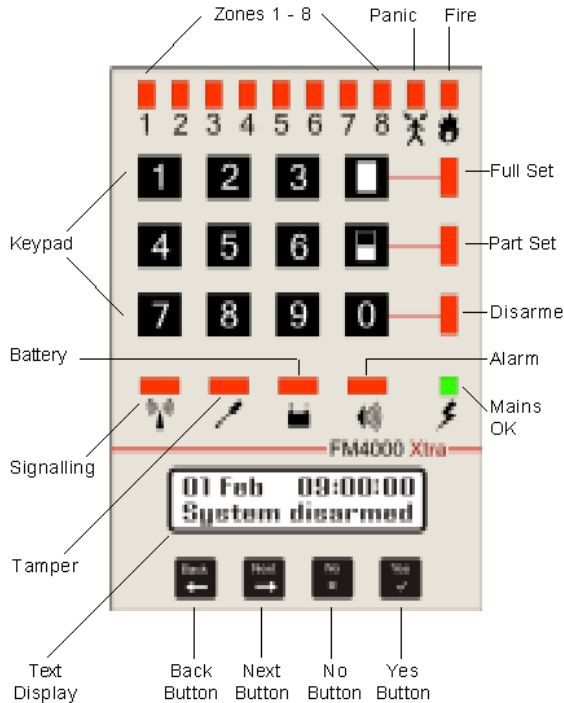


FM4000Xtra CONTROL PANEL

INSTALLATION INSTRUCTIONS



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EN 50131 & PD6662 Compliance

The FM4000Xtra control panel operates in the following ways making our products suitable for use in systems designed to comply with PD6662:2010.

1. The panel will only show the mains status at all times, all other status settings may only show on system (arm/disarm) for 30 seconds after the user code has been entered. (dependant upon programming)
2. To enter engineering mode the user code must first be entered followed by zero, the engineers code must then be entered within the next 30 seconds. Once the engineers code has been entered, the engineer can go in and out of engineering as many times as required, until the next time the system is armed.
3. There is now a 30 second delay on entry before the external sounder(s) and communications (unconfirmed intruder) are activated, unless 2 or more detection devices off the entry route have been activated.
4. The communication outputs have been changed as follows:-
 - 1 = Fire
 - 2 = PA
 - 3 = Intruder (Unconfirmed)
 - 4 = Open/Close
 - 5 = Isolated Zone after Unconfirmed alarm (also known as Reinstatement or Bypass)
 - 6 = Fault (i.e. Low battery, Jamming, Mains failure)
 - 7 = Confirmed Alarm
 - 8 = Tamper (this now includes additional requirements i.e. Supervisory failure)
5. The display is only active when in use, the display will go blank at the end of menu, 15 seconds after the last button press in Manager mode, or when no message needs to be displayed in normal use.

System Programming for systems designed to comply with PD6662:2010 & BSDD 243:2004

To comply with PD6662:2010 a door contact (4650-GB) must be fitted on the final exit door, the exit time must be programmed as infinite on full set and final exit set must be programmed. See options 12,20 & 51 below.

The following settings (or ranges of settings) should be used on systems which are designed to comply with the above requirements.

Option 12 - Select 8

Option 14 - Entry time, must not exceed 45 seconds, Select options **1,2,3,4 or 5**.

Option 15 - Bell time must be between 1min 30 secs & 15 minutes, Select options **3,4,5 or 6**.

Option 20 - Select Entry Zone as appropriate

Option 37 - Dialler & Entry Delay, Select option **3, 30 seconds**

Option 39 - Line fault in daytime - make audible. Select option **1**

Option 40 - Supervisory, checking devices are polling every 20 mins. Select option **1**

Option 42 - Engineer reset, and remote reset enabled. Select option **1**

Option 51 - Select **1**

Option 54 - Confirmation, must be set to BSDD243:2004 Select option **3**

Option 55 - Detector Isolation, must be set to isolate the detector 'first to alarm' option **1**

Option 59 - Display must be masked, select option **1, 2 or 3**.

Option 60 - Delay required select option **1**.

Other requirements for ensuring compliance with the above requirements include:-

1. On systems which need to meet Grade 2 requirements, when a remote antenna is used, ensure the antenna tamper module is fitted.
2. Fit a single action card reader to the control panel for setting/unsetting the control panel.

For systems which do not need to meet the above requirements, any available setting may be used to meet your operational requirements.

CONNECTIONS (RIGHT HAND SIDE)

- 1-4 12V Auxiliary supply output. Maximum load current 500mA
- 5 Tamper -ve return. If connecting a Self Actuating Bell (SAB) then connect the -ve tamper return to this terminal. If not fitting a SAB this terminal must be connected to -ve Aux.
- 6. This terminal provides a +ve output on alarm which is reset next time the panel is armed. It is provided for use with hard wired detectors that have a latching LED facility.
- 7. -ve to trigger Siren. Goes from open circuit to 0v to operate a bell or siren. Max 500mA. Resets after the bell time set in engineer program.
- 8. -ve Strobe. Goes from open circuit to 0v in alarm to operate a strobe. Remains on until the system is disarmed.
- 9. Dialler trigger output. Is provided for triggering an autodialler. This output goes to 0v on alarm. Once triggered it remains until the panel is disarmed so as not to trigger any more until the system is turned off.
- 10 Fault LED output for remote wired arming. Indicates that a fault is present which will prevent arming.
- 11. System Off LED output for remote hard wired arming. Indicates when disarmed.
- 12. Part Set hard wired arming input. Apply +12v to arm. Remove to unset.
- 13. Full Set hard wired arming input. Apply +12v to arm. Remove to unset.

CONNECTIONS ALONG BOTTOM EDGE

HARD WIRED INPUTS 1 & 2

Must be linked out if not used. These inputs are normally closed, opening in alarm. Zone 2 can be programmed to be a PA zone.

EXIT TERMINATE PUSH

Connection for a normally open push button which sets the alarm when pressed during the exit time.

