



FlexNet™

FX-4000 Intelligent Fire Detection and Voice Evacuation System



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1.0 Introduction

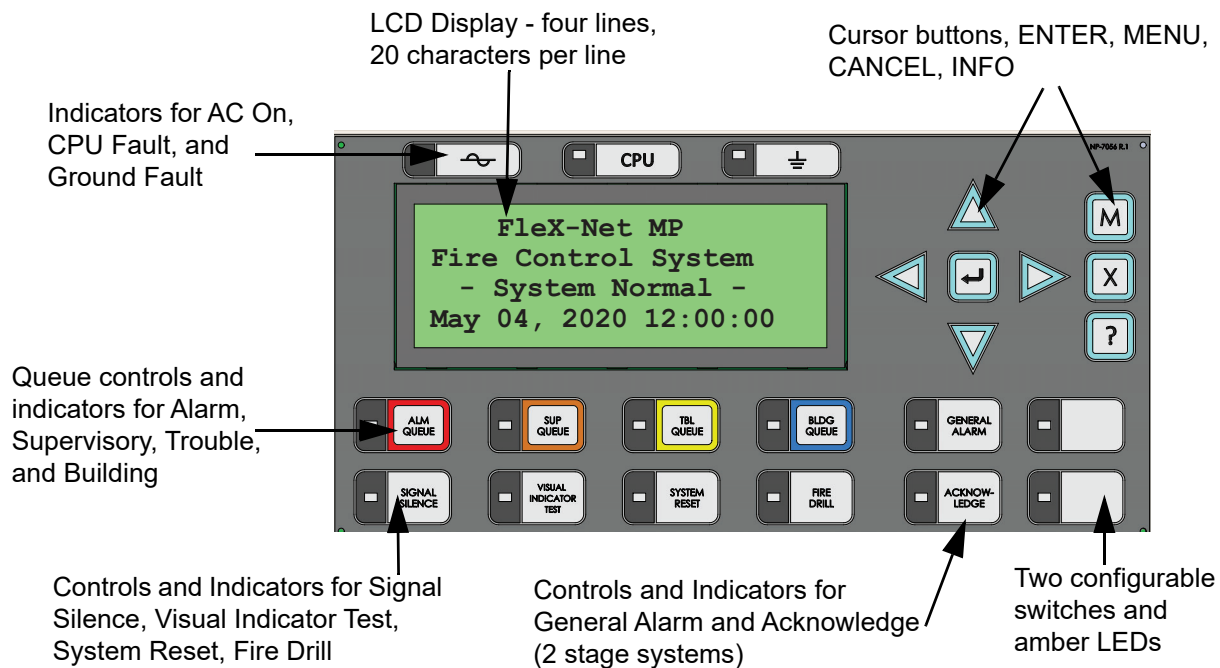
1.1 About this Manual

This user guide provides information on the Command Menu features of the FleX-Net™ FX-4000 Intelligent Fire Detection and Voice Evacuation System. 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
- Set Time
- Manually activate an input or output
- Restart the system
- Enable or disable the signal silence inhibit timer
- View the configuration information

