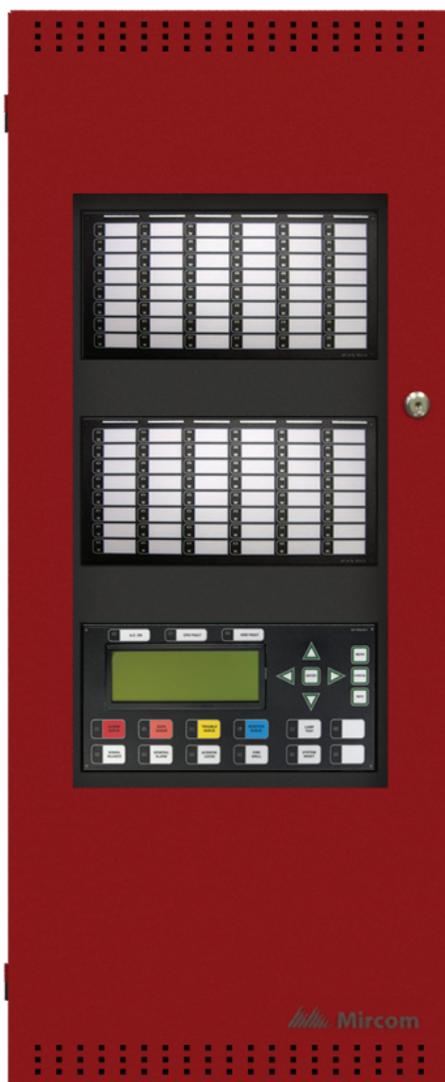


FX-2000 Series

Fire Alarm Control Panel



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Introduction

About this Manual

This user's guide provides information on using the FX-2000 Fire Alarm Control Panel Command Menu features. Using the instructions provided in this manual, you will be able to

- Print reports
- Bypass devices, circuits, loops, and disconnect relays
- Perform a walk test
- Change your passcode
- Clear logs and counters
- Set Day/Night mode and Time
- Auto program the system

Technical Support

For all technical support inquiries, please contact Mircom's Technical Support Department between 8 A.M. and 5 P.M. (EDT) Monday through Friday, excluding holidays.

Local Phone: 905-695-3535 **Toll-Free Phone:** 1-888-449-3535

Local Fax: 905-660-4113 **Toll-Free Fax:** 1-888-660-4113

Email: techsupport@mircom.com

Front Panel Indicators, Controls, and Operation

Front Panel Indicators and Control Locations (Classic Display)

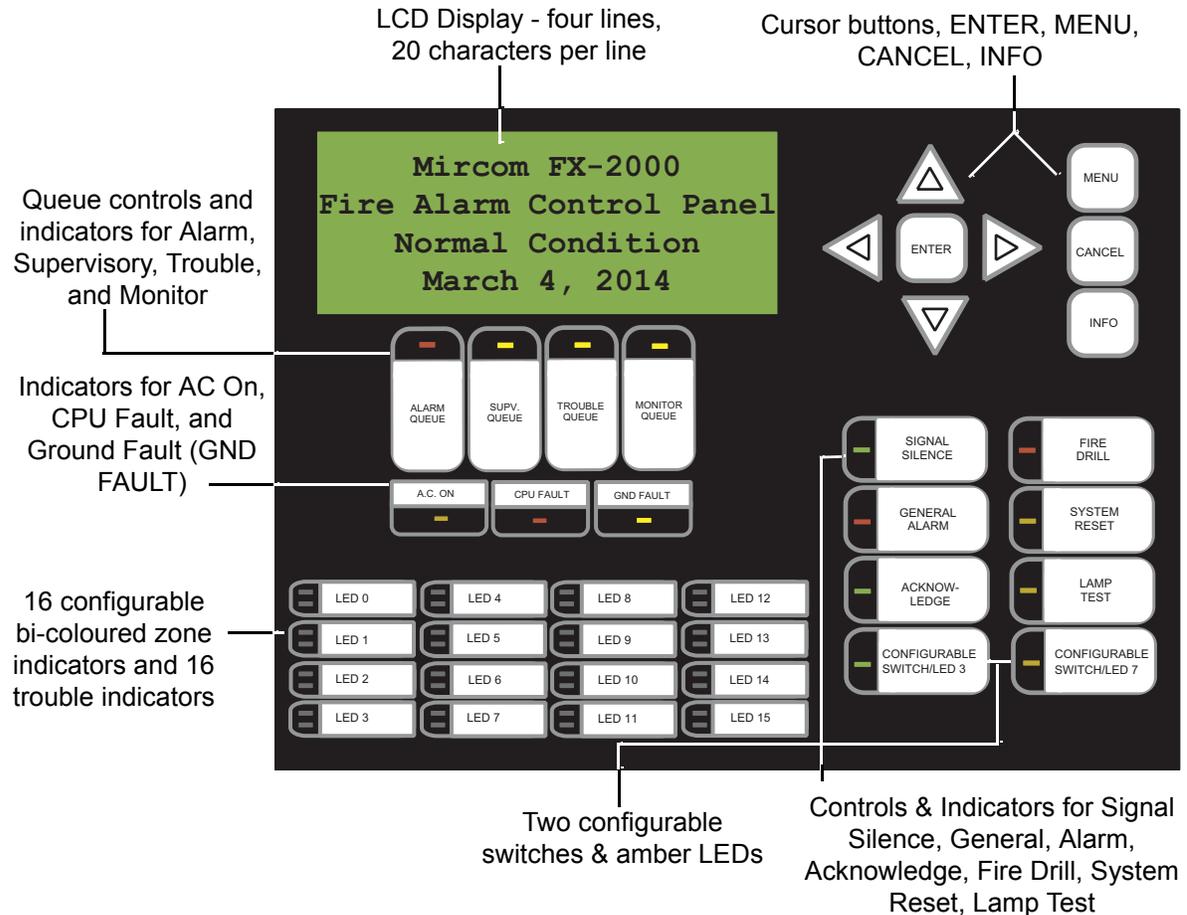


Figure 1 Front Panel Indicators (Classic Display)



Note: The General Alarm LED and pushbutton, and the Acknowledge LED and pushbutton, are active only on a system configured for two stages.

LED indicators are amber (trouble or supervisory), red (alarm), or green (AC On), and may illuminate continuously (steady) or at one of two flash rates:

- **Fast flash:** 120 flashes per minute, 50% duty cycle
- **Trouble flash:** 20 flashes per minute, 50% duty cycle

Paper Labels for Buttons and Indicators

Buttons and indicators are supplied with paper labels. These labels slide into the plastic label templates on the face of the panel. Paper labels allow for easy English / French selection and custom-printed zone information.

