FIREDEX 2200

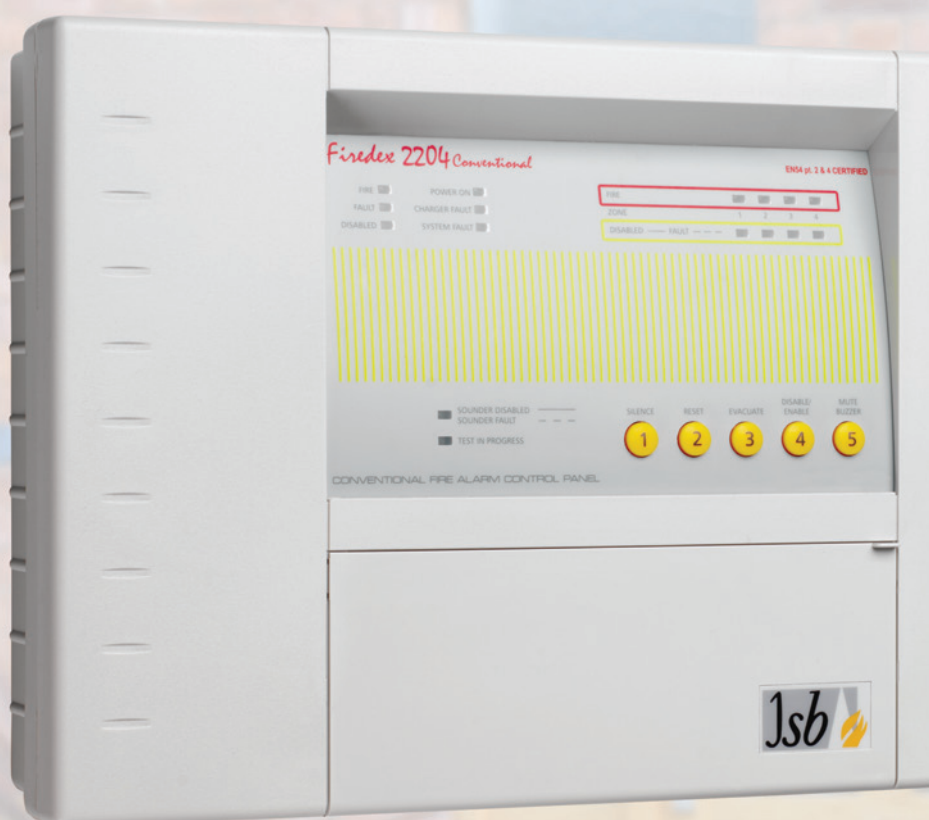- **Flexible, high specification system**
- **Choice of 1, 2, 4 or 8 zones**
- **Simple "one-shot" auto-reset user test facility**
- **Approved to EN54**
- **Maintenance free poly switch circuit protection, with auto reset**
- **Class change and programmable fire/fault relay as standard**
- **Custom configured versions available to meet specific project requirements**

The Firedex 2200 range of panels provide a solution to any conventional system requirement. The advanced features include a simple "one-shot" user test facility, class change contacts, battery voltage alarms and charger temperature compensation, all included as standard to ensure ease of use and high reliability. Attention to detail is emphasised by the neat log book holder feature, allowing essential records to be stored close to hand, ready for quick reference. For larger installations, custom configuration of the panels offers even greater flexibility, allowing project specific requirements to be easily met, in a competitive and cost effective package.

SYSTEM OVERVIEW

- Flexible, high specification conventional panel, suitable for a wide range of building types and sizes
- Choice of 1, 2, 4 or 8 zone panels
- Supplied complete with battery for 24 hour standby. Battery charger has temperature compensation as standard
- Matching 8 zone repeater panel, for use with 8 zone and 2/4 zone configured panels

USER INTERFACE

- Stylish and robust compact panel with simple 5 button keypad control of all functions
- Simple "one-shot" weekly user test with auto-reset facility
- Comprehensive power, fire and fault LED indicators and integral piezo buzzer for on-board fire or fault indication
- Battery high/low voltage alarm facility
- Neat log book storage facility behind hinged door