LINE FAULT INPUT

Normally closed input. Open for line fault.

To trigger with applied negative, leave the link in place and apply 0v for line fault.

DIALLER OUTPUTS 1-8

These outputs are for connection to a digital communicator employing +ve removed trigger inputs.

The outputs go from +5v to 0v in alarm.

RECEIVED SIGNAL STRENGTH INDICATION (RSSI)

For connection to a digital voltmeter to indicate the Signal Strength of a transmission received from a detector. (Refer to section on using the RSSI output).

LINE FAULT OUTPUT TO FM4000Xtra

This output is used when employing a dialler with a line fault output. The dialler should be programmed for -ve applied on line fault.

This connection can then be connected to the line fault input on the FM4000. (Leave the link fitted in the line fault input). If a normally closed output is available, remove the link and use both connections

DIALLER OUTPUTS 1 - 8

The dialler outputs are identical in both the FM4000X and FM4001 panels.

- 1 = Fire
- 2 = PA
- 3 = Intruder (Unconfirmed)
- 4 = Open/Close
- 5 = Isolated Zone after Unconfirmed alarm (also known as Reinstatement or Bypass)

6 = Fault (i.e. Low battery, Jamming, Mains failure)

7 = Confirmed Alarm

8 = Tamper (this now includes additional requirements i.e. Supervisory failure)

INSTALLATION

The factory defaults for the user and engineer codes are:-

USER CODE = 1 2 3 4

ENG CODE = 4 6 7 9

Note, the customers code and zero must be entered, before the engineers code will be accepted.

The recommended installation procedure is as follows:

1. Label detectors.

Label each detector with its zone number for reference during installation and for later service reference.

2. Complete the User Record

The back pages of the user instruction booklet should be completed and left with the operator for their reference. It gives them information about the zones etc.

3. Complete a system record sheet

System record sheets should be completed before commencing programming. This acts as a reference when programming and can form part of the installation records.

4. Locate the control panel

For maximum radio coverage the control panel should be located at a central point in the building. The higher it is the better for radio reception. (Do not mount at floor level on a ground floor or below ground floor level, unless ALL devices are at this level.)

Metal objects cause radio reflections which oppose the signal being received from the detector with a resultant reduction in the received signal strength. Metalwork close by can result in complete cancellation, therefore do not site the control panel or detectors near to large metal objects, metal piping, girders, concentrations of mains cabling, fuse boxes etc.

Consider the ease of wiring to the external siren and communications (if required) when making your choice.

The Panel may be temporarily sited whilst a test is carried out to verify the reception from distant detectors. Check the received signal strength unless previously proved using the FM test kit.(See RSSI page 4)

The panels must be fixed using the three fixing points provided. For larger installations a remote tamper protected antenna is available.

Mains supply to the control panel must be provided by a competent electrician to the current issue of the IEE regulations.

A 12v sealed lead acid standby battery should be connected after all wiring has been completed and tested. 12v 2.3AH is recommended.

5. Program detectors onto the panel

Each detector has either an internal "Learn" jumper or a push switch on the front of the pir

To add a detector to the system:

Go into the engineer program. Select the zone and device number. Short out the learn jumper on the detector. Remove the learn jumper after programming.

The detector transmits its identity together with a learn bit. The panel stores the detectors identity code and adds it to the chosen zone.

(Refer to engineer programming section)

6. Carry out range test

If you keep a 4173-GB remote control for testing, you can program this onto the system and then go to each detector location in turn and verify that the control can be armed and disarmed from all detector locations.

7. Mount the detectors

Refer to the detector instructions for recommended mounting positions.

As reflections from metalwork act to cancel the transmission, avoid siting near to any metalwork. Reflections like this can often be overcome by a small movement in position of 15 to 20cm.

8. Making panel program changes.

Complete a system record sheet before making any changes.

Once programmed the program is stored in non-volatile memory, so data will remain stored even in the event of complete power failure.

9. Radio test using the RSSI output

To measure the signal strength received from a detector.

- i) Connect a Voltmeter to the RSSI output terminals.
- ii) Press the reset button next to the RSSI terminals. The voltmeter should now read zero volts.
- iii) Go to the detector and operate the learn jumper or press the light guide.
- iv) Return to the panel. The voltmeter now displays a voltage representing the strength of the transmission received.

It will ignore any other transmissions and

only respond to the learn message or a Panic or Off message from a remote control or panic button.

The voltage reading should be a minimum of 1.0v.

The readings for each detector can be recorded on the system record sheet for future reference.

10. Full system test

A walk test facility is provided in the Operating instructions. This may be used to test all of the devices on the system.

Once the sounders and dialler have been connected and the installation completed a full test with remote signalling should be carried out.

PROGRAMMING

1. Enter Users code followed by 0 & then the engineers code 4 6 7 9

The Alarm led will flash slowly to indicate that you are in the program mode.

The text display will show the following message:- DOWNLOADING DATA PLEASE WAIT.
PLEASE WAIT, until this message changes to SHOW ENGINEERS MENU?

2. Key in the two digit program number.

(The zone led's indicate which option is set & the text display will also indicate your selected option.)

3. Key in the option required

(The zone led's and the LCD display, indicate your choice)

4. Press the Full Set key to exit that program step & enter the required programming selection.

5. When finished with programming key in 48 to exit engineer mode.

ERROR CORRECTION VIA PART SET KEY

If you accidentally enter an engineer program number and change an option value, you can undo the change by pressing the Part Set key before exiting the program step via the Full Set key.

EXAMPLE: To set the Full set exit timer to 1 minute.

Key in Customer code (default = 1234) then 0 4 6 7 9 The alarm indicator will illuminate to indicate that you are now in engineer program mode

Key in 1 2 To select Full set exit time (program No. 12)___

Key in 6 To select the 1 minute option.

Zone 6 LED indicates your choice

Press the Full Set button to exit program step.

Note: The Full Set button must be pressed to exit from each program step.
Until the Full Set button is pressed any key press just changes your choice of option.