Front Panel Indicators and Control Locations (New DS Display)

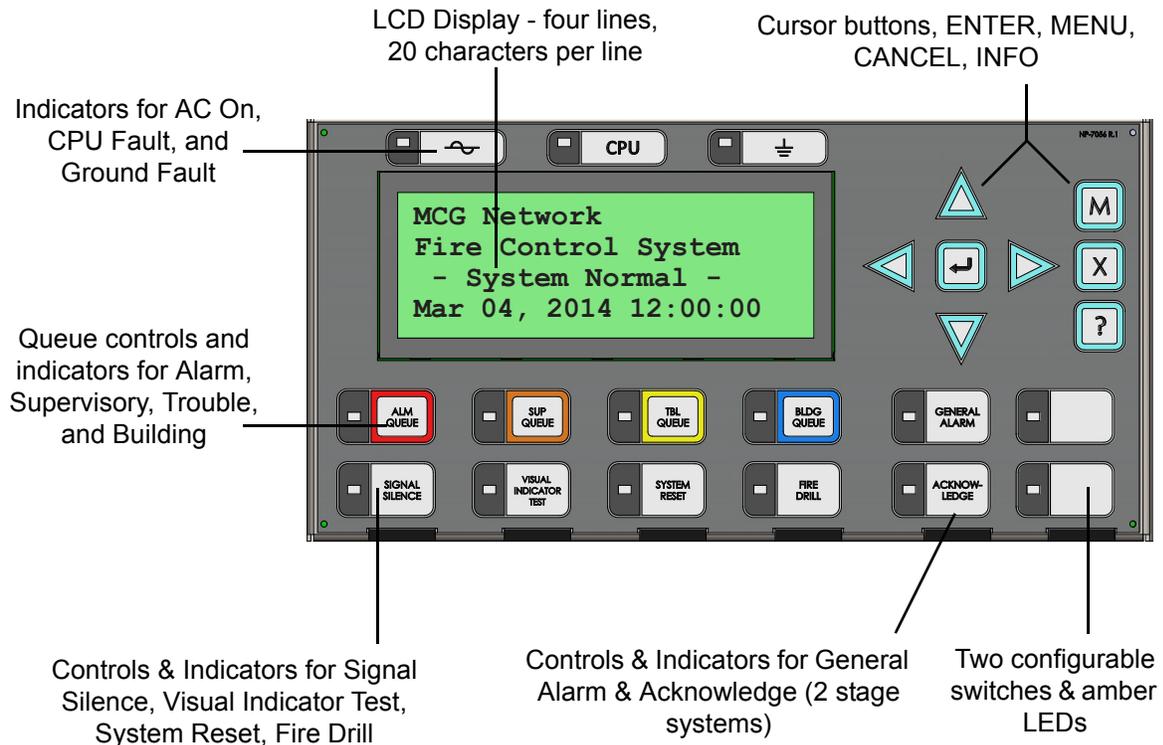


Figure 2 Front Panel Indicators (New DS Display)



Note: The General Alarm LED and pushbutton, and the Acknowledge LED and pushbutton, are active only on a system configured for two stages.

LED indicators are amber (trouble or supervisory), red (alarm), or green (AC On), and may illuminate continuously (steady) or at one of two flash rates:

- **Fast flash:** 120 flashes per minute, 50% duty cycle
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Paper Labels for Buttons and Indicators

Buttons and indicators are supplied with paper labels. These labels slide into the plastic label templates on the face of the panel. Paper labels allow for easy English / French selection and custom-printed zone information.

Switch Numbering (New DS Display)

Figure 3 shows the switches as the Configurator numbers them. This display is called **4 x 20 Default** in the Configurator.

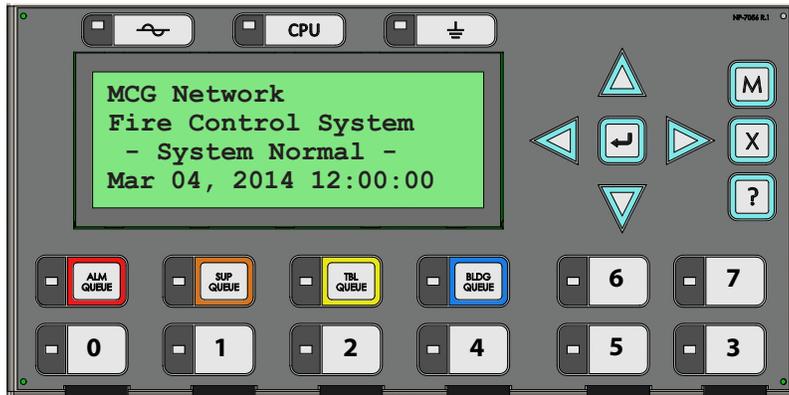


Figure 3 Switch Numbering for New DS Display

Common Indicators

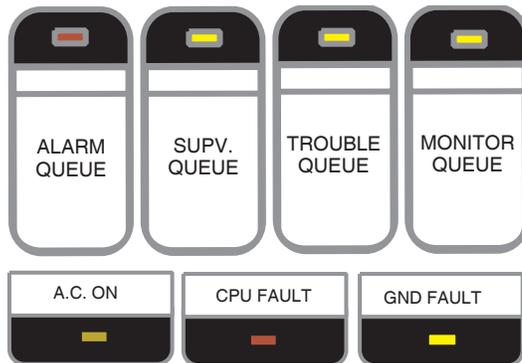


Figure 4 Classic Display: Common Indicators

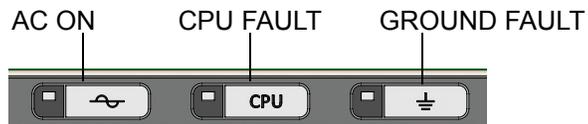


Figure 5 New DS Display: AC On, CPU Fault, Ground Fault



Figure 6 New DS Display: Alarm Queue, Supervisory Queue, Trouble Queue, Building Queue

Buzzer

The buzzer is activated by any of the following:

- **Fire alarm:** steady
- **Supervisory alarm:** fast flash rate
- **Trouble:** trouble flash rate
- **Monitor/Building:** Configurable to sound at trouble flash rate

If the buzzer turns on in response to a non-latching trouble or supervisory, it will turn off if the condition causing it goes away and there is no other reason for it to be on.

AC On LED

The AC On LED illuminates steady green while the main AC power is within acceptable levels. It turns off when the power level falls below the power-fail threshold and the panel switches to standby (battery) power.

Alarm Queue LED

The Alarm LED flashes red whenever the panel is in alarm. An alarm results from any alarm on any point or input programmed as alarm or activation of the manual red General Alarm button (if the panel is set for two stage operation). The Alarm Queue LED will illuminate steadily once *all* alarms in the queue have been reviewed using the Alarm Queue button. Since all alarms are latched until the panel is reset, the LED will remain on until then.

Supervisory Queue LED

The Supv. (Supervisory) LED flashes amber when there is a supervisory alarm in the panel resulting from any latching or non-latching supervisory circuit. The LED turns off if all non-latching supervisory circuits are restored and there are no active latching supervisory circuits. The Supv. Queue LED will illuminate steadily once *all* supervisory alarms in the supervisory queue have been reviewed using the Supv. Queue button. Latching supervisory alarms remain active until the panel is reset.