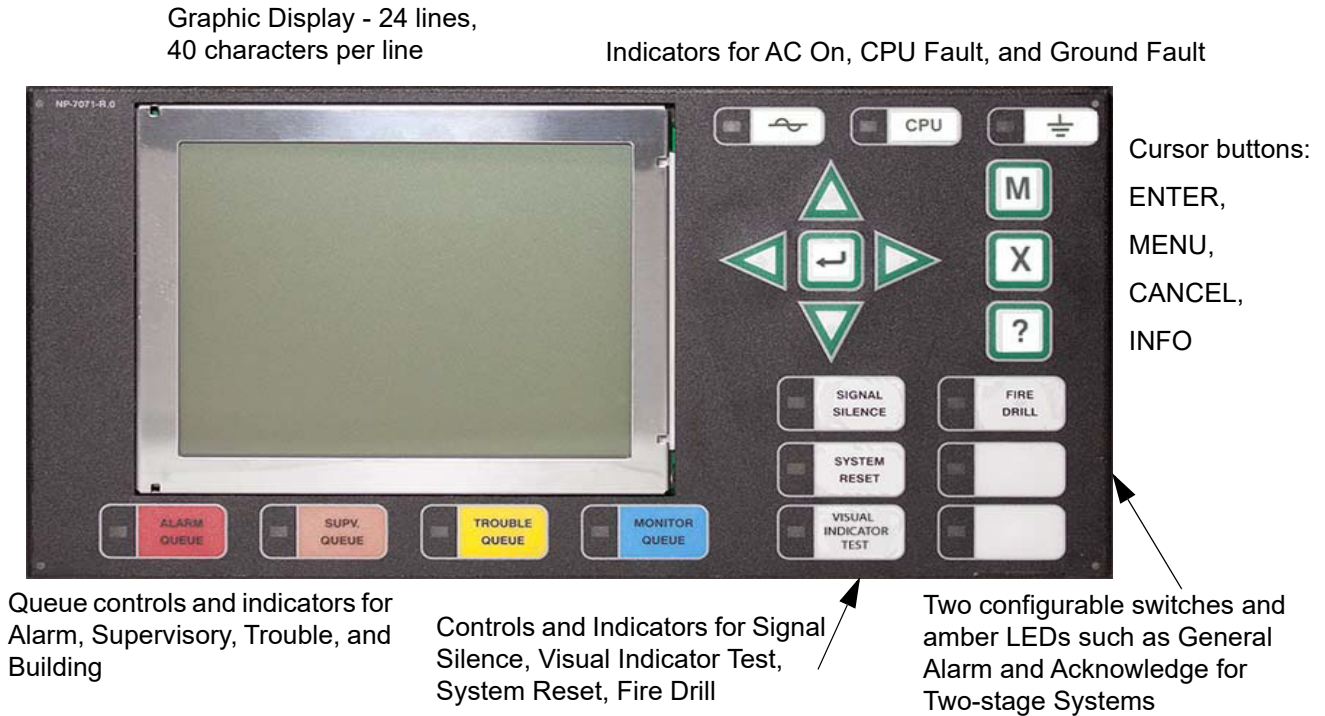
2.0 Front Panel Indicators, Controls, and Operation