Key in the next program Number you wish to change.

When all programming is complete Key in 48 to exit engineer mode

DETECTOR PROGRAMMING

LEARNING DEVICES

When installing the system you may find it easier to label each detector with its zone number and learn them into the panel before installation. Once programmed into the panel's memory, the information will not be lost even when power is removed from the panel.

01 PROGRAM DEVICES ONTO ZONE 1

Select program number 01.

The LCD display will show "LEARN ZONE 1 DEVICE ?"

The LEDs 1 to 8 indicate which of the 8 devices are already programmed onto zone 1.

Use keys 1 to 8 to select the device number.

Operate the learn on the detector and **ensure that devices with learn pins are not left permanently shorted.** Note the button on the bottom right hand corner of PIRs is used to learn on these devices.

The panel will emit 2 short blips to indicate that it has learnt the detector.

The corresponding LED will illuminate and the LCD will display the unique 5 digit identity code of the device with the message LEARN OK.

If the device was already programmed on the system at a different location the message will say MOVED FROM xx (where xx is the old zone and device number).

If a device was already programmed in the location the LCD will show the message ALREADY STORED and the new device will overwrite it. automatically deleting the old one.

Press the Full Set key to exit.

DELETING DEVICES FROM ZONE 1

Select program number 01.

The LCD display will show

LEARN ZONE 1 DEVICE ?

The LEDs 1 to 8 indicate which of the 8 devices are already programmed onto zone 1.

Use keys 1 to 8 to select the device number to be deleted.

If a device did exist at that location the LCD will show ALREADY STORED.

To delete the device press PART SET and OFF keys together.

The LCD will show that the device has been deleted.

Press the Full Set key to exit

02 PROGRAM DEVICES ONTO ZONE 2

03 PROGRAM DEVICES ONTO ZONE 3

04 PROGRAM DEVICES ONTO ZONE 4

05 PROGRAM DEVICES ONTO ZONE 5

06 PROGRAM DEVICES ONTO ZONE 6

07 PROGRAM DEVICES ONTO ZONE 7

08 PROGRAM DEVICES ONTO ZONE 8

09 RADIO PANIC BUTTONS

Key in 091 to program the first PA button onto the system. The Panic button is operated and the device will learn onto the control panel.

Up to 8 Panic buttons can be programmed onto the PA zone, i.e. devices 091 to 098.

The LCD display will refer to the panic buttons as P1 to P8.

Press the Full Set key to exit.

10 FIRE ALARM DEVICES

Key in 101 to program the first Fire detector onto the system. Short out the learn jumper.

(Ensure learn jumper is removed after programming).

Up to 8 Fire detectors can be programmed onto the Fire zone, i.e. devices 101 to 108.

The LCD display will refer to the Fire detectors as F1 to F8.

Press the Full Set key to exit.

11 REMOTE CONTROLS & RADIO KEYPADS.

Key in 111 to program the first Remote Control onto the system. The Panic button is operated instead of a learn jumper.

Up to 8 Remote Controls can be programmed onto the system, i.e. devices 111 to 118.

The LCD display will refer to the remote controls as R1 to R8.

Press the Full Set key to exit.

12 FULL SET EXIT TIME

1 = 2 secs 2 = 10 secs 3 = 20 secs*

4 = 30 secs 5 = 45 secs 6 = 1 min.

7 = 2 mins. 8 = Infinite

Press Full Set to exit

*** = FACTORY DEFAULT**

13 PART SET EXIT TIME

1 = 2 secs 2 = 5 secs 3 = 10 secs*

4 = 15 secs 5 = 20 secs 6 = 30 secs

7 = 1 mins. 8 = As full set exit time.

Press Full Set to exit

14 ENTRY TIME

1 = 1 sec 2 = 10 secs 3 = 20 secs

4 = 30 secs* 5 = 45 secs

Press Full Set to exit

00 INVERT SIREN OUTPUT

Normally -ve applied in alarm. (0v in alarm)

0 = -ve applied in alarm*

1 = -ve removed in alarm

15 BELL DURATION

1 = Silent 2 = 15 secs 3 = 90 secs.

4 = 2 mins. 5 = 3 mins. 6 = 10 mins.

7 = 15 mins.* 8 = Continuous

Note:- duration must not exceed 15 mins. to meet EN50131- PD6662 requirements.

Press Full Set to exit

16 BELL DELAY

1 = 0 mins.* 2 = 1 mins. 3 = 3 mins.

4 = 4 mins. 5 = 5 mins. 6 = 6 mins

7 = 7 mins 8 = 10 mins

Note: In the event of a line fault, bell delay will become 0 mins.

Press Full Set to exit

ZONE PROGRAMMING

IMPORTANT: Remember that all devices on a particular zone will respond to the zone option selected. So if zone 1 has final exit detectors, all detectors on zone 1 must also be final exit.

17 FULL SET ZONES

The factory default is all zones active. The zone LED's and text display indicate which zones are active in full set.

Use the keys 1 to 8 to select or deselect zones. The 0 key deletes all. Press the full set key to exit.

18 PART SET ZONES

The factory default is zones 1 to 4 active.

The zone LED's and text display indicate which zones are active in part set. Use the keys 1 to 8 to select or deselect zones. The 0 key deletes all.
Press the full set key to exit.

19 OMIT PERMIT ZONES

(The zones that the user is allowed to omit) The factory default is all zones allowed to be omitted except zone 1.

The zone LED's and text display indicate which zones are allowed to be omitted. Use the keys 1 to 8 to select or deselect zones. The 0 key deletes all.

Press the full set key to exit.

20 FINAL EXIT ZONES

(Zones that start the entry time) The factory default is zone 1 only.

The zone LED's and text display indicate which zones will start the entry timer. Use the keys 1 to 8 to select or deselect zones. The 0 key deletes all.

Press the full set key to exit.

21 WALK THROUGH ZONES

The factory default is none. The zone LED's and text display indicate which zones are walk through during entry.