Trouble Queue LED

The Trouble LED flashes amber at the trouble flash rate when the panel detects any trouble condition. The LED turns off after all non-latching troubles are cleared. The Trouble Queue LED will illuminate steadily once all troubles in the trouble queue have been reviewed using the Trouble Queue button.

Monitor/Building Queue LED

The Monitor/Building LED flashes amber at the trouble flash rate when the panel detects any Monitor condition. It turns off after all monitor troubles are cleared.

CPU Fault LED

The CPU Fault LED flashes amber at the trouble flash rate when the main CPU fails.

Ground Fault LED

The Ground Fault LED flashes amber at the trouble flash rate when the Ground Fault Detector detects a ground fault on any field wiring. It turns off after the fault is cleared.

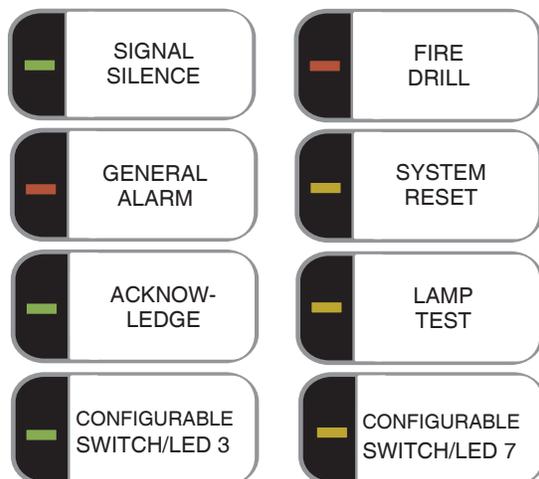


Figure 7 Classic Display: Controls and Indicators

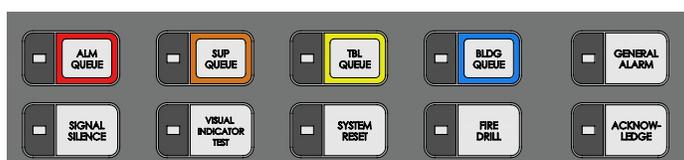


Figure 8 New DS Display: Controls and Indicators

Signal Silence LED

The Signal Silence LED flashes amber at the trouble flash rate after indicating circuits are silenced either by the Signal Silence button, or by the Auto Signal Silence Timer. It turns off after the signals are re-sounded by a subsequent alarm.

Fire Drill LED

The Fire Drill LED turns on steady amber while Fire Drill is active.

General Alarm LED

In two stage operation only, the red General Alarm LED illuminates steadily after the General Alarm button is pressed, or after the Auto General Alarm Timer times out. Once the General Alarm LED turns on, it will stay active until the panel is reset.

System Reset LED

The amber System Reset LED will illuminate steadily after the system reset button has been pressed and the system is resetting.

Acknowledge LED

If the panel is configured as a two stage system, the Acknowledge LED flashes amber at the fast flash rate while the General Alarm timer is timing. It turns on steady amber after the Auto General Alarm Timer is cancelled by the activation of the Acknowledge or Signal Silence buttons. If the Auto General Alarm Timer times-out and puts the panel into General Alarm, the Acknowledge LED turns off.

Lamp Test/Visual Indicator Test LED

The amber Lamp Test LED will illuminate steadily after the Lamp Test button is pressed and while system is in Lamp Test mode.

Configurable LED Indicators

Configurable LED indicators include 16 bi-coloured LEDs that are available for alarm, supervisory, and monitor annunciation paired with 16 trouble LEDs available for trouble annunciation.

Common Controls

LCD Display

The display is a large, four line, 20 character back-lit alphanumeric LCD. It displays information regarding the panel, its circuits, and devices. An on-screen cursor is controlled by the cursor buttons (located to the right of the display) for menu selection and control. Report information provided by the LCD display include Alarm Log, Event Log, Current Levels, Verification, and Maintenance reports.

Queue Buttons

Use the queue buttons to select a particular queue to review.

- Use the **Alarm Queue** button to view all alarms. Pressing this button will show the latest alarm on the LCD display. Use  and  to view all previous alarms.
- Use the **Supervisory Queue** button to view all supervisory conditions. Pressing this button will show the latest supervisory information on the LCD display. Use  and  to view all previous supervisory conditions on the LCD display.
- Use the **Trouble Queue** button to view all trouble conditions. Pressing this button will show the latest trouble condition on the LCD display. Use  and  to view any previous troubles.

- Use the **Monitor/Building Queue Button** to show all monitor conditions. Pressing this button will show the latest monitor information on the LCD display. Use  and  to view all queued monitor conditions.

Queues are displayed on the screen according to a priority sequence. Queue priority ranking from highest to lowest is as follows: alarm, supervisory, trouble, and monitor. If, for example, you are viewing a monitor queue and an alarm occurs, the display will immediately display the alarm condition. Also, if there is no activity on the system for 10 seconds after you have pressed a queue button, the display will switch to the highest priority condition.

Cursor Buttons

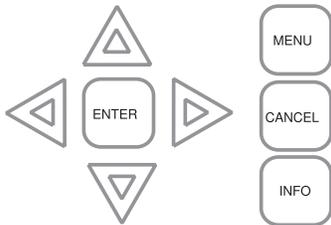


Figure 9 Classic Display: Cursor Buttons

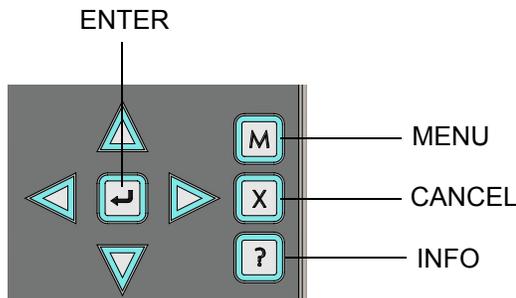


Figure 10 New DS Display: Cursor Buttons

Located around the Enter button, the cursor buttons up (previous), down (next), right, and left allow you to select items on the LCD display. The up and down buttons scroll through lists in a continuous loop.

Enter Button

Use this button to select a displayed item on the LCD display.

Cancel Button

Use this button to cancel an operation or exit a menu.

Menu Button

Use this button to view the Command Menu.

Info Button

Push and hold this button to get detailed information about any displayed item.

Signal Silence Button

Pressing the Signal Silence button after the panel is in alarm turns on the Signal Silence LED and deactivates any silenceable indicating circuits. Non-silenceable circuits are unaffected. Signals will re-sound upon any subsequent alarm. This button does not function during any configured Signal Silence Inhibit Timer period. It also does not function if indicating circuits are active as the result of a fire drill. In a two stage system, if the Auto General Alarm Timer has not timed out, the Signal Silence button also performs the same function as the Acknowledge button.

Fire Drill Button

The Fire Drill button activates all programmed and non-disconnected indicating circuits, but does not transmit any alarms via the city tie or common alarm relay. The Fire Drill button may be programmed to operate specific indicating circuits. The fire drill is cancelled either by pressing the Fire Drill button again (toggle switch) or if the panel goes into a real alarm.