2.1 Front Panel Indicators and Control Locations (Model DSPL-420DS)

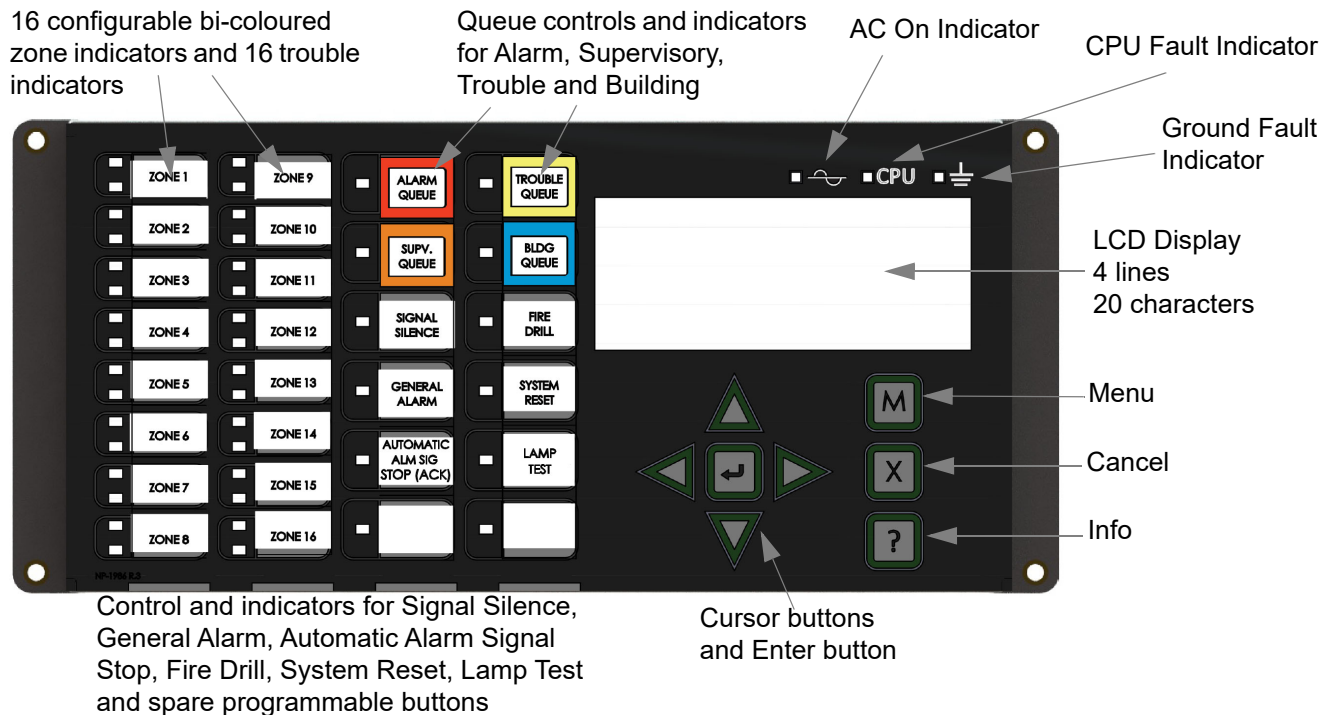


Note: The General Alarm LED and pushbutton, and the Acknowledge LED and pushbutton, are active only on a system configured for Two Stage.

2.2 Graphic Front Panel Indicators and Control Locations (Model DSPL-2440)



2.3 Front Panel Indicators and Control Locations (Model DSPL-420-16TZDS)



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

2.3.1 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 or French selection and custom-printed zone information.



Note: The Acknowledge LED and pushbutton, are active only on a system configured for Two Stage.

2.4 Common Indicators

2.4.1 Buzzer

The buzzer is activated by any of the following:

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

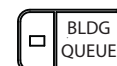
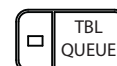
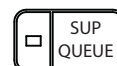
If the buzzer turns ON in response to a non-latching trouble or supervisory, it will turn OFF if the condition causing it goes away and there is no other reason for it to be ON.

2.4.2 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.

2.4.3 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. The Alarm Queue LED illuminates 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 remains ON until then.

2.4.4 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 Supervisory Queue LED illuminates 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.

2.4.5 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 illuminates steadily once all troubles in the trouble queue have been reviewed using the Trouble Queue button.

2.4.6 Building Queue LED

The BLDG Trouble LED flashes amber at the trouble flash rate when the panel detects any building monitor condition. It turns OFF after all monitor troubles are cleared.

2.4.7 CPU Fault LED



The CPU Fault LED is on steady amber when the main CPU fails.

2.4.8 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.

2.4.9 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.



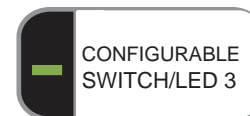
2.4.10 Fire Drill LED

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



2.4.11 General Alarm LED

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 stays active until the panel is reset.



2.4.12 System Reset LED

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

2.4.13 Acknowledge (or Automatic Alarm Signal Silence or Automatic Alarm Signal Stop) 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.

2.4.14 Lamp Test (Visual Indicator Test) LED

The amber Lamp Test LED illuminates steadily after the Lamp Test button is pressed and while system is in visual indicator Test mode.

2.4.15 Configurable LED Indicators

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













2.5 Display Controls





2.5.1 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.