Use the keys 1 to 8 to select or deselect walk through zones. The 0 key deletes all.

Press the full set key to exit.

22 IGNORE ZONE IF FIRST TO ALARM

(Double Knock)

Alarm only if two zones are triggered. The factory default is none.

The zone LED's and text display indicate which zones are double knock.

Use the keys 1 to 8 to select or deselect double knock zones. The 0 key deletes all.

Press the full set key to exit.

23 AUXILIARY ZONES

Technical alarm. i.e.. Freezer giving internal audible on control panel.

The factory default is none. The zone LED's and text display indicate which zones are auxiliary zones.

Use the keys 1 to 8 to select or deselect aux. zones. The 0 key deletes all.

Press the full set key to exit.

24 24 HOUR ZONES

The factory default is none. The zone LED's and text display indicate which zones are 24 hour.

Use the keys 1 to 8 to select or deselect 24 hour zones. The 0 key deletes all.

Press the full set key to exit.

NOTE: If you do not want a 24 hour zone to be omitted, remove the zone from omit permit via program No.19.

25 SOAK TEST ZONES

The factory default is none. The zone LED's and text display indicate which zones are on soak test.

Use the keys 1 to 8 to select or deselect soak test zones. The 0 key deletes all.

Press the full set key to exit.

26 CHIME ZONES

The factory default is none. The zone LED's and text display indicate which zones are on chime.

Use the keys 1 to 8 to select or deselect chime zones. The 0 key deletes all.

Press the full set key to exit.

OTHER PROGRAMS

27 P.A. SILENT / AUDIBLE The factory default is audible. The text display indicates the current/selected status.

1= Silent 0= Audible *

Press the full set key to exit.

28 DOUBLE BUTTON P.A.

On early remote controls both PA & unset buttons need to be pressed to generate a PA. The text display indicates the current/selected status.

1 = Double 0 = Single*

Press the full set key to exit.

29 SILENT PART SET

1 = Silent 0 = Audible*

Press the full set key to exit.

30 UPSTAIRS / DOWNSTAIRS

This option tells the panel to accept part set button as a separate alarm system.) e.g.. The Part Set button becomes the alarm system in the flat & the Full set button is a separate alarm system in the office. In this mode the user can set either one or the other, or both systems by selection when arming. The text display indicates the current/selected status.

1 = Select Upstairs/Downstairs mode.

0 = Normal Part / Full set mode.*

Press the full set key to exit.

31 8 SECOND STROBE WHEN FINAL SET AND UNSET

If selected the strobe output operates for 8 seconds at the moment the panel is full set. i.e. when the exit timer terminates.

The strobe also operates for 8 seconds when the panel is Unset from Full Set. The text display indicates the current/selected status.

1 = 8 sec. Strobe

0 = No 8 second strobe*

Press the full set key to exit.

32 COURTESY STROBE IN FULL SET ENTRY / EXIT

If selected the strobe output terminal 8 operates when Full setting the panel. The strobe output also operates for the entry time when unsetting from Full Set.

(If a mains relay is connected via this output a mains courtesy light could be switched on by disarming from outside with a remote control.) The text display indicates the current/selected status.

1 = Courtesy strobe on 0 = off*

Press the full set key to exit.

33 WALK THROUGH ZONES BECOME FINAL EXIT IN PART SET

To prevent false alarms in part set it is often useful to make walk through zones initiate the entry timer. The text display indicates the current/selected status.

1 = Yes 0 = No*

Press the full set key to exit.

34 JAMMING

When this option is selected, the text display indicates the current/selected status.

1 = Jamming generates a full alarm when set

0 = indicator only*

Press the full set key to exit.

(Jamming is signalled to the appropriate dialler outputs.)

35 MAINS FAILURE & PANEL LOW BATTERY PREVENTS ARMING

When this option is selected, the text display indicates the current/selected status.

1 = Prevents arming.

0 = Does not prevent arming*

Press the full set key to exit

36 REMOTE CONTROL UNSETS ONLY IN ENTRY

When this option is selected, the text display indicates the current/selected status.

1 = Full operation. Unset at time.*

Text display reads 'normal'.

2 = Unset only during Full set entry time. Text display reads 'mode1'.
3 = No disarm in Full set. Will disarm in part set. Text display reads 'mode2'.
Press the full set key to exit.

37 DIALLER & ENTRY DELAY PERIOD

When this option is selected, the text display indicates the current/selected status.
1 = None* 2 = 20s 3 = 30s 4 = 1 min 5 = 2 min
Press the full set key to exit

38 NO EXTERNAL BELL OR DIALLER IN PART SET

(Internal bells only in Part Set).

When this option is selected, the text display indicates the current/selected status.
1 = Internal sounder only in Part Set.
0 = Dialler and siren In both full or part set* Press the full set key to exit

39 LINE FAULT IN DAYTIME AUDIBLE

When this option is selected, the text display indicates the current/selected status.
1 = Audible and visual
0 = visual only*
Press the full set key to exit.

40 SUPERVISORY

Do not select supervisory unless all your detectors are 4600 series.

Do not select supervisory if using zoned Panic buttons.

When this option is selected, the text display indicates the current/selected status. _____
1 = Supervision
0 = No supervision*
Press the full set key to exit.

41 SUPERVISORY FAULT

When this option is selected, the text display indicates the current/selected status.
1 = Full alarm
0 = Indication only*
Press the full set key to exit

42 ENGINEER RESET

When this option is selected, the text display indicates the current/selected status.
1 = Engineer reset 0 = No*
Press the full set key to exit.

43 REARMING

When this option is selected, the text display indicates the current/selected status.
1 = none 2 = once 3 = twice 4 = always*
Press the full set key to exit

44 RESTORE MAIN PANEL NV RAM TO FACTORY DEFAULT VALUES

Short out the MEM link while keying in 44.

All zone LED's will come on, the panel will emit a long bleep and will go out of engineering mode into the day state.

WARNING:

This will delete all detectors from the system.

The text descriptions and panel event log will not be reset following this action.