General Alarm Button (Two Stage Only)

If the panel is *not* configured for two stage operation, this button does nothing. If the panel is configured for two stage operation, activation of the General Alarm button immediately sends the panel into second stage general alarm. It will also re-activate the signals if they have been silenced during general alarm. The general alarm condition remains active until the panel is reset. Silenceable signals can be silenced using the Signal Silence button.

System Reset Button

The System Reset button resets the panel and all circuits:

- Resets all Latching Trouble Conditions
- Resets 4-Wire Smoke Supply
- Turns off Signal Silence, Ack & GA LEDs
- Stops and resets all Timers
- Aux Disconnect is not affected
- Resets all Initiating Circuits
- Turns off all Indicating Circuits
- Turns off Fire Drill
- Processes inputs as new events
- Reset cannot be activated until the Signal Silence Inhibit timer has expired



ATTENTION: After power-up, press the System Reset button to bring the system to normal.

Acknowledge Button (Two Stage Only)

If the panel is *not* configured for two stage operation, this button could be configured for a different operation. If the panel is configured for two stage operation, activation of the Acknowledge button while the Auto General Alarm Timer is timing (e.g. there is an alarm in the panel but it is still in the first stage) cancels the timer and turns the Acknowledge LED on steady amber.

Lamp Test Button

Pressing and holding the Lamp Test button causes all front panel indicators to illuminate and sounds the buzzer steadily. Bi-coloured LEDs will illuminate twice to show both colors. If lamp test is active for more than ten seconds, the Common Trouble LED activates.

Configurable Switches/LEDs

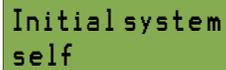
These two switches and LEDs can be used for any function listed in the FX-2000 Configurator Program. Such functions include Buzzer Silence, Aux. Disc., and Total Evacuation, Bypass, System Inputs, and Fan Control.

Troubleshooting

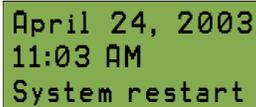
Message	Description
Unconfigured CPU Trouble	This message appears when additional annunciators or loop adders are physically connected to the panel but are not programmed in the Configurator or are configured for the wrong address.
I/O Adder Mismatch Trouble	This message displays when the hardwired adder modules are in the wrong order or the wrong quantity. If the number of physical hardwired adder modules does not match the number of modules listed in the configuration, the panel will display this message. It will also display this message if the adder modules are not connected.
Display Mismatch Trouble	This message displays when the number of display modules (RAX-1048/TZ, FDX-008, RAX-2096, IPS-2424) connected to the panel do not match the number and the order of display modules listed in the configuration. Make sure the display modules are connected.
Unconfigured Device Trouble	This message displays when an analog device is physically installed but does not appear in the configuration program.
Printer Data Loss Trouble	This message displays when a printer is configured but not physically connected to the panel and a message is sent to the printer. Pressing the System Reset button will clear this trouble.
Slave (RAX-LCDs) Configuration Version Mismatch Trouble	This message displays when the firmware versions on all the CPUs are not compatible.
Slave (RAX-LCDs) Configuration Address Mismatch Trouble	This message displays when the address(es) of the configured slaves does not match.
Slave Configuration Type Mismatch	This message displays if the physical loop adder does not match the loop adder type specified in the configuration program. For example, you will see this message if the physical adder module is an ALC-396 and the specified adder module in the configuration program is an ALC-H16.
Wrong Device Type	This message displays if the type of analog device does not match the type that is listed in the configuration program. For example, you will see this message if an ionization sensor at address 013 is physically connected to the panel but the configuration program has address 013 listed as a photoelectric sensor (or vice versa).
Multiple Unconfigured Device Trouble	This message displays if there are two identical (duplicate) devices at the same address on the same loop.
Data Link Failure	This message displays if the panel cannot communicate with a remote annunciator or an internal CPU on an adder module.
Data Link Trouble	This message displays when the panel has a communication error with a remote annunciator.
Program Version Mismatch (displayed on the RAX-LCD only)	This message displays when the RAX-LCD firmware version is not compatible with the FX-2000 firmware version.
Configuration Data Error (RAM)	This message displays if the system is overloaded and risks resetting itself. Reload the Configurator and/or reboot the system by powering it down and then powering it up.
Configuration Data Error (FLASH)	This message displays if the system is overloaded and risks resetting itself. If this error should occur, please report it to Mircom's Technical Support Department.

Start Up

When the system is plugged in and the batteries are connected, the front display will show:

A green rectangular box containing the text "Initial system self" in a monospaced font.

Let the system initialize for approximately 40 seconds to one minute. You will then get a trouble condition, as shown below.

A green rectangular box containing the text "April 24, 2003", "11:03 AM", and "System restart" in a monospaced font, stacked vertically.

To reset the panel to normal, press the System Reset button. If there is a trouble after you reset the system, then it is a true trouble that should be traced and eliminated.

If there is an alarm, supervisory, trouble, or monitor condition in the system, pressing the appropriate queue button and holding **INFO** () will display information on the cause of the alarm, supervisory, trouble, or monitor device activation.



Note: To display the configuration software version, press **MENU** (), then hold

INFO ().

Menu Mode

Press the **MENU** () button to activate the menu mode. The menu is broken down as follows:

Menu	Submenu	Description	How to Use
1. Reports	Alarm Log	Print the Alarm Log.	See page 14.
	Event Log	Print the Event Log.	See page 14.
	Current Levels	Print the Current Levels.	See page 15.
	Verif. Count	Print the Verified Count.	See page 16.
	Maint Report	Print the Maintenance Report.	See page 17.
2. Bypass	Device/ Circuit	Bypass/unbypass a Device/Circuit.	See page 19.
	Loop	Bypass/unbypass a Loop.	See page 20.
	Relay disc	Disconnect/reconnect all relays.	See page 21.
3. Walk Test	Audible Test	Perform an audible walktest.	See page 23.
	Silent Test	Perform a silent walktest.	See page 24.
4. Change Passcode	N/A	Change all passcodes.	See page 26.
5. Day/night mode	N/A	Select day or night mode.	See page 27.
6. Set time/date	N/A	Set the time and date.	See page 28.
7. Clear Event Log	Alarm Log	Clear the Alarm Log.	See page 29.
	Event Log	Clear the Event Log.	See page 29.
	All Logs	Clear all the logs.	See page 29.
8. Clear Verification Counter	N/A	Clear all verification counters.	See page 30.
9. Auto Program	N/A	Automatically programs the system when a device is added or removed.	See page 31.



Note: If you have used the Configurator to program the “Enable Required” option in the Command Menu, the Command Menu list will appear differently than that which is shown above. Menu option three will read “Enable Required”, and “Walk Test” will move to menu option four. All subsequent menu options will similarly be renumbered. For more information on the Enable Required option, see page 25.

