rated at 1A for 5mins.
Extinguishant release time delay	Adjustable 0-60 seconds (1 second steps)
Extinguishant release duration	Adjustable 1-300 seconds (1 second steps)
Extinguishant release flooding time	Adjustable 60-1800 seconds (1 second steps)
Extinguishant output end-of-line	"Terminator" circuitry EOL (Part No. EP214)

### Monitored Inputs

Number of monitored inputs and type	6 (Manual Release, Flow Switch, Low Pressure, Mode, Hold, Abort)
Thresholds	8k to 2k ohms (normal); 1.8k to 200 ohms (active), 150 to 0 ohms (short circuit)
End-of-line resistor value	6K8 $\pm$ 5%, 0.25W

### Controls & Indicators

Status Display Unit	128 x 64 pixel graphic LCD unit, two-colour backlight
LCD 'Access Level 1' Menus:	• Display Faults • Display Disablesments • Zones in Test • Lamp Test • Alarm Counter
LCD 'Access Level 2' Menus:	• Display Faults • Display Disablesments • Zones in Test • Lamp Test • Alarm Counter • Set Time/Date • Event Log
LCD 'Access Level 3' Menus:	• Display Faults • Display Disablesments • Zones in Test • Display RSUs • Disablesments • Commissioning • Engineering
Controls (2 x keyswitches)	• Accessed • Manual Only or Manual & Automatic
Controls (push buttons)	• Menu • Silence Internal Sounder • Control Panel Reset • Silence/Resound Sounders • Scroll up • Scroll down • Escape
Indicators (LEDs)	• Accept • Extinguisher Release (housed in yellow casing).
Indicators (LEDs)	• General Fire • Fire Zones (x3) • General Disablement • Zone Fault/Disable/Test (x3) • Hold • First Stage Output • Release Imminent (x2) • Extinguishant Released • Abort • Disablesments (Extinguishant Release, Manual Release, First Stage Output, Second Stage Output, Sounder)
Indicators (LEDs)	• Manual Only • Manual & Automatic • Supply Present • PSU Fault • Accessed • Test • General Fault • System Fault • Delays
Indicators (LEDs)	• Sounder Fault • Flooding Zone Fault • Low Press Fault.
Internal control (push button)	Access Level 3 Switch (located on Main Control PCB)

### Dimensions (W x H x D)

Dimensions	Back box = 439mm x 276mm x 70mm approx. (metal); Lid = 467mm x 293mm x 29mm approx. (plastic)
Weight	4.65kg (without batteries)

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