DETECTION CAPACITY

- Up to 20 detectors per zone. End of line monitoring devices must be fitted and are supplied as standard
- Detector circuits are monitored for open circuit, short circuit and detector removal

ALARM CAPACITY

- Two separate alarm lines on 1, 2 and 4 zone panels. Maximum rated load of 150mA (1/2 zone) or 400mA (4 zone) per line
- Four separate alarm lines on 8 zone panel. 500mA maximum load per line
- Alarm lines are monitored for open circuit and short circuit faults
- Additional alarm line facilities on custom 2 and 4 zone configured panels

DIMENSIONS
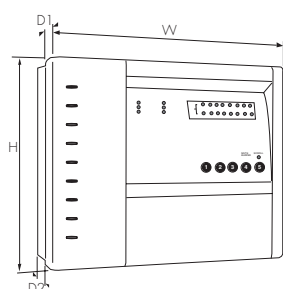
Surface	H (mm)	W (mm)	D (mm)		
1 zone	212	260	72		
2/4/8 zone	270	332	90		

Recessed	H (mm)	W (mm)	D1 (mm)	D2 (mm)	Cut-out (mm)
2/4/8 zone	270	332	45	77	265 x 327

SYSTEM FUNCTIONALITY

- Normal and supervisor mode facility. Supervisor mode protected by 4 digit security code to prevent unauthorised use
- Supervisor mode provides access to test mode, where a "one-shot" test facility can be initiated by the user. When in operation, the user has a period of time in which to put a call point into fire condition, after which the system automatically resets and returns to normal mode
- Commissioning walk test feature permits the system to be easily tested after installation and prior to handover. The panel automatically resets and returns to normal operation after a detection device has been tested. Each device can then be tested in turn via the same procedure
- Supervisor mode also provides facility to disable the following for maintenance or other purposes
  - each detection zone independently
  - the alarm circuits
  - the fire/fault output
- Non-latching zone facility can be specified on custom configured versions (except 1 zone panel). Enables the direct interconnection of panels in a simple network
- An alarm line delay feature can be specified on custom configured versions (except single zone panel). Preset delays of 30 seconds to 2 minutes can be programmed at the factory. Zone LED flashes when fire signal is received and delay is in operation. Any fire signal from a manual call point immediately operates the alarm.

INTERFACE OPTIONS

- Class change input facility. Terminals provided for switching of alarm circuits to indicate school/college class change
- Programmable 5A 24V DC relay for remote signalling of fire or fault conditions. Selectable by jumper link
- Auxiliary 24V DC output power supply provided as standard for 8 zone panel and 2 and 4 zone configured panels

CUSTOMISED PANEL OPTIONS

- Custom configured versions available of 2, 4 and 8 zone panels
- Project specific configuration includes additional sounder circuits for 2 and 4 zone panels with pulsing tone options, alarm delays, programmable zone non-latching/non-driving feature and additional relay outputs. See Options section for full list of custom configuration facilities or contact Fire Technical Support for full details and to discuss project specific requirements. Tel: 01302 303350

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MORE

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REPEATER PANEL

- Repeater matches the style and appearance of main control panels
- Facility for signalling to repeater panel provided as standard on 8 zone panel
- Specially configured versions of 2 and 4 zone panels available for use with a repeater panel
- Displays essential information at other key locations in a large building/site
  - Zone fire and fault conditions
  - Test mode in operation
  - Zones or alarm lines in disabled mode
- Repeater panel requires only a single pair of wires to receive signals from main control panel, plus local mains power supply, reducing cost of installation

INSTALLATION NOTES

- A full set of Installation and User Instructions is supplied with each panel to assist the installer to carry out the work efficiently and safely and the user to perform routine tests
- Panels are wall mounted. Surface mounted via 4 x screw fixing holes on back of housing. Use drill template supplied. Recessed mounting requires appropriate cut-out for steel semi-recessing box, which is screw fixed to wall. Panel is then screwed to back box via 4 x screw fixing holes (Note: Single zone panel cannot be recessed)
- Mains power supply cable must be routed via the designated 20mm conduit entry on the top or rear of the housing. The mains terminal block is provided with maintenance free poly switch protection
- Conduit entries are provided on the top of the housing for zone, alarm and output cables. Blanking plugs are supplied for un-used entry holes
- Rear entry apertures are also provided for back entry
- Standby batteries connected via push-on terminal connectors
- End of line (EOL) devices are supplied with the panel and must be fitted at the end of each detector and alarm circuit wiring
- Front cover is screw fixed. System logbook is stored behind hinged door
- Walk test feature permits single person commissioning (installer) for fast and efficient commissioning prior to handover
- See page 136 for full details of system design
- Cooper Lighting and Security offer a commissioning, service and maintenance facility. Please contact the Service Department - Tel: 01302 303352, E-mail: service@cooper-ls.com