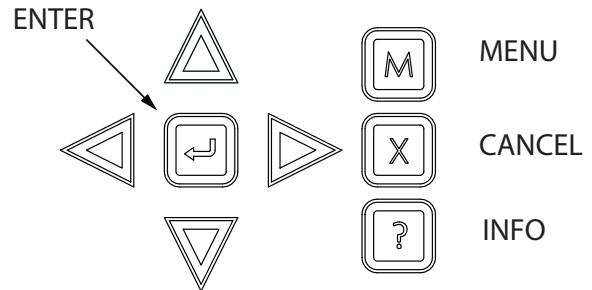
2.5.2 Queue Buttons

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

- Press the **Alarm Queue** button to cycle through all the unacknowledged alarms. Press  and  to cycle through all the alarms, both acknowledged and unacknowledged. Press the right cursor button  to scroll up by 10 events at a time. Press the left cursor button  to scroll down by 10 events at a time.
- Press the **Supervisory Queue** button to cycle through all the unacknowledged supervisory conditions. Press  and  to cycle through all supervisory conditions, both acknowledged and unacknowledged. Press the right cursor button  to scroll up by 10 events at a time. Press the left cursor button  to scroll down by 10 events at a time.
- Press the **Trouble Queue** button to cycle through all the unacknowledged trouble conditions. Press  and  to cycle through all troubles, both acknowledged and unacknowledged. Press the right cursor button  to scroll up by 10 events at a time. Press the left cursor button  to scroll down by 10 events at a time.

- Press the **Building Queue Button** to cycle through all the unacknowledged building (monitor) conditions. Press  and  to cycle through all queued monitor conditions, both acknowledged and unacknowledged. Press the right cursor button  to scroll up by 10 events at a time. Press the left cursor button  to scroll down by 10 events at a time.

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 immediately displays the alarm condition. Also, if there is no activity on the system for 60 seconds after you have pressed a queue button, the display switches to the highest priority condition.

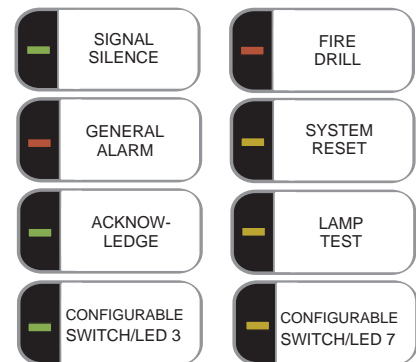


2.5.3 Cursor Buttons

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.

2.5.4 Enter Button

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



When the display is not showing the menu, press the Enter button to print a list of the active events to a printer connected to the panel, or to your laptop computer. To print a report to a printer or to a laptop (using Tera Term or HyperTerminal), the printer output must be enabled via the Configurator.

2.5.5 Cancel Button

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

2.5.6 Menu Button

Use this button to view the Command Menu.

2.5.7 Info Button

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

2.6 Common Controls

2.6.1 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 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.

2.6.2 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.

2.6.3 General Alarm Button

Activation of the General Alarm button immediately sends the panel into general alarm. It also re-activates the signals if they have been silenced during alarm. The general alarm condition remains active until the panel is reset. Silenceable signals can be silenced using the Signal Silence button.

2.6.4 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, Acknowledge and General Alarm LEDs
- Stops and resets all Timers
- Aux Disconnect is not affected
- Resets devices activated by input simulation and manual control
- Resets all Initiating Circuits
- Turns off all Indicating (NACs) Circuits
- Turns off Fire Drill
- Processes inputs as new events
- Reset cannot be activated until the Signal Silence Inhibit timer has expired



Attention: The System Reset can be global (all control panels) or by defined Node group (one or more Nodes) as programmed using Mircom's MGC-4000 Configurator Software.

2.6.5 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.

2.6.6 Lamp Test (Visual Indicator Test) Button

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

2.6.7 Configurable Switches and LEDs

These two switches and LEDs can be used for any function listed in the Mircom's MGC-4000 Configurator Software. Such functions include Buzzer Silence, Auxiliary Disconnect, Total Evacuation, Bypass, System Inputs, and switching the display language (toggle between two selected locations).

