

MF200 & MF400

- **Competitively priced**
- **Choice of 2 or 4 zone panels**
- **Designed to comply with EN54**
- **Easy to operate**
- **One man walk test facility**
- **Supplied complete with battery and end of line devices**

The MF200 and MF400 range of conventional fire panels offer a competitive solution for smaller installations. Easy to install and operate, the panels are designed to provide fire detection and alarm facilities in buildings where the basic elements of protection to meet BS5839 are required. Available as either 2 zone or 4 zone panels, up to 20 detectors per zone can be connected. MF range panels are conveniently supplied complete with end of line devices and batteries offering 24 hours standby as standard, with the option of 72 hours on the 4 zone version. One man walk test and class change facilities, along with 24V remote signalling fire and fault outputs augment a value for money range.



MF200 & MF400

SYSTEM OVERVIEW

- Basic fire detection and alarm system, suitable for smaller installations
- Choice of 2 zone or 4 zone panels
- Supplied complete with battery for 24 hour standby as standard. Option of 72 hour standby available on 4 zone panel

USER INTERFACE

- Attractive compact panel with easy to use 5 button keyboard to control all functions
- Comprehensive power, fire and fault LED indicators and integral piezo buzzer for on-board fire or fault indication

DETECTION CAPACITY

- Up to 20 detectors per zone. End of line monitoring devices must be fitted and are supplied as standard
- No more than 5 photo thermal detectors should be connected to any one zone of any MF200 or MF400 panel
- Detector circuits are monitored for open circuit, short circuit and detector removal

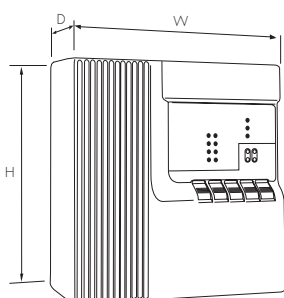
ALARM CAPACITY

- Two separate alarm lines, each with a maximum rated load of 375mA
- Alarm lines are monitored for open circuit and short circuit faults

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 zones can be tested individually or in any combination
- One man walk test feature permits each manual call point and detector on the zone(s) in test mode to be put into fire condition and activates the alarms for 2 seconds. Panel automatically resets the zone(s) 10 seconds after each device has been tested. A fire condition received from a zone not in test mode results in an immediate alarm, overriding the test mode
- Supervisor mode also provides facility to disable/isolate the following for maintenance or other purposes
 - each detection zone independently
 - the alarm circuits
 - the remote signal outputs

DIMENSIONS



H (mm)	W (mm)	D (mm)
300	300	74

INTERFACE OPTIONS

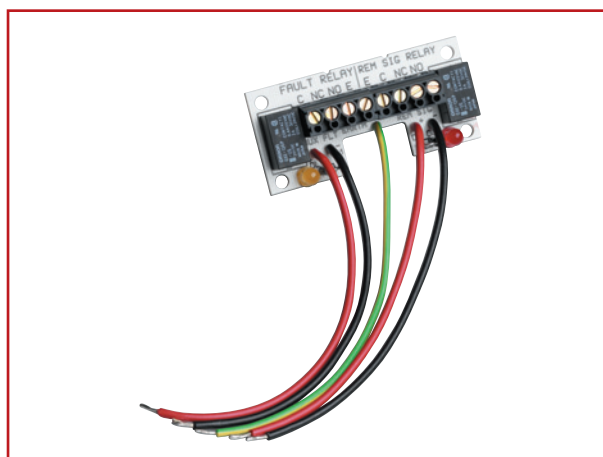
- Class change input facility. Terminals provided for switching of alarm circuits to indicate school/college class change
- 24V outputs provided for remote signalling of fire and fault conditions
- Optional relay board available (MAR424) to convert fire and fault signals to 1A relay outputs
- Auxiliary 24V DC output power supply provided as standard

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 via keyhole slot mounting holes on back of housing
- Mains power supply cable must be routed via the designated 20mm conduit entry on the top or bottom of the housing, or via the rear cable entry slot. The mains terminal block is provided with fuse protection
- A total of 10 x 20mm conduit entries are provided on the top of the housing for zone, alarm and output cables. Blanking plugs are supplied for un-used entries
- Standby battery 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 retained by anti-tamper screws
- 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

OPTIONS

- **MAR424**
Remote fire and fault relay pcb. Fitted internal to panel housing. Converts 24V remote signalling outputs to 1A relay outputs



TECHNICAL SPECIFICATION

Standards	EN54-2:1998 & EN54-4:1998 EN50130-4:1996 EN500081-1:1992 & EN61000-2-2:1994
Number of zones	2 - MF200 4 - MF400
Detectors per zone	20
Number of alarm lines	2
Alarm circuit load	375mA per circuit, 750mA total
End of line devices	Detection circuits: 22K Ω resistor Alarm lines: 22K Ω resistor
Auxiliary fire signal output	24V DC pull to OV. Max 10mA
Auxiliary fault output	24V DC pull to OV. Max 10mA
Auxiliary DC output	24V DC fused, 32mA (up to 100mA at the expense of alarm load)
Mains input voltage	240V AC +10%-15%
System operating voltage	24V DC
Standby duration	24 hours (72 hours on MF400-72)
Battery	1 x 4AH sealed lead acid battery (1 x 7AH on MF400-72)
Recharge period	48 hours (80% in 24 hours)
Panel construction	ABS/Polycarbonate housing. Steel back box.
Cable entries	Top: 10 x 20mm conduit entries Bottom: 1 x 20mm conduit entry (mains cable) Back: 1 x mains cable entry slot
Environmental rating	IP30. -5°C to +40°C. Humidity 75% max (non-condensing)

CATALOGUE NUMBERS

Cat. No.	Number of zones	Standby duration (hrs)	Weight (kg)
Panels			
MF200	2	24	4.8
MF400	4	24	4.8
MF400-72	4	72	6.0

Cat. No.	Description
Optional accessories	
MAR424	Fire and fault relay PCB

SYSTEM ANCILLARIES

Callpoints
Page 78



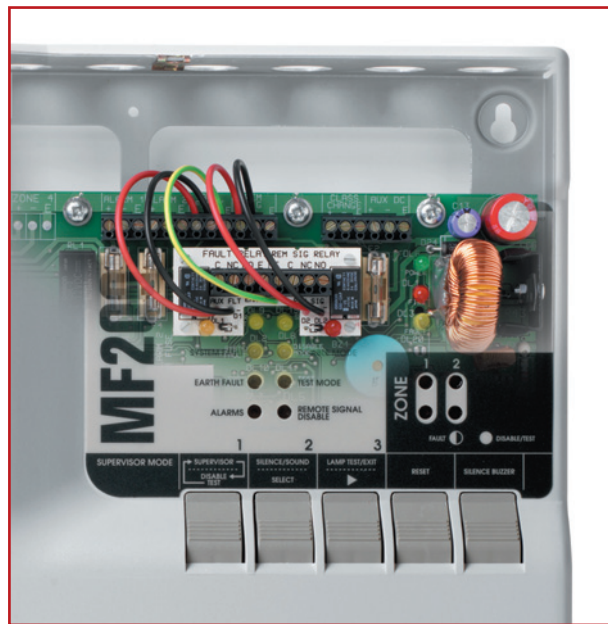
Conventional sounders
Page 75



Detectors
Page 82



Beam detector
Page 94



MAR424 fits inside MF200 and MF400 panels