Passcodes

Factory Defaults

Passcodes provide three different levels of menu access. These levels are set during configuration and are available on the following features:

- Reports
- Aux. Bypass
- Device Bypass
- Loop Bypass
- Walk Test
- Change Passcode
- Set After Hours
- Set Time/Date
- Clear Event Log
- Clear Verification Count
- Auto Program
- Manual Enable



Note: You can change these access levels via the Configurator.

Changing and entering your passcode

For instructions on how to change and enter passcodes in the system, see page 26.

Front Panel Menu Operation

1. Reports Menu

Use the Reports Menu to print the Alarm Log, Event Log, Current Levels, Verified Counts, and Maintenance reports. You can print to the screen, directly to a printer connected to the panel, or to your laptop computer (using HyperTerminal).



Note: To print a report to a printer or to a laptop (using HyperTerminal), the printer output must be enabled via the Configurator.

To enter the Reports Menu, you must be in the Command Menu. To enter the Command Menu, press **MENU** () when the display is in normal mode.

Step 1: Select the Reports Menu

```
- Command
Menu -
1 Reports
2 Bypass v
```

1. Use  and  to scroll the cursor to "Reports".
2. Press **ENTER** () to select the Reports Menu.

Step 2: Enter your passcode (if required)

```
Enter
passcode for
level 2 or
higher:
```

Enter your passcode. See page 26 for instructions on entering passcodes.

Step 3: Select the option you would like to view

```
- Reports
Menu -
1 Alarm Log
2 Event Log v
```

1. Use  and  to scroll the cursor through the menu.
2. Press **ENTER** () to select an option.
3. Press **CANCEL** () to exit and return to the Reports Menu. Repeat to exit to the Command Menu.

The following subsections provide instructions on using each Reports Menu option.

Alarm Log

The Alarm Log reports on all alarm events. Alarm events are listed in order of the most recent event to the earliest. The maximum number of recorded alarm log entries is 1000. Once the system reaches 1000 entries, any new entry will cause 500 of the oldest entries to be deleted.

Step 1: Select the Alarm Log

```
- Reports
Menu -
1 Alarm Log
2 Event Log v
```

1. Use  and  to scroll to "Alarm Log".
2. Press **ENTER** () to continue.

At this point the display will vary, depending on whether or not a printer is connected to the panel.

If a printer is not connected to the panel, the Alarm Log will print to the display.

- Use  and  to scroll the cursor through the log.
- Hold **INFO** () down for more information on the logged event.

Press **CANCEL** () to exit to the Reports Menu.

If a printer is connected to the panel, follow step two, below.

Step 2: Print the Alarm Log

```
- Report to -
1 Printer
2 Screen
```

- To print the Alarm Log to the printer, press **ENTER** () when the cursor flashes beside "Printer".
- To print the Alarm Log to the screen, press  then **ENTER** () to select "Screen". Follow the instructions above to navigate the Alarm Log.

Event Log

The Event Log reports on all events: alarms, troubles, and button pushes. Events are listed in order of the latest (most recent) event to the earliest. The maximum number of recorded event log entries is 2000. Once the system reaches 2000 entries, any new entry will cause 1000 of the oldest entries to be deleted.

Step 1: Select the Event Log

```
- Reports
Menu -
1 Alarm Log
2 Event Log v
```

1. Use  and  to scroll the cursor to "Event Log".
2. Press **ENTER** () to continue.

At this point the display will vary, depending on whether or not a printer is connected to the panel.

If a printer is not connected to the panel, the Event Log will print to the display.

- Use  and  to scroll the cursor through the log.
- Hold **INFO** () down for more information on the logged event.

- Press **CANCEL** () to exit to the Reports Menu.

If a printer is connected to the panel, follow step two, below.

Step 2: Print the Event Log

```
- Report to -
1 Printer
2 Screen
```

- To print the Alarm Log to the printer, press **ENTER** () when the cursor flashes beside "Printer".
- To print the Alarm Log to the screen, press  then **ENTER** () to select "Screen". Follow the instructions above to navigate the Event Log.

Current Levels

This option reports on the current levels of addressable devices.

Step 1: Select Current Levels

```
- Reports
Menu -
1 Alarm Log
2 Event Log v
```

1. Use  and  to scroll the cursor to "Current Levels".
2. Press **ENTER** () to select the Current Levels submenu.

At this point the display will vary, depending on whether or not you have a printer connected.

- If a printer is not connected to the panel, skip to step three.
- If a printer is connected to the panel, follow steps two and three, below.

Step 2: Print the Current Levels

```
- Report to -
1 Printer
2 Screen
```

- To print the Current Levels report to the printer, press **ENTER** () when the cursor flashes beside "Printer".
- To print the Current Levels report to the screen, press  then **ENTER** () to select "Screen". Follow the instructions above to navigate the Current Levels.

Step 3: Select loop number

```
-Select Loop
Number -
Loop: A L L
```

- Select a loop number by using  and  to scroll through the numbers, or
- Select all loop numbers by pressing **ENTER** ()

Wait five seconds. Use  and  to scroll the cursor through the loops.

If you print the Current Levels to the screen,

- Use  and  to scroll the cursor through the log.

- Press and hold **INFO** () for more information on the current level.
- Press **CANCEL** () to exit to the Reports Menu.

For example, if you select loop two, the screen will appear as follows:

```
Loop 2 Address
001
Low Profile ION
Det
```

- The first and second lines pinpoint the exact device.
- The **current level** is a point of reference number that is helpful to our technicians.
- The **percent alarm** shows how close the device is to going into alarm: 0% is the least likely, and 80% is the most likely.

Verified Counts

This option reports on any pre-alarmed devices that are set to verification mode. This report lists each time a device pre-alarms. If no devices are set to verification mode, then no report will display.

Step 1: Select Verified Counts

```
- Reports ^
Menu -
2 Event Log
3 Current v
```

1. Use  and  to scroll the cursor to "Verif Counts".

2. Press **ENTER** () to continue.

At this point the display will vary, depending on whether or not you have a printer connected.

- **If a printer is not connected to the panel**, skip to step 3.
- **If a printer is connected to the panel**, follow steps 2 and 3, below.

Step 2: Print the Verified Counts

```
- Report to -
1 Printer
2 Screen
```

- To print the Verified Counts to the printer, press **ENTER** () when the cursor flashes beside "Printer".

- To print the Verified Counts to the screen, press  then **ENTER** () when the cursor flashes beside "Screen".

Step 3: Select loop number

```
-Select Loop
Number -
Loop: A L L
```

- Select a loop number by using  and  to scroll through the numbers, or

- Select all loop numbers by pressing **ENTER** () and waiting five seconds. Use  and  to scroll the cursor through the loops.

Step 4: If the display shows...

No verified devices found.

...the display will return to the Reports Menu.

OR

If the display shows...

Loop 2 Address
005
Low Profile
ION Det

- Press and hold **INFO** () to view the details.
- Use  and  to scroll the cursor through the records.
- Press **CANCEL** () to exit to the Reports Menu.