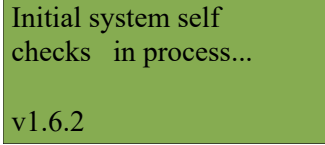
3.0 Troubleshooting

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. Press the INFO button to see the node number and card number of the unconfigured CPU.
I/O Adder Mismatch Trouble	This message appears if the number of physical hardwired adder modules does not match the number of modules listed in the configuration. This message also appears if the adder modules are not connected. Press the INFO button to see the node number, expansion number, and adder number of the mismatch.
Display Mismatch Trouble	<p>This message appears when the number of display modules (RAX-1048TZDS, FDX-008W(KI), IPS-2424DS, IPS-4848DS) connected to the panel does not match the number and the order of adders listed in the configuration. Make sure the display modules are connected. The message is in the following format:</p> <p><Adder Type> N01C0 Frm 1 Hdr 0</p> <p><Adder Type> is the type of adder, for instance HOA Sw Adder. N is the node, in this example Node 1. C is the card; in this example it is Card 0 (the main board). Frm is the frame position. Hdr is the header (0 when on the main board; 0, 1, or 2 on RAXN-4000LCD).</p>
Unconfigured Device Trouble	This message appears when an analog device is physically installed but does not appear in the configuration program. The device ID is shown in the format described in section 5.15 on page 60.
Printer Data Loss Trouble	This message appears 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 clears this trouble.
Slave (RAXN-4000LCDs) Configuration Version Mismatch Trouble	This message appears when the firmware versions on all the CPUs are not compatible. The device ID of the RAXN-4000LCD is shown in the format described in section 5.15 on page 60.
Slave (RAXN-4000LCDs) Configuration Address Mismatch Trouble	This message appears when the address(es) of the configured slaves does not match. The device ID is shown in the format described in section 5.15 on page 60.
Slave Configuration Type Mismatch	This message appears if the physical loop adder does not match the loop adder type specified in the configuration program.
Multiple Unconfigured Device Trouble	This message appears if there are two identical (duplicate) devices at the same address on the same loop.
Configuration Data Error (RAM)	This message appears if the system is overloaded and risks resetting itself. Reload the Configurator, or reboot the system by powering it down and then powering it up.
Configuration Data Error (FLASH)	This message appears if the system is overloaded and risks resetting itself. If this error should occur, please report it to Mircom's Technical Support Department.

4.0 Start Up

Before start up, disconnect the network cable.

When the system is plugged in and the batteries are connected, the front display shows the following message:




Initial system self
checks in process...
v1.6.2

If the system is unconfigured, then the third line shows **Config to FactoryDflt.**



The fourth line is the firmware version.

Let the system initialize for approximately one to two minutes.

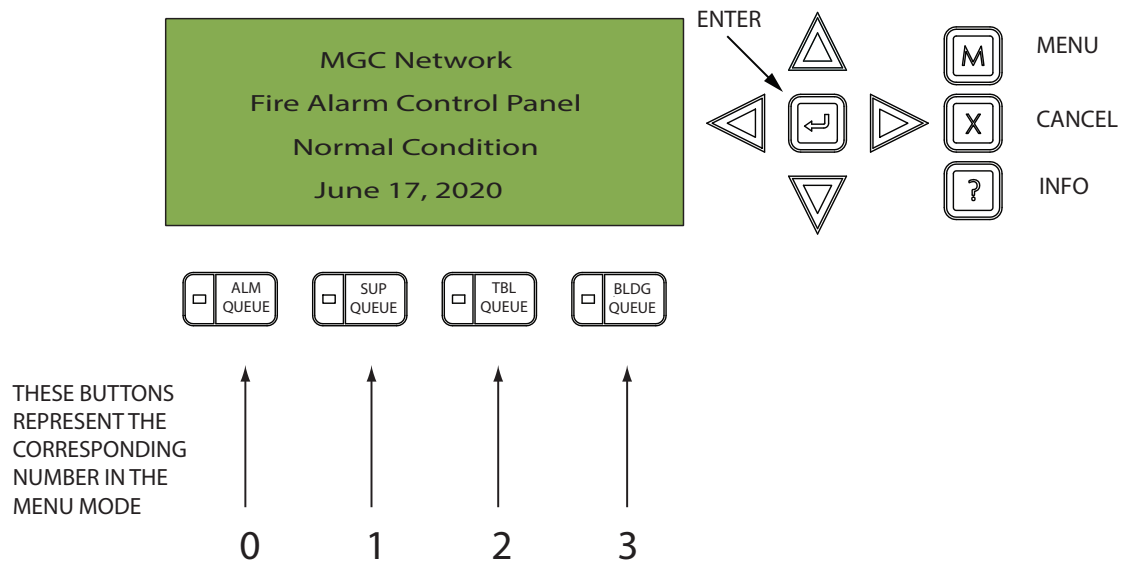
Download the configuration at each Node using a laptop computer and Mircom's MGC-4000 Configurator. Once all the Nodes have been downloaded, connect the network and select the Network Restart (see page 56) at the CACF (Central Alarm and Control Facilities) or main node.

