

Multi-IFAX Remote Control and Indicator Panel

Installation Instructions

1.	General.....	2
2.	Precautionary Notes.....	2
3.	Cable Type and Earthing.....	2
4.	Fitting The Remote Control Panel.....	3
5.	Remote Control Panel Address Table.....	3
6.	Panel Printed Circuit Board (Section).....	4
7.	Re-Powering the Multi-IFAX and Testing the Remote Control Panel.....	4
8.	Remote Control Panel Control Facilities.....	5
9.	Remote Control Panel Specification.....	5

Do not attempt to install the Remote Control Panel Before carefully reading all information contained in these instructions.

The information contained in this document is subject to change without notification at the discretion of the Company.

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1. General

The Remote Control Panel can be used to provide full replication of all Fire Alarm System indications and messages shown on a Multi-IFAX Control Unit.

Additionally, the Remote Control Panel can allow the system to be fully controlled from a remote location.

The Remote Control Panel should always be sited in an area of low fire risk, and to be readily accessible.

2. Precautionary Notes

Do not attempt to install, operate or service the Remote Control Panel before reading this information.

This equipment is not guaranteed unless the complete installation is fitted and commissioned by an approved and competent person or organization in accordance with BS 5839: Part 1: 1988, or other applicable national standards.

The equipment must be installed and maintained by a skilled and technically competent person.

These instructions must be followed carefully to ensure that no damage occurs to the Remote Control Panel or its associated Multi-IFAX Control Equipment.

The connection of a Remote Control Panel should not be undertaken before its associated Multi-IFAX Control Unit has been fully commissioned.

The Remote Control Panel contains sensitive electronic components that can be damaged by static charge, and suitable precautions must be taken when handling the electronic assembly.

The panel may be adversely affected by extreme environmental conditions.

The installation location should be clean and dry, and not subject to any high level of vibration or shock.

In general, environmental ambient temperature should be in the range 5°C to 40°C, and the relative humidity 0% to 95% (non-condensing).

As with all electronic equipment, the Remote Control Panel can be damaged or operate erratically if subjected to lightning induced transients or severe electrical interference.

Proper earthing precautions must be taken to reduce susceptibility, and use of overhead or external aerial wiring should be avoided.

Make cable entry to the Remote Control Panel via either of the back-plate access holes.

Do not attempt to complete any connections to the Remote Control Panel whilst its associated Multi-IFAX Control Unit is energized.

3. Cable Type and Earthing

Interconnection between the Remote Control Panel and its associated Multi-IFAX Control Unit requires a 4-core cable.

To ensure compliance with current EMC directives and the requirements of BS5839: Part 4: 1988, it is essential that electrostatically screened or metal-sheathed cable is used, and that the earth screen/sheath, is continuous throughout the length of cable run.

The cable electrostatic earth screen/sheath must be directly and securely terminated to the Multi-IFAX Control Unit metalwork at its point of entry.

This should be achieved via a conductive cable gland or, with a minimum length sleeved tail end connected to the earth terminal.

A core section of 1.0mm² is suitable for an interconnection distance of at least 1.2Km between the Remote Control Panel and associated Multi-IFAX Control Unit.

The cable should be of the fire resistant type, MICC, FP200, FTZ 2E, etc meet suitable specifications, and offer effective screening provided they are properly terminated at the Multi-IFAX Control Unit.

It is also advisable (and may be a Fire Alarm System Specification requirement), to ensure that where cables include a non-conductive outer-sheath, this should be of LSF (Low Smoke and Fume) classification.

4. Fitting The Remote Control Panel

Remove the four-positdrive retention screws and carefully separate the Remote Control Panel cover assembly from its wall mounting backplate.

Note: On no account handle the components on any of the Remote Control Panel electronic board, and ensure that the assembly is carefully stored in a safe, clean, and dry location until required.

Holding the Remote Control Panel backplate in the desired position (ideally at a height of 1.4 - 1.5 metres to the base of the housing), carefully mark-through the location of the four fixing holes onto the mounting surface.

Drill and plug the four fixing holes and securely fix the backplate in position.

Make-off the 4-Core interconnection cable to the Remote Control Panel backbox.

Make sure that the tail ends are left sufficiently long (280mm) to route neatly to their terminal location on the Remote Control Panel cover assembly.

Make-off the 4-Core interconnection cable at the Multi-IFAX Control Unit housing.