Log book conveniently stored within panel

Ample internal space for cable entry and termination

TECHNICAL SPECIFICATION

Panel catalogue number	FX2201	FX2202	FX2204	FX2208
Standards	EN54-2:1998 & EN54-4:1998 EN50130-4:1996 EN500081-1:1992 & EN61000-2-2:1994	EN54-2:1998 & EN54-4:1998 EN50130-4:1996 EN500081-1:1992 & EN61000-2-2:1994	EN54-2:1998 & EN54-4:1998 EN50130-4:1996 EN500081-1:1992 & EN61000-2-2:1994	EN54-2:1998 & EN54-4:1998 EN50130-4:1996 EN500081-1:1992 & EN61000-2-2:1994
Number of zones	1	2	4	8
Detectors per zone	20	20	20	20
Number of alarm circuits	2	2	2	4
Alarm circuit load	150mA per circuit 0.3A total	150mA per circuit 0.3A total	400mA per circuit 0.8A total	500mA per circuit 2A total
End of line devices	Detection circuits: EOLM-1 monitoring unit Alarm lines: 6.8K⎮ resistor	Detection circuits: EOLM-1 monitoring unit Alarm lines: 6.8K⎮ resistor	Detection circuits: EOLM-1 monitoring unit Alarm lines: 6.8K⎮ resistor	Detection circuits: EOLM-1 monitoring unit Alarm lines: 6.8K⎮ resistor
Auxiliary fire signal/fault output	5A 24V DC single pole changeover contacts	5A 24V DC single pole changeover contacts	5A 24V DC single pole changeover contacts	5A 24V DC single pole changeover contacts
Auxiliary DC output	24V DC fused. 30mA⁻	24V DC fused. 30mA⁻	24V DC fused. 30mA⁻	24V DC fused. 30mA
Repeater port	No	No*	No*	Yes
Mains input voltage	230V AC -10% +15%	230V AC -10% +15%	230V AC -10% +15%	230V AC -10% +15%
System operating voltage	24V DC	24V DC	24V DC	24V DC
Standby duration	24 hours	24 hours	24 hours	24 hours
Battery (sealed lead acid)	1 x 3.2AH	1 x 3.2AH	1 x 3.2AH	2 x 3.2AH
Recharge period	24 hours	24 hours	24 hours	24 hours
Panel construction	Polycarbonate housing & back box	Polycarbonate housing & back box	Polycarbonate housing & back box	Polycarbonate housing & back box
Cable entries	Top: 6x20mm entries with blanking plugs Rear cable entry aperture	Top: 12x20mm entries with blanking plugs Rear cable entry aperture	Top: 12x20mm entries with blanking plugs Rear cable entry aperture	Top: 12x20mm entries with blanking plugs Rear cable entry aperture
Environmental rating	IP30. -5°C to +40°C Humidity 75% max (non-condensing)	IP30. -5°C to +40°C Humidity 75% max (non-condensing)	IP30. -5°C to +40°C Humidity 75% max (non-condensing)	IP30. -5°C to +40°C Humidity 75% max (non-condensing)

Note: * To use 2 or 4 zone panels in conjunction with a repeater panel, order repeater configured version (eg FX2204CR)
⁻ Configured versions only

OPTIONS

- **Repeater panel**
  8 zone repeater panel with 24 hour standby, providing local indication of essential status information. Suitable for use with standard 8 zone main panel and configured versions of 2/4 zone main panels.