Maintenance Report

This option reports on all devices that are greater than 60% of alarm.

Step 1: Select Maintenance Report

- Reports ^
Menu -
3 Current
Levels v

1. Use  and  to scroll the cursor to "Maint Report".
2. Press **ENTER** () to continue.

At this point the display will vary, depending on whether or not you have a printer connected.

- If a printer is not connected to the panel, skip to step 3.
- If a printer is connected to the panel, follow steps 2 and 3, below

Step 2: Print the Maintenance Report

- Report to -
1 Printer
2 Screen

- To print the Maintenance Report to the printer, press **ENTER** () when the cursor flashes beside "Printer".
- To print the Maintenance Report to the screen, press  then **ENTER** () when the cursor flashes beside "Screen".

Step 3: Select loop number

-Select Loop
Number -
Loop: _ _ _

- Select a loop number by using  and  to scroll through the numbers, or
- Select all loop numbers by pressing **ENTER** () and waiting five seconds.

Step 4: If the screen shows...

```
No dirty devices
found.
```

...the display will return to the Reports Menu.

OR

If the display shows...

```
Loop 2
Address 001
Low Profile ION
Det
```

- Press and hold **INFO** () to view the details.
- Use  and  to scroll the cursor through the records.
- Press **CANCEL** () to exit to the Reports Menu.

2. Bypass Menu

Use the Bypass Menu when you want to bypass or unbypass devices, hardware circuits, complete addressable loops, or outputs such as relays and signals.

To enter the Bypass Menu, you must be in the Command Menu. To enter the Command Menu, press **MENU** () when the display is in normal mode.

Step 1: Select the Bypass Menu

```
- Command Menu
-
1 Reports
2 Bypass v
```

1. Use  and  to scroll the cursor to "Bypass".
2. Press **ENTER** () to select the Bypass Menu.

Step 2: Enter your passcode (if required)

```
Enter
passcode for
level 2 or
higher:
```

Enter your passcode. *See page 26 for instructions on entering passcodes.*

Step 3: Select the option you would like to view

```
- Bypass Menu
-
1 Device /
Circuit
```

1. Use  and  to scroll the cursor through the Bypass Menu.
 2. Press **ENTER** () to select an option.
- Press **CANCEL** () to exit and return to the Bypass Menu. Repeat to exit to the Command Menu.

The following subsections provide instructions on using each Bypass Menu option.

Device/Circuit Bypass

Use this option if you want to bypass or unbypass a device or circuit from the panel. Usually this is done when you need to add, remove, repair, or investigate a device or circuit.

To unbypass the device or circuit, follow the same procedure for device/circuit bypass.

Step 1: Select Device/Circuit

```
- Bypass Menu
-
1 Device /
  Circuit
```

Press **ENTER** () when the cursor is flashing beside "Device/Circuit" to select a device.

Step 2: Enter your passcode

```
Enter
passcode for
level 1 or
higher:
```

Enter your passcode. See page 26 for instructions on entering passcodes.

Step 3: Select a device

```
- Select Device
-
Loop: 0
Device: 0 0 0
```

1. Use  and  to select the loop and device number.
2. Enter the loop number, then press **ENTER** ()
3. Enter the device number, pressing  and  as needed to move left and right.
4. Press **ENTER** () to continue.

Step 4: Bypass the device/circuit

```
Strobe Output
Floor 2
L0 000 not
bypassed.
```

1. The systems now asks you whether or not you would like to bypass or unbypass the device. Use  and  to select "yes" or "no".
2. Press **ENTER** () to continue.

At this point the display will vary, depending on your choice:

- **If you selected "yes"**, the system will display the message "Device/Circuit bypassed (unbypassed)", then it will return to the Bypass Menu.
- **If you selected "no"**, the system will display the message "Operation cancelled", then it will return to the Bypass Menu.

Unbypassing an active device/circuit

When you unbypass a device or circuit that went into alarm while it was bypassed, you will see the following message:

```
Warning: This
output
device is active.
Do you really
```

If you select “yes” to unbypass this device, the system will immediately go into alarm. To avoid this problem, press the System Reset button before unbypassing a device or circuit.

Loop Bypass



WARNING: Bypassing a loop will disable all input and output devices in that loop.

Use this option if you want to bypass an entire loop of addressable devices from the panel. Usually this is done during building maintenance.

To unbypass the loop, follow the same procedures for loop bypass.

Step 1: Select Loop Bypass

```
- Bypass Menu
-
1 Device /
Circuit
```

1. Use  and  to scroll the to “Loop”.
2. Press **ENTER** () to continue.

Step 2: Select a loop number

```
-Select Loop
Number -
Loop: 0
```

1. Use  and  to select the loop number.
2. Press **ENTER** () to continue.

Step 3: Bypass the loop

```
Loop 0 currently
not bypassed
Bypass? Y
```

1. The systems now asks you whether or not you would like to bypass or unbypass the loop. Use  and  to select “yes” or “no”.
2. Press **ENTER** () to continue.

At this point the display will vary, depending on your choice:

- **If you selected “yes”**, the display will either show the message “Loop bypassed” or “Loop unbypassed”, then return to the Command Menu.
- **If you selected “no”**, the display will show the message “Operation cancelled” and will then return to the Command Menu.

Unbypassing an active loop

When you unbypass a loop that went into alarm while it was bypassed, you will see the following message:

Warning: This loop is active. Do you really want to unbypass it?

If you select “yes” to unbypass this loop, the system will immediately go into alarm. To avoid this problem, press the System Reset button before unbypassing the loop.

Relay Disconnect

This option is useful if you want to disconnect or reconnect the aux relays.

Step 1: Select Relay Disconnect	
- Bypass Menu - 1 Device / Circuit	1. Use  and  to scroll the cursor to “Relay Disc”. 2. Press ENTER () to continue.
Step 2: Select “yes” or “no”	
Common aux relays currently connected	1. The systems now asks you whether or not you would like to bypass the aux relays. Use  and  to select “yes” or “no”. 2. Press ENTER () to continue.

At this point the display will vary, depending on your choice:

- **If you selected “yes”**, the display will either show the message “Relays disconnected” or “Relays reconnected”, then it will return to the Command Menu.
- **If you selected “no”**, the display will show the message “Operation cancelled”, then it will return to the Command Menu.

3. Walk Test Menu

Use the Walk Test Menu when you want to test the devices in a system. Performing a walk test will place the system in trouble (non-latching). The Walk test will be aborted if no circuit activations are detected for one hour.



Notes:

- Walk test records that are printed to the screen will be stored in the event log.
- To print the walk test to a printer or to a laptop (using HyperTerminal), the printer output must be enabled via the Configurator.

To enter the Walk Test Menu, you must be in the Command Menu. To enter the Command Menu, press **MENU** () when the display is in normal mode.