Make sure that the tail ends are left sufficiently long (700mm) to route neatly to their terminal location on the 'IFAX Interface Module' (MA-05-046) found towards the bottom-left-hand side of the back plate

Note: The earth screen/sheath of the cable must be directly and securely terminated to the Multi-IFAX case metalwork at its point of entry.

This should be achieved via a conductive cable gland or with a minimum length sleeved tail end connected to the earth terminal.

Ensure that all cable tail ends are sleeved and clearly identified, paying particular attention to polarity.

Before connecting the cable at either end, check the wiring for continuity and insulation.

Set an address for the Remote Control Panel (in the range 1 - 14) via the binary code switch 'S1' located towards the top left-hand side of the PCB. Refer to illustration on page 4.

5. Remote Control Panel Address Table

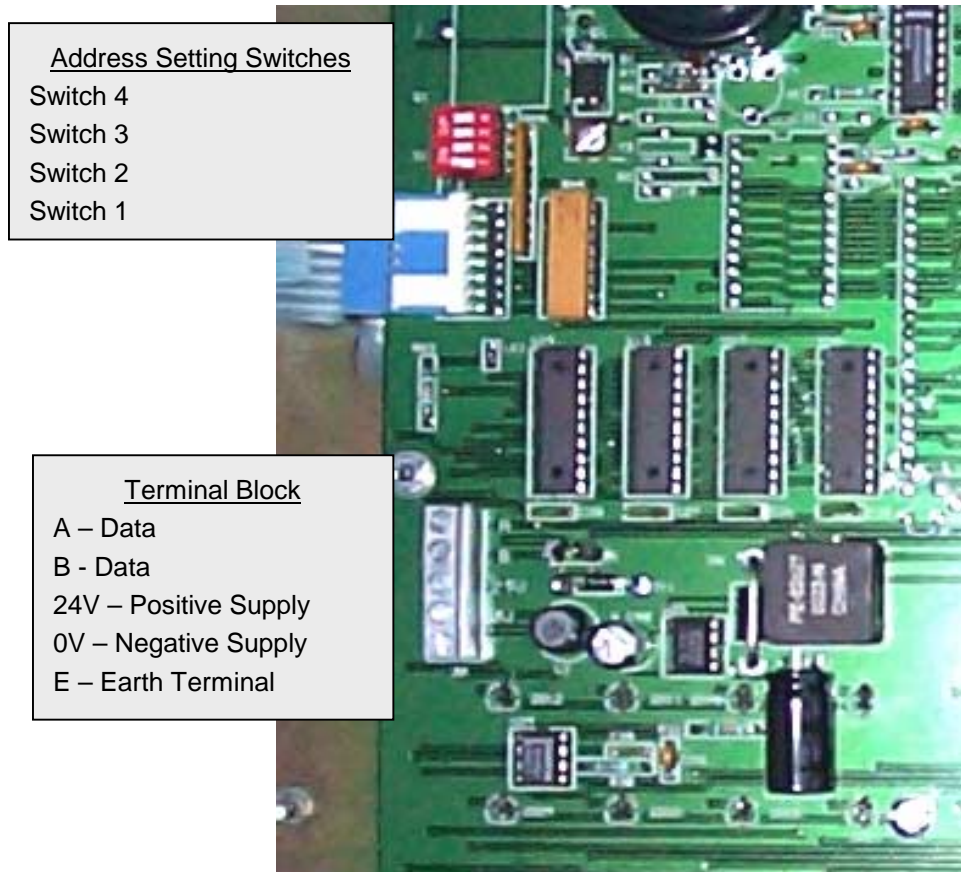
Panel Address	Switch 1	Switch 2	Switch 3	Switch 4
1	ON	OFF	OFF	OFF
2	OFF	ON	OFF	OFF
3	ON	ON	OFF	OFF
4	OFF	OFF	ON	OFF
5	ON	OFF	ON	OFF
6	OFF	ON	ON	OFF
7	ON	ON	ON	OFF
8	OFF	OFF	OFF	ON
9	ON	OFF	OFF	ON
10	OFF	ON	OFF	ON
11	ON	ON	OFF	ON
12	OFF	OFF	ON	ON
13	ON	OFF	ON	ON
14	OFF	ON	ON	ON

Taking care to ensure that the cable tails do not obstruct the Remote Control Panel PCB assembly, terminate the cable ends to the connector block on the PCB.