If there is an alarm, supervisory, trouble, or monitor condition in the system, pressing the appropriate queue button and holding  displays information on the cause of the alarm, supervisory, trouble, or monitor device activation.



Note: To display the configuration software version, press , then hold .

4.1 Passcodes



Pressing the Alarm Queue button represents the number 0,
 Pressing the Supv. Queue button represents the number 1,
 Pressing the Trouble Queue button represents the number 2,
 Pressing the BLDG Queue button represents the number 3.

NOTE: THERE IS NO PASSCODE NUMBER AVAILABLE ABOVE 4, THEREFORE, PASSCODES ARE MADE UP OF NUMBERS 0, 1, 2, AND 3 AND CAN BE UP TO 20 DIGITS LONG.

4.2 Factory Defaults

FROM THE FACTORY PASSCODES ARE:

Level 1: 1111

Level 2: 2222

Level 3: 3333

A passcode is not required for Level 0 access. Passcodes provide three different levels of menu access. Default passcode 1111 allows Level 1 Access. Default passcode 2222 allows Level 2 access. Default passcode 3333 allows Level 3 access.

ACCESS LEVELS FOR THE FOLLOWING FEATURES, ARE DEFINED (SET AT THE FACTORY) AS:

Level 0 (no password)

- All reports (including event logs)
- Common aux bypass
- Set after hours
- Manual enable

Level 1

- Device bypass
- Zone bypass
- Node bypass
- Buzzer bypass
- Set time
- Walktest


Level 2

- Clear event logs
- Clear verification counters
- Configuration change
- Network restart
- Manual control
- Input simulation



Note: You can change these access levels in the MGC-4000 Configurator.

4.3 Menu Mode

Press the  button to activate the menu mode. The menu is organized as follows:

Menu	Submenu	Description	How to Use
1. Reports	Alarm Log	View or print all the alarm events.	See page 21
	Event Log	View or print all events: alarms, troubles, and button pushes.	See page 22
	Current Levels	View or print the current alarm level for analog devices.	See page 22
	Sensitivity Levels	View or print the sensitivity level for detectors.	See page 24
	Verification Count	View or print the number of times that devices have gone into pre-alarm status.	See page 25
	Maint Report	View or print detectors that are reading dirty or almost dirty.	See page 26
	Obscuration	View or print addressable detectors that have obscuration level capability.	See page 27
	CO Report	View or print the months remaining on CO cells.	See page 28
	Serial Code	View or print the devices' serial numbers.	See page 29
	Power Source Report	View or print the primary (A/C) and FWR secondary (battery) power source.	See page 30
	Output Active	View or print all active outputs.	See page 31

Menu	Submenu	Description	How to Use
2. Bypass	Device/Circuit	Bypass or unbypass a device or circuit.	See page 33
	Node	Bypass or unbypass a node.	See page 34
	Loop	Bypass or unbypass a loop.	See page 35
	Relay disc	Disconnect or reconnect all relays.	See page 36
	Input Zone	Disconnect or reconnect an input zone.	See page 36
	Output Zone	Disconnect or reconnect an output zone.	See page 37
	Node Outputs	Disconnect or reconnect all outputs on a node.	See page 39
	Positive Alarm Sequence	Bypass or unbypass the positive alarm sequence.	See page 39
	Buzzer	Bypass or unbypass the buzzer.	See page 40
	Audio	Bypass or unbypass the audio signals going to amplifiers.	See page 41
3. Manual Control	NA	Manually activate an output.	See page 42
4. Input Simulation	NA	Manually activate an input.	See page 43
5. Walk Test	Assisted (if configured)	Preform an assisted walk test for large systems.	See page 45
	Audible Test	Perform an audible walk test.	See page 47
	Silent Test	Perform a silent walk test.	See page 49
6. Day/night mode	NA	Select day or night mode, if the modes are configured for different sensitivity levels.	See page 53
7. Set Time	NA	Set the time.	See page 54
8. Clear Event Log	Alarm Log	Clear the alarm log.	See page 54
	Event Log	Clear the event log.	See page 54
	Walktest Report	Clear the walk test report.	See page 54
	All Logs	Clear all the logs.	See page 54
9. Clear Verification Count	NA	Clear all alarm verification counters.	See page 55
10. Network Restart	NA	Restart the system after system configuration download is completed.	See page 56
11. Configuration	Config Info	View the configuration information.	See page 57
	Select Version	Select the version of the job to make active.	See page 58
	Factory	Reset the system to factory defaults.	See page 59
12. Signal Silence Inhibit Timer	NA	Enable or disable the signal silence inhibit timer (the time during which you cannot silence the alarm or reset the system).	See page 59