- **Repeater configured panels**
  Specially configured versions of 2 and 4 zone main panels, required for use in conjunction with repeater panel

- **Custom configured panels**
  Project specific custom configuration is available on request, for 2, 4 and 8 zone panels. Custom options available include:
  - Additional sounder circuits
  - Programmable sounder pulsing
  - Programmable alarm delay
  - Programmable zone latching feature
  - Non-latching/non-driving outputs
  - Additional fault and configurable volt free contacts

  To discuss specific custom requirements, contact our Fire Technical Support and Application department
  Tel: 01302 303350, E-mail: technical@cooper-ls.com

- **Semi-recessing back box**
  Steel back box to semi-recess main and repeater panels (except single zone)

Optional recessing back box

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SYSTEM ANCILLARIES

Callpoints
Page 78

Conventional sounders
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Detectors
Page 82

Beam detector
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CATALOGUE NUMBERS

Cat. No.	Number of zones	Standby duration (hrs)	Weight (kg)
Panels			
FX2201	1	24	5.1
FX2202	2	24	5.2
FX2204	4	24	5.8
FX2208	8	24	6.0
Panels configured for use with a repeater			
FX2202CR	2	24	5.8
FX2204CR	4	24	6.0
Repeater panel			
FXRP2200	8	24	6.0

CATALOGUE NUMBER

Cat. No.	Description
Accessories	
FX22003300MB	Steel back box for semi-recessing of FX2202/4/8

Mains input
L N E

Zone 1 ·············· Zone 4
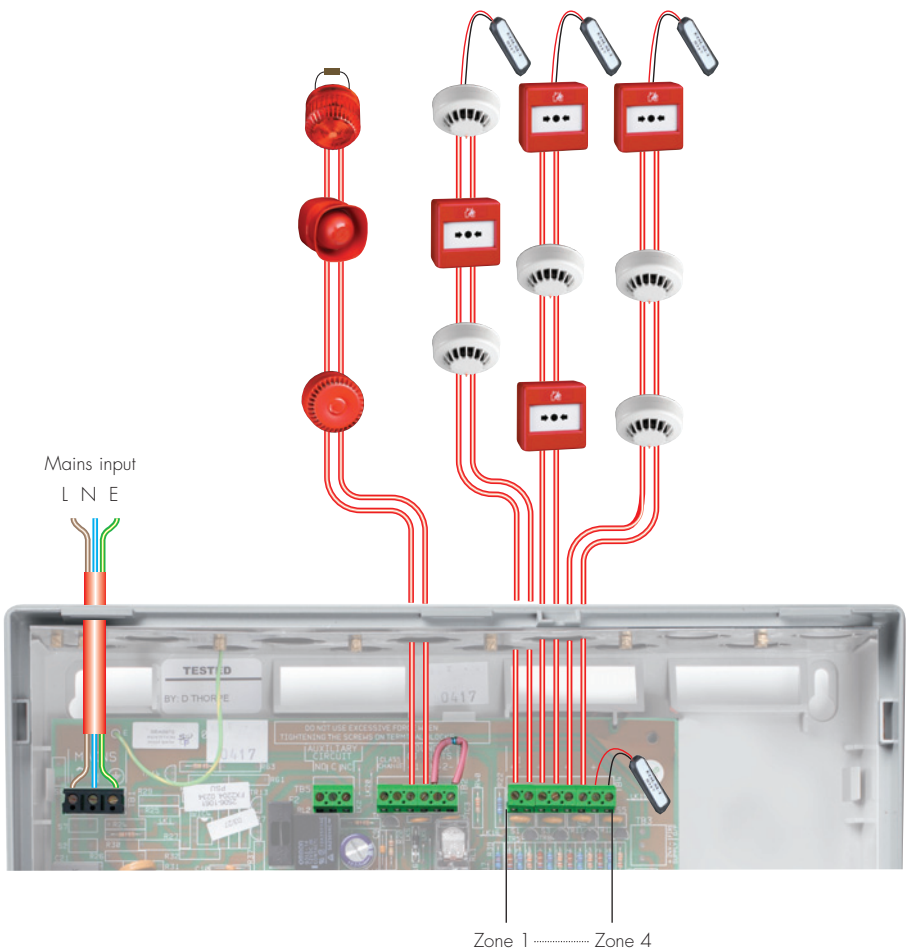
Typical wiring configurations