Step 1: Select the Walk Test Menu

```
- Command Menu
-
1 Reports
2 Bypass
```

1. Use  and  to scroll the cursor to "Walktest".
2. Press **ENTER** () to select the Walk Test Menu.

Step 2: Enter your passcode (if required)

```
Enter
passcode for
level 1 or
higher:
```

Enter your passcode. *See page 26 for instructions on entering passcodes.*

Step 3: Select the option you would like to view

```
- Walktest -
1 Audible Test
2 Silent Test
```

1. Use  and  to scroll the cursor through the menu.
 2. Press **ENTER** () to select an option.
- Press **CANCEL** () to exit and return to the Walk Test Menu. Repeat to exit to the Command Menu.

The subsections below provide instructions on using each Walk Test Menu option.

Audible Test

During this test, alarm activation of any input device will activate all signals for one half second. Trouble activation on any input device will activate all signals continuously for one second.



Note: Audible devices connected to an addressable output module will not sound in Audible Test mode.

Step 1: Select Audible Test

```
- Walktest -
1 Audible Test
2 Silent Test
```

1. Use and to scroll the cursor to "Audible Test".
2. Press **ENTER** () when the cursor flashes beside "Audible Test" to select the Audible Test. The test will now begin.

Step 2: View the Walk Test

```
- Walktest
Active -
Alarms: 0
Troubles: 0
```

As the test runs, the Alarms and Troubles count will increase as they are recorded (logged) during the Audible Test.

Press **ENTER** () to end the walk test.

At this point the display will vary, depending on whether or not a printer is connected to the panel.

If a printer is not connected to the panel, the walk test will print to the display.

- Use and to scroll the cursor through the log.
- Hold **INFO** () down for more information on the logged event.

Press **CANCEL** () to exit to the normal system display and clear the Walk Test log.

If a printer is connected to the panel, follow step three, below.

Step 3: Print the Walk Test

```
- Report to -
1 Printer
2 Screen
```

- To print the Walk Test to the printer, press **ENTER** () when the cursor flashes beside "Printer".
- To print the walk test to the screen, press then **ENTER** () to select "Screen". Follow the instructions above to navigate the Walk Test log.

Silent Test

During this test, alarm and trouble activation of any input device will be recorded by the system but it will not sound the signals. For the system to register a trouble, you must keep the device in a trouble condition for 10 seconds.

Step 1: Select Silent Test

```
- Walktest -
1 Audible Test
2 Silent Test
```

1. Use  and  to scroll the cursor to "Silent Test".
2. Press **ENTER** (). The test will now begin.

Step 2: View the Walk Test

```
- Walktest
Active -
Alarms: 0
Troubles: 0
```

As the test runs, the Alarms and Troubles count will increase as they are recorded (logged) during the Audible Test.

Press **ENTER** () to end the Walk Test.

At this point the display will vary, depending on whether or not a printer is connected to the panel.

If a printer is not connected to the panel, the walk test will print to the display.

- Use  and  to scroll the cursor through the log.
- Hold **INFO** () down for more information on the logged event.

Press **CANCEL** () to exit to the normal system display and clear the Walk Test log.

If a printer is connected to the panel, follow step three, below.

Step 3: Print the Walk Test

```
- Report to -
1 Printer
2 Screen
```

- To print the walk test to the printer, press **ENTER** () when the cursor flashes beside "Printer".
- To print the walk test to the screen, press  then **ENTER** () to select "Screen". Follow the instructions above to navigate the Walk Test log.

Alternate Menu Option #3: Manual Control Enable



Notes:

- You will see this option in the Command Menu only if your system has been programmed for manual control.
- This feature does not change after a system reset.

This option provides security on the panel control buttons by requiring the user to enter a passcode or activate a key switch before a specific button will operate. This “manual control” feature is set up using the Configurator, and can affect any number of control buttons. Selecting the Enable Required option in the Command Menu or turning the key switch allows you to activate and deactivate this feature.

Selecting Manual Control Enable from the Menu

To select the Enable Required option, you must be in the Command Menu. To enter the Command Menu, press **MENU** () when the display is in normal mode.

Step 1: Select Manual Enable	
<pre>- Command Menu - 1 Reports 2 Bypass</pre>	<p>1. Use  and  to scroll the cursor to “Man Ctrl Enable”.</p> <p>2. Press ENTER () to continue.</p>
Step 2: Enter your passcode	
<pre>Enter passcode for level 1 or higher:</pre>	<p>Enter your passcode. See page 26 for instructions on entering passcodes.</p>
Step 3: Enable manual control	
<pre>Manual control currently disabled.</pre>	<p>1. The systems now asks you whether or not you would like to enable manual control. Use  and  to select “yes” or “no”.</p> <p>2. Press ENTER () to continue.</p>

The display will now show the message “Manual control enabled” while in normal mode, and the panel will be in a trouble condition. To check which annunciator manual control was enabled on, press the **INFO** () button. To disable manual control, follow the same steps outlined above.

Selecting manual control enable using a key switch

You can set up the FX-2000 to require the activation of a key switch instead of a passcode to enable manual control. Once the key switch is operated, the display will show the message “Manual control enabled” while in normal mode, and the panel will be in a trouble condition. To check which annunciator manual control was enabled on, press the **INFO** () button. To disable manual control, reset the key switch.

4. Change Passcode

Use passcodes to restrict access to specific menu levels. See *Passcodes* on page 12 for details. To enter the Change Passcode option, you must be in the Command Menu. To enter the Command Menu, press **MENU** () when the display is in normal mode.

Step 1: Select Change Passcode

<pre>- Command Menu - 2 Bypass 3 Walktest</pre>	<ol style="list-style-type: none"> 1. Use  and  to scroll the cursor to "Change Passcode". 2. Press ENTER () to continue.
---	---

Step 2: Enter your current passcode

<pre>Enter passcode for level 1 or higher:</pre>	<p>Enter the passcode that you would like to change. See below for instructions on entering passcodes.</p>
--	--

Step 3: Enter your new passcode

<pre>Enter new passcode ----- ---</pre>	<ol style="list-style-type: none"> 1. Enter the new passcode. 2. Press ENTER () 3. Re-enter the passcode for verification. 4. Press ENTER () . The display now returns to the Command Menu.
---	--

Entering passcodes

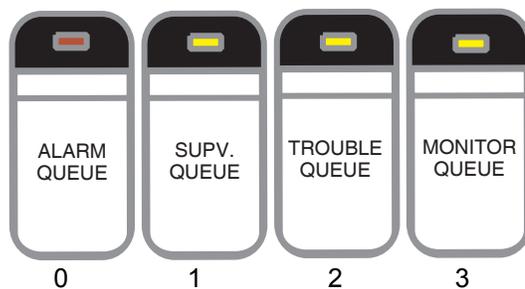


Figure 11 Passcodes on Classic Display



Figure 12 Passcodes on New DS Display

To enter passcodes, press the

- Alarm Queue button for the number 0

- Supv. Queue button for the number 1
- Trouble Queue button for the number 2
- Monitor/Building Queue button for the number 3

Since there is no number available above three, your passcodes will consist of any combination of zero, one, two, and three (up to 20 digits).