45 AUDIBLE RECEIVE MODE

The LCD display does not change, during this operation.

The output from the receiver can be heard on the panel loudspeaker.

Press the full set key to exit.

46 DISPLAY ENGINEERS LOG

The LCD display does not change, during this operation.

Press keys 1 to 8 to view the last 8 events.

Most recent is displayed on key 1.

Key 9 shows the last "First to Alarm"

Press the full set key to exit.

47 CHANGE ENGINEERS ACCESS CODE

The LCD display does not change, during this operation.

Key in a 4 digit code twice.

48 LEAVE ENGINEER MODE

If any devices have their tampers open, the display silently shows which zones are tampered. You can now enter your engineer code and restore the tampers before leaving engineer mode by pressing 48 again. If a tamper is activated, while the panel is out of engineering, it will be audible.

49 DIALLER OUTPUT FOR PA

When this option is selected, the text display indicates the current/selected status.

1 = PA Triggers PA dialler output

0 = PA Triggers PA and ALARM dialler outputs*

Press the full set key to exit.

50 HARD WIRED PA ON ZONE 2

When this option is selected, the text display indicates the current/selected status.

1 = Zone2 is a PA zone

0 = Zone2 is a standard zone*

Press the full set key to exit.

This feature enables hardwired PA buttons to be connected to the panel via the zone 2 hardwire input.

CAUTION: Radio devices including PIRS and contacts programmed onto zone 2 will also trigger a PA alarm if this option is selected.

51 FINAL EXIT SET

When this option is selected, the text display indicates the current/selected status.

1 = Yes 0 = No*

If yes the exit time will terminate when the final exit door is closed.

52 REMOTE CONTROL & REMOTE KEYPAD FULL SET EXIT TIME

When this option is selected, the text display indicates the current/selected status.

1=2s 2=10s* 3=20s 4=30s 5=45s 6=1m
7=2min 8=infinite

This applies to remote control and remote keypad only.

The exit time when armed from the panel keypad (option 12) is not affected.

53 REMOTE CONTROL & REMOTE KEYPAD PART SET EXIT TIME

When this option is selected, the text display indicates the current/selected status.

Enables the exit time to be set for part set via the remote control / keypad. The exit time set by option 13 still applies when arming from the panel keypad.

1=2s 2=5s 3=10s* 4=15s 5=20s 6=30s 7=1min 8=as full set

54 CONFIRMATION OPERATION

1 = No confirmation* Display reads Mode 1

(If eng reset is prog'd it will be req'd)

2 = Basic confirmation - BS DD 243:1999 Display reads Mode 2

(Entry timer expiring counts as one alarm)

3 = Confirmation - BS DD 243:2004 Display reads Mode 3

(All activations during entry ignored for confirmation purposes, until end of entry time and 30 seconds delay.)

55 DETECTOR ISOLATION

When this option is selected, the text display indicates the current/selected status.

0 - No isolation*

1 - Isolate the zone which caused an unconfirmed alarm and operate the reinstatement output when required.

Option 1 must be selected to comply with BS DD 243 2002 or later.

56 DIALLER TEST

Key in 56 followed by a number key to operate a dialler channel. The number selected will be displayed.

- 1 = Fire
- 2 = Panic
- 3 = Intruder Alarm
- 4 = Open / Closed
- 5 = Reinstatement
- 6 = Fault
- 7 = Confirmed Intruder
- 8 = Tamper

Press full set key when test is completed.

57 DIALLER TRIGGER INVERT

All the dialler outputs are positive removed as the default setting, but can be inverted to Negative removed as required. To invert an output key in 57 followed by the required output to be inverted, using the same list as used for the dialler test.

Press full set key when outputs have been selected, outputs will change to the selected settings when the full set key is pressed.

58 DISPLAY SOFTWARE ISSUE.

Displays the software issue of the 4000X panel, press full set to exit.

59 DISPLAY SET STATUS

- 1 = 5s 2 = 15s 3 = 30s* 4 = continuous

The panel set status is only available for the selected timed period after the customer code has been entered, unless continuous is selected.

60 MAINS DELAY

- 1 = Yes³ 2 = No*

61 REPORT TAMPER

Select when the tamper should be reported to the Alarm Receiving Centre

1. Never 2. Always* 3. Only when armed.

REMOTE ENGINEER RESET FACILITY

When an alarm occurs which requires an engineer reset, the user can call the Alarm Receiving Centre and obtain the access code number to key in to the panel.

The panel zone LED's will illuminate randomly.

From the LED's the Central Station operator can refer to a reference table and instruct the user what code to enter to perform an engineer reset.

Next time the alarm operates the reset code number will have changed.

SETTING UP THE TEXT DISPLAY.

INTERNAL MEMORY

Each operation of the alarm system is stored in an internal memory called the "SYSTEM LOG" which has a capacity of storing the last 511 events together with the time and date that they occurred. The system log can be read out on the LCD display when required.

It is also possible for your engineer to connect a printer to the FM4001 and obtain a full print out of the log.

DETECTION DEVICE DESCRIPTIONS

A facility is included for you to program descriptions up to 16 characters in length to identify each alarm detector individually.

DEVICE DATA

A facility used for indicating the number of times a device has transmitted. This count includes all transmissions and is for indication of device operation only.

CHANGING THE TIME & DATE

The internal clock is used to identify the time of alarm operation.

To set the time

1. Enter your 4 digit pin number.

2. Wait 3 seconds
Display shows

Sh o w m a n a g e r ' s
m e n u ?

Press the YES button.

3. Display shows

1 6 J u n 1 9 : 0 3 : 4 6
S e t t h e t i m e ?

Press YES

4. Display shows
the hour

1 6 J u n 1 9 : 0 3 : 4 6
S e t t h e h o u r ?

Press YES to change

Use the arrow keys to set the hour. Hold down the arrow key to scan quickly through the hours. Press YES when the correct hour is displayed.

5. Display shows
the minutes.

1 6 J u n 1 9 : 0 3 : 4 6
S e t m i n u t e s ?