Carefully re-fit and secure the Remote Control Panel cover assembly to its wall mounting backplate.

At the Multi-IFAX Control Unit, route the four tail ends neatly across the backplate and terminate to the identically marked connection locations ('A', 'B', '24V' & '0V') on the 'Multi-IFAX Interface Module' (MA-05-046).

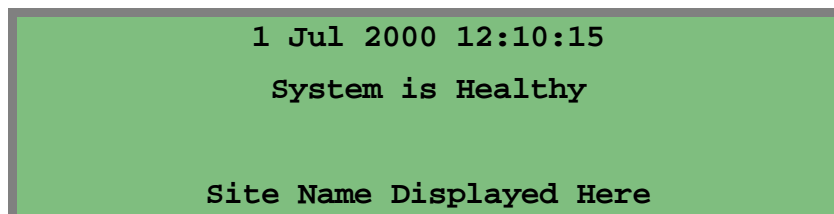
6. Panel Printed Circuit Board (Section)



7. Re-Powering the Multi-IFAX and Testing the Remote Control Panel

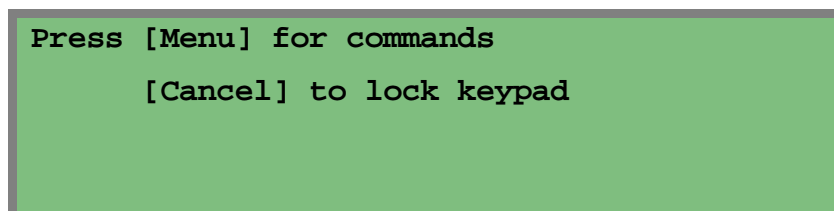
Re-apply power to the Multi-FAX Control Unit.

Verify that a few seconds after system configuration, the Multi-IFAX enters the quiescent condition (if the installation is in order), that the 'Supply On' indicator is lit, and the text display shows the clock calendar indication similar to that below.



Ensure that these indications are replicated at the Remote Control Panel.

At the Remote Control Panel, enter the panel access code, and verify that the display shows a message similar to that below.



Press the [Menu] key, and check that the display shows a message similar to that below.

Menu:	[6] Setup
[1] Disable	[9] Other
[3] View	
[5] Test	[Cancel]

Press keys [5] followed by [3] and verify that the display shows the message below, and that all front panel LED's illuminate.

LAMP TEST
[Cancel]

Press the [Cancel] key until the display returns the message similar to that at (2) above.

This concludes the basic functional testing and commissioning of the Remote Control Panel and of communications with its Multi-FAX Control Unit.

8. Remote Control Panel Control Facilities

Dependent on the Fire Alarm System specification, it may be necessary to alter the Multi-FAX configuration data to customise the control facilities that the Remote Control Panel provides.

If this is the case, this work should be undertaken next, before concluding any further Remote Control Panel commissioning tests that may be required.

9. Remote Control Panel Specification

Dimensions	Surface Mounting - 340(w) x 300(h) x 38(d) [M-A Order Code 05-102] Flush Mounting - 360(w) x 320(h) x 38(d) [M-A Order Code 05-103]
Material & Finish	1.2mm Sheet Steel, Gloss White Powder Paint, BS00E55
Display	4 x 40 Character, LED Back-lit LCD
Indicators	System On, Supply Fault, Remote Signal Activated, Remote Signal Fault/Disabled, Sounders Activated, Sounders Silenced, Sounders Fault/Disabled, Fire, Warning, Fault, Test, Delays Enabled, System Fault, 48 Zonal LED's
Control Keypad	Polyester Keypad/Graphic Label, Tactile Keys with audible feedback. 0...9, Alarm Silence/Resound, Reset, Panel Silence, Yes/Enter, No/Cancel, Next/Menu
Interface Ports	EIA-485 (ESD Protected, half-duplex) – Multi-IFAX Communication, 4800bps [Optional Extra] EIA-232 (ESD Protected) – Local Printer Port, 4800Baud
Connections	4-Core (Including Power)
Maximum Cable Length	2Km
Input Supply Voltage	18 to 30VDC, The unit is protected against reverse input supply polarity
Supply Current (Quiescent)	50mA @ 24VDC [Typical]
Supply Current (Maximum)	105mA @ 24VDC [Typical]