5. Day/Night Mode

Using the Configurator you can program day mode and night mode separately for different system sensitivity levels. Select the Day/Night mode option in the Command Menu if you would like to manually set the Day/Night mode.

To enter the Day/Night Mode option, you must be in the Command Menu. To enter the Command Menu, press **MENU** () when the display is in normal mode.

Step 1: Select Day/Night Mode

<div style="background-color: #8ebf8e; color: black; padding: 5px; border: 1px solid black;"> - Command Menu - 3 Walktest 4 Change </div>	<ol style="list-style-type: none"> 1. Use  and  to scroll the cursor to “Day/Night mode” 2. Press ENTER () to continue.
---	---

Step 2: Enter your passcode (if required)

<div style="background-color: #8ebf8e; color: black; padding: 5px; border: 1px solid black;"> Enter passcode for level 2 or higher: </div>	<p>Enter your passcode. See page 26 for instructions on entering passcodes.</p>
--	---

Step 3: Select “yes” or “no”

<div style="background-color: #8ebf8e; color: black; padding: 5px; border: 1px solid black;"> Day/night mode set to auto daytime </div>	<ol style="list-style-type: none"> 1. Use  and  to select “yes” or “no”. 2. Press ENTER () to continue.
---	---

At this point the display will vary, depending on your choice:

- **If you selected “yes”**, continue to step 3.
- **If you selected “no”**, the display will show the message “Operation cancelled”, and then it will return to the Command Menu.

Step 4: Select Mode

<div style="background-color: #8ebf8e; color: black; padding: 5px; border: 1px solid black;"> - Select Mode - 1 Manual Daytime </div>	<ol style="list-style-type: none"> 1. Use  and  to select “Manual Daytime”, “Manual Night”, or “Auto day/night”. 2. Press ENTER () to continue. The display will now return to the Command Menu.
---	--



Note: The panel will stay in the mode you select until you change it to another mode.

6. Set Time/Date



Note: Select this option if you would like to set the time only. You must use the Configurator to change the date.

To enter the Set Time/Date option, you must be in the Command Menu. To enter the Command Menu, press **MENU** () when the display is in normal mode.

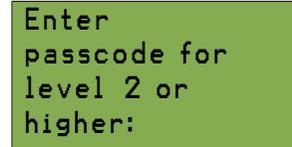
Step 1: Select Set Time/Date



```
- Command Menu
-
4 Change
Passcode
```

1. Press **MENU** () to select the Command Menu.
2. Use  and  to scroll the cursor to "Set Time/Date".
3. Press **ENTER** () when the cursor flashes beside "Set Time/Date" to select the Set Time/Date option.

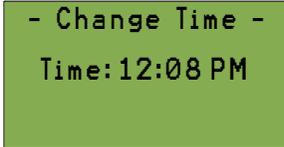
Step 2: Enter your passcode (if required)



```
Enter
passcode for
level 2 or
higher:
```

Enter your passcode. See page 26 for instructions on entering passcodes.

Step 3: Set the Time



```
- Change Time -
Time: 12:08 PM
```

- Use  and  to change the time.
- Use  and  to move from hours, to minutes, to AM/PM.
- When you are finished, press **ENTER** () to return to the Command Menu.

7. Clear Event Log

Select this option if you would like to clear the Alarm Log, Event Log, or all the logs.

To enter the Clear Event Log option, you must be in the Command Menu. To enter the Command Menu, press **MENU** () when the display is in normal mode.

Step 1: Select Clear Event Log

```
- Command Menu
-
5 Day/Night
mode
```

1. Use  and  to scroll the cursor to “Clear Event Log”.

2. Press **ENTER** () to continue.

Step 2: Enter your passcode (if required)

```
Enter
passcode for
level 2 or
higher:
```

Enter your passcode. See page 26 for instructions on entering passcodes.

Step 3: Select the log to clear

```
- Select Log -
1 Alarm Log
2 Event Log
3 All Logs
```

•Use  and  to select the log you would like to clear.

•Use  and  to select “yes” or “no”.

•Press **ENTER** () to continue. The display will now return to the Command Menu.

```
Are you sure
you
want to clear
all
```

8. Clear Verification Counter

Select this option if you would like to clear the verification counter.

To enter the Clear Verification Counter Option, you must be in the Command Menu. To enter the Command Menu, press **MENU** () when the display is in normal mode.

Step 1: Select Clear Verification Counter

```
- Command Menu
-
6 Set Time/
Date
```

1. Use  and  to scroll the cursor to "Clear Verification Counter".
2. Press **ENTER** () to continue.

Step 2: Enter your passcode (if required)

```
Enter
passcode for
level 2 or
higher:
```

Enter your passcode. See *page 26* for instructions on entering passcodes.

Step 3: Select "yes" or "no"

```
Clear all
verification
counters? Y
```

1. Use  and  to select "yes" or "no".
2. Press **ENTER** () to continue.

At this point the display will vary, depending on your choice:

- **If you selected "yes"**, the display shows the message "Counters cleared ", then it will return to the Command Menu.
- **If you selected "no"**, the display shows the message "Operation cancelled", then it will return to the Command Menu.

9. Auto Program

Use Auto Program whenever a device is added or removed without the Configurator. For example, if a new device is added to a loop, the FX-2000 display will show the following while in normal mode:

```
May22, 2002
11:05AM
Unconfigured
device
```

The Auto Program function has specific default settings. For example, a new point defaulted as alarm will have the following settings:

- No LED correlations
- Will activate all signals (common alarm)
- Does not activate any relay outputs
- No device label is attached

Any changes to these default settings must be performed using the Configurator.

To enter the Auto Program option, you must be in the Command Menu. To enter the Command Menu, press **MENU** () when the display is in normal mode.

Step 1: Select Auto Program

```
- Command Menu
-
7 Clear Event
Log
```

1. Use  and  to scroll the cursor to "Auto Program".
2. Press **ENTER** () to continue.

Step 2: Enter your passcode (if required)

```
Enter
passcode for
level 1 or
higher:
```

Enter the passcode that you would like to change. See *page 26 for instructions on entering passcodes.*

Step 3: Select "yes" or "no" to auto program

```
1 new device
found on 1 loop
Add with
default
```

1. Use  and  to select "yes" or "no".
2. Press **ENTER** () to continue.

At this point the display will vary, depending on your choice:

- **If you selected “yes”**, go to step four.
- **If you selected “no”**, the display shows the message “No changes requested auto program aborted”, then it will return to the Command Menu.

Step 4: Select “yes” or “no” accept/decline message

Warning: System
must be
thoroughly
rechecked when

1. Use  and  to select “yes” or “no”.
2. Press **ENTER** () to continue.

At this point the display will vary, depending on your choice:

- **If you selected “yes”**, the display shows the message “Auto programming in process “. When the auto programming is completed, the display will return to the normal system display.
- **If you selected “no”**, the display shows the message “No changes requested auto program aborted”, then it will return to the Command Menu.



Note: It is strongly recommended that you recheck all devices added through the Auto Program function.



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