Press Yes to change

Use the arrow keys to set the minute. Hold down the arrow key to scan quickly through the minutes. Press YES when the correct minute is displayed

6. Display shows

1 6 J u n 1 9 : 0 3 : 4 6
S e t t h e d a t e ?

Press YES to change
NO to make no change.

7. If you answer YES
display shows

1 6 J u n 1 9 : 0 3 : 4 6
Y e a r = 1 9 9 6

Use the arrow keys to select the year
When the correct year is displayed press YES

8. Display shows
change

1 6 J u n 1 9 : 0 3 : 4 6
M o n t h = J u n e

Press YES to

Use the arrow keys to select the month
When the correct month is displayed press YES

9. Display shows
change

1 6 J u n 1 9 : 0 3 : 4 6
D a y = 1 6

Press YES to

Use the arrow keys to select the day
When the correct day is displayed press YES

10. The display now asks you if you wish to review any other user information. Press NO to each question until END OF MENU is displayed.

- - - - -
E n d o f m e n u

CHANGING OR ENTERING DETECTOR DESCRIPTIONS.

If no descriptions have been programmed, each alarm sensor will be identified by its zone and device number.

A 16 character description may be entered if preferred to make identification easier.

To key in a description.

1. Key in your 4 digit PIN number.

2. Display shows

S h o w m a n a g e r ' s
M e n u

Press YES.

3. Display shows

1 6 J u n 1 9 : 0 3 : 4 6
S e t t h e t i m e ?

Press NO.

4. Display shows

1 6 J u n 1 9 : 0 3 : 4 6
S e t t h e d a t e ?

Press NO

5. Display shows

R e v i e w
d e s c r i p t i o n s

Press YES

Device number 11
Zone 1 Device 1

7. Press YES if you want to change the description
(NO key takes you out of description programming altogether).

Use the arrow keys to find the character required and press YES to enter it.

$F > G < H$ 5 8 LOUN

To delete the last letter press the NO key.

The number seen in the top right hand corner is the zone and device number. Find the next character using the arrow keys and YES to enter it.

Repeat until the word is built up and then finish with the end of description character

ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789() - + = # ? / & * , ; : [] ^ _ ` { } | ~ . ! " % ' () * + , - . / : ;

Space Space End of description

DISPLAYING THE SYSTEM LOG

2. Press the NO key until the LCD displays

```

Show      s y s t e m
         l o g ?

```

Press YES

3. The first item in the log is the most recent event

Press the BACK arrow key to move backwards in time.
The arrow keys can be used to move up and down the log.
Press NO key to exit from the log.

26 Jun 20:02:23

REVIEW DEVICE DATA

1. Key in your 4 digit pin number, wait 3 seconds.

Show manager's
menu?

Press YES

2. Press the NO key until the LCD displays

Review Device Data?

Press YES

3. The display will show

Review Device Data?
Please Wait

4. After this the display will show

11 XX
FRONT DOOR

5. This display is now showing

11 = Zone One Device One

XX = The Number of transmissions since the panel was last set, up to a maximum of 94 Note this figure will not equal the number of device activations as some conditions will transmit more times than others.

FRONT DOOR is the text description programmed against the relevant device.

6. You can use the arrow keys to look through all the devices on your system or select a particular device.

7. When you have looked at all the required devices press either the Yes or the No key to exit the Menu.

End of menu

UNDERSTANDING THE TEXT DISPLAY.

The time displayed will be the time that the alarm or fault occurred.
The display will automatically clear next time you arm the system.
If you want to clear a display enter your PIN number followed by Off.

26 June 15:41:22
Panel disarmed

Normal daytime display

The panel disarmed or system set messages may only be available for a limited time, your alarm engineer will set this time to meet current regulations, currently 30 seconds max. See engineer option 61 for available settings.

26 June 15:41:22
Exit fault

When arming the system with a door open. The display also shows which door has been left open.

26 June 15:41:22
Entry alarm

The alarm was activated by exceeding the entry time when disarming. Have your alarm company extend the entry time.

26 June 15:41:22
Alarm

An alarm occurred whilst the system was armed. The detector which triggered the alarm will also be displayed

26 June 15:41:22
Low battery

A detector has reported a low battery. The detector which sent the signal will also be displayed.
If it re-occurs have the battery replaced.

26 June 15:41:22
Keypad tamper

15 incorrect key presses have been recorded at the control panel, or a remote keypad has been tampered with. Cancel by entering your 4 digit PIN number.

26 June 15:41:22
Line fault

The telephone line has developed a fault. Call your alarm company if it does not clear.

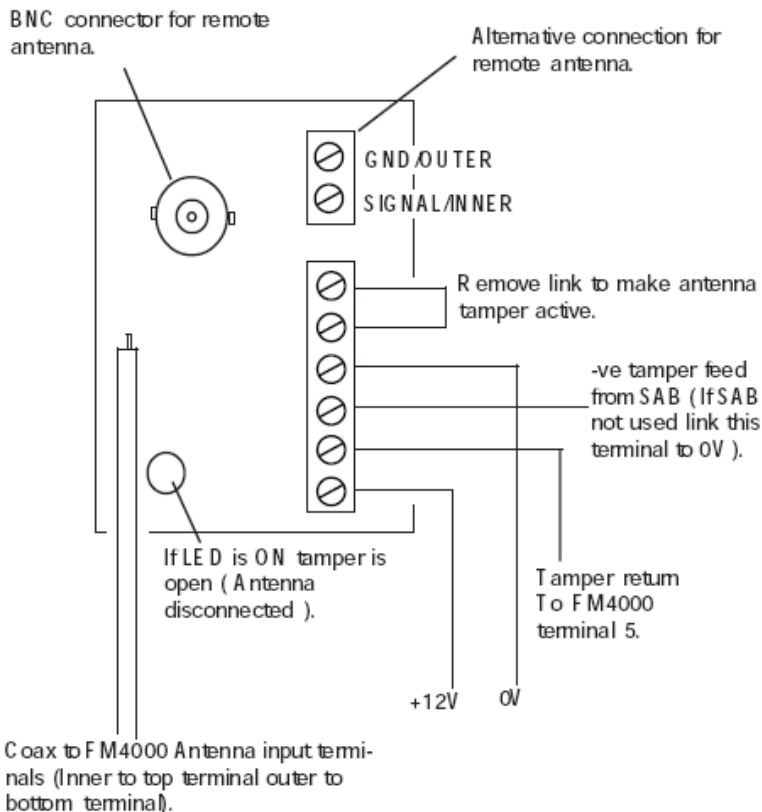
26 June 15:41:22 Supervisory fault	The radio transmission from a detector has not been received correctly. If it persists call your alarm company.
26 June 15:41:22 Tamper	A detector has reported a tamper. i.e. a detector cover has been removed.
26 June 15:41:22 <u>Mains restored</u>	The control panel has recorded a mains interruption.
26 June 15:41:22 Walk test	When you have carried out a customer walk test the display will show the last detector triggered. You can examine the log to see all the detectors operated during walk test. When you have completed your walk test, key in your PIN number followed by 6 to come out of test mode
26 June 15:41:22 Panel tamper	Either the control panel lid has been opened or a fault has developed on the wiring to your external siren. Call your alarm company.
26 June 15:41:22 Panic alarm	A panic alarm has been received from a remote control, a panic button or a remote keypad. Enter your PIN number to cancel the alarm.
26 June 15:41:22 24 hr alarm	A detector which is set to be active 24Hrs per day has reported an alarm. The detector will be displayed.
26 June 15:41:22 Auxiliary alarm	A detector such as a temperature or water level alarm has operated. The device will be displayed.
26 June 15:41:22 Soak test	A detector which has been disconnected from the alarm system for tests has alarmed. Inform your alarm company.

4005 ANTENNA TAMPER MODULE

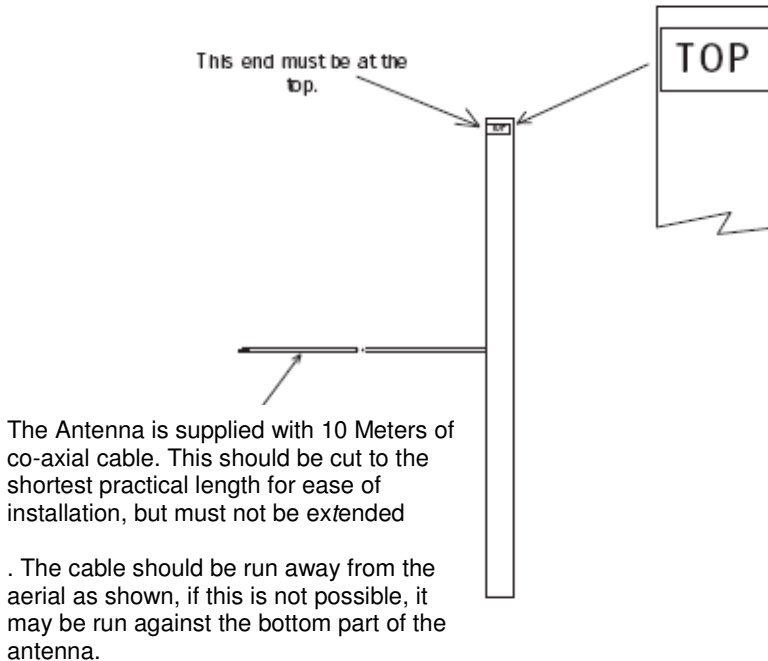
The 4005 is for use with tampered remote antennas.

When fitted into the FM4000 panel the -ve tamper return from an external siren is connected to this module as shown below.

Mount the module to the right hand side of the transformer in the FM4000 with the single screw supplied.



4007 REMOTE ANTENNA



Do not run any cables near the top part of this antenna.

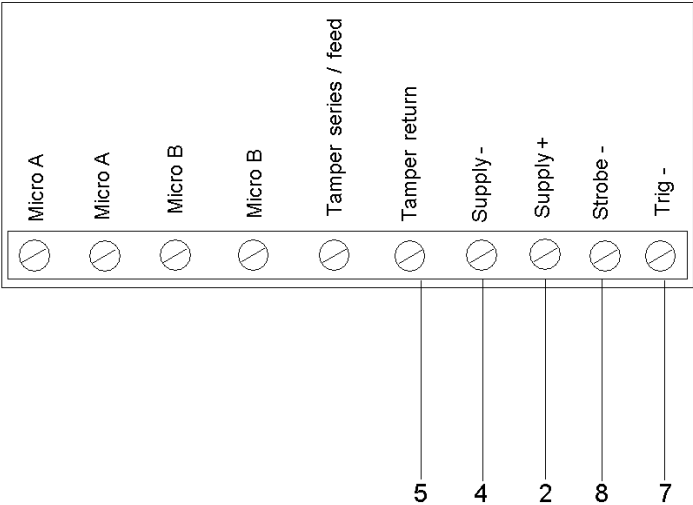
Always mount the remote antenna **away from** other **wiring**, any other **metal objects** and **as high as practically possible** to obtain the best working range from the 4000Xtra control panel.

A loft area is often a good location for this aerial as this will typically be high and the aerial is unlikely to be near sources of radio interference. Typical sources of interference include:- PC's TV's and Fluorescent Lighting.

When the remote antenna is used, the antenna fitted into the FM4000Xtra control panel **MUST** be disconnected.

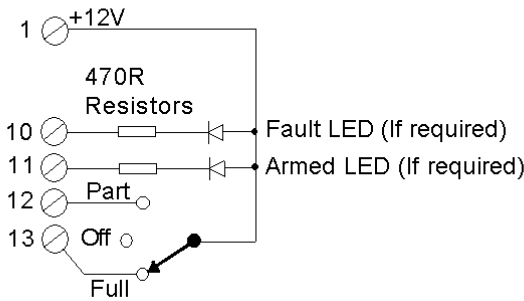
When connecting the co-axial cable directly into the control panel without using the taper module, the centre core should connect to the ant connection in the control panel & the outer screen to the ground connection. Take care to ensure that no stray whiskers can short between these two connection points.

SAB CONNECTION TO THE FM4000

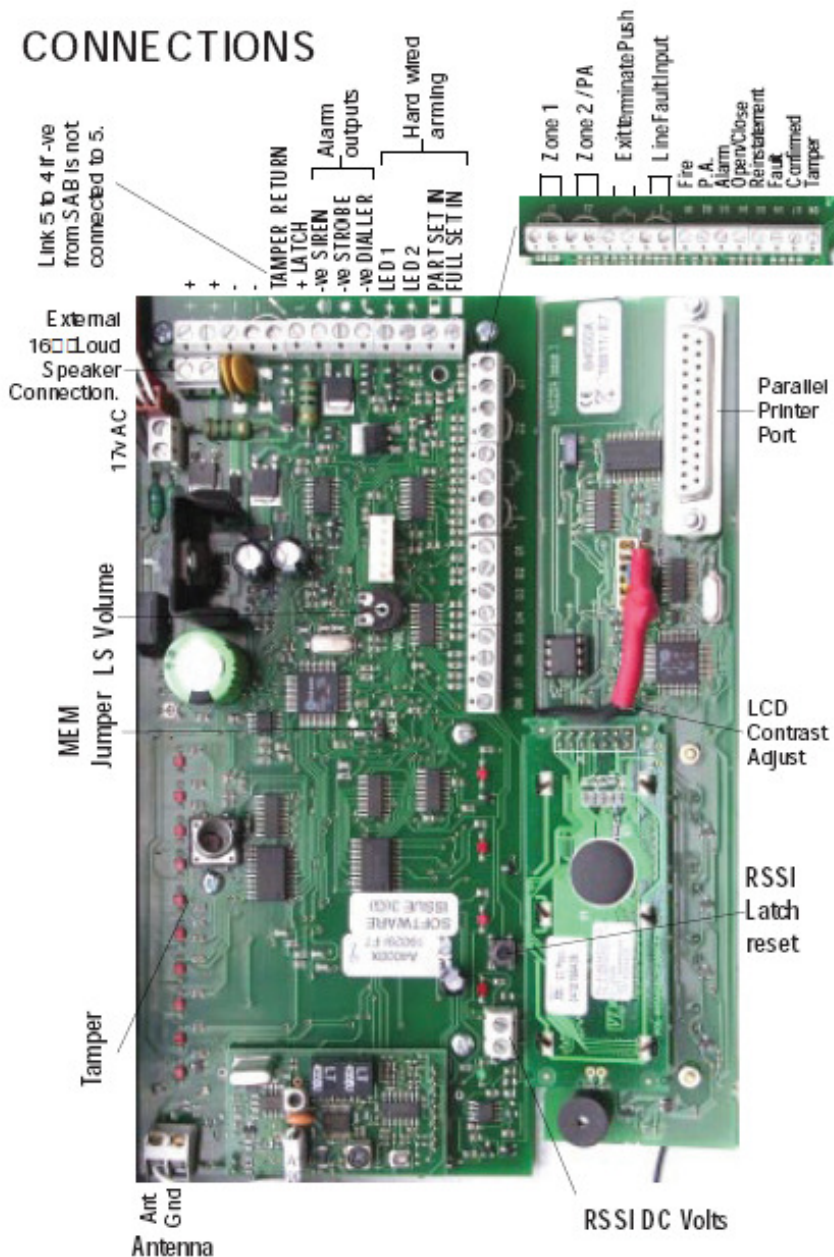


Connections on the FM4000 main board

WIRED KEYPAD / KEYSWITCH ARMING



CONNECTIONS



FAULT FINDING GUIDE

CUSTOMER HAD AN ALARM Ask them to press the Full set button and tell you what indicators are on. The LED's indicate the cause of the alarm and also the setting status at the time.

MAINS LED FLASHING Mains failure (Restore supply)

ZONE LED **FLASHING (in exit)** Check that doors and windows are closed.
Flashing with tamper LED A detector has an open tamper.
Flashing with battery LED The detectors batteries need replacing.

ALARM LED **ON** - Full alarm. The LEDs indicate what caused the alarm.
If Engineer reset is programmed into the panel an engineer reset will be required before the system can be re-armed.

FLASHING WITH ZONE LED A detector on soak test has triggered whilst the system was armed.

FLASHING WITHOUT A ZONE LED An engineer reset is required.

BATTERY LED **ON** The control panel's battery is disconnected or needs replacement.
FLASHING: Detector has a low battery. The zone LED will flash to which one.

SIGNALLING LED **ON** The system is being blocked by a continuous transmission.
FLASHING If flashing on its own, an external line monitor has signalled that the telephone line is at fault.

Flashing together with a zone indicator. The system is set as a supervised system and the detector indicated by the flashing zone LED has failed to report in. (Re-site the detector where there is good radio reception.) Use the RSSI output to check.

CONTACT TRANSMITTER NOT WORKING Check the magnetic contact is operating correctly. Open lid and check what zone it should be on. Go into the panel engineer mode and check if it has been programmed onto the correct zone.

Note: the panel will not allow you to program a detector onto two zones. When programmed onto a zone any previous zone allocation will be deleted.

PIR NOT WORKING The detector needs at least 6 minutes to 'settle' when the batteries are first fitted or repaced.

Ensure the device is programmed into the control panel.

Set the control into operator walk test mode and walk test the detector after pressing 'LED Guide'. Pressing the 'light guide' button overrides the 2 minute inhibit timer.

Opening the cover should trigger a 'Tamper' at the control panel.

CUSTOMER HAS FORGOTTEN THEIR CODE Open the panel and short out the MEM jumper. The user and engineer codes will be restored to the factory defaults 1234 & 4679. No other programming is affected.