Note: If you have used the Configurator to program the “Manual Control Enable” option in the Command Menu, the Command Menu list appears differently than what is shown above. Menu option 3 is “Man Ctrl Enable”, and “Manual Control” is option 4. For more information on the Enable Required option, see section 5.3 on page 41.

If you have used the Configurator to enable Node Control, there is an additional option “Unlock Comm Ctr” after “Input Simulation”. For more information on this option, see section 5.6 on page 44.


5.0 Front Panel Menu Operation

5.1 1. Reports Menu

Use the Reports Menu to print the Alarm Log, Event Log, Current Levels, Sensitivity Levels, Verification Counts, Maintenance Report, Obscuration, CO Report, Serial Code, Power Source, and Output Active. You can view on screen, or print directly to a printer connected to the panel, or to your laptop computer.






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

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

Step 1: Select the reports menu

```
- Command Menu -
1 Reports
2 Bypass
3 Manual Control
4 Input Simul.
5 Walktest
6 Day/night mode
7 Set Time
8 Clear Event Log
9 Clr Verif Count
10 Network Restart
11 Configuration
12 Sig Sil Inh Tmr
```

1. Use  and  to scroll the cursor to "Reports".
2. Press  to select the Reports Menu.



Step 2: Enter your passcode (if required)


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


Enter your passcode. See page 16 for instructions on entering passcodes.

Step 3: Select the option you want to view

- Report Menu -
1 Alarm Log
2 Event Log
3 Current Levels
4 Sensitivity lev
5 Verif Count
6 Maint. Report
7 Obscuration
8 CO Report
9 Serial Code
10 Pwr Src Report
11 Output Active

1. Use  and  to scroll the cursor through the menu.

2. Press  to select an option.

Press  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.

5.1.1 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 5000.

Step 1: Select the alarm log




- Report Menu -
1 Alarm Log
2 Event Log
3 Current Levels

1. Use  and  to scroll to "Alarm Log".





2. Press  to continue.

Step 2: Print or view the alarm log

- Report to -
1 Printer
2 Screen

- To print the alarm log report to the printer, press  when the cursor flashes beside "Printer".
- To view the alarm log report on the screen, press  then  to select "Screen". Follow the instructions below to navigate the alarm log.

Alarm 1 of 1496
2021-03-25 12:42:22
Active
System reset




- Use  and  to scroll through the log.
- Hold  down for more information on the logged event.
- Press  to exit to the Reports Menu.

5.1.2 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 5000.




Step 1: Select the event log

- Reports Menu -
1 Alarm Log
2 Event Log
3 Current Levels





1. Use  and  to scroll the cursor to "Event Log".
2. Press  to continue.

Step 2: Print or view the event log

- Report to -
1 Printer
2 Screen

- To print the event log report to the printer, press  when the cursor flashes beside "Printer".
- To view the event log report on the screen, press  then  to select "Screen". Follow the instructions below to navigate the event log.

Event 1 of 5000
2021-03-29 10:24:29
Active
Reports command




- Use  and  to scroll through the log.
- Hold  down for more information on the logged event.
- Press  to exit to the Reports Menu.

5.1.3 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
3 Current Levels

1. Use  and  to scroll the cursor to "Current Levels".
2. Press  to select the Current Levels submenu.






Step 2: Print or view the current levels

- Report to -
1 Printer
2 Screen

- To print the Current Levels report to the printer, press  when the cursor flashes beside "Printer".
- To view the Current Levels report on the screen, press  then  to select "Screen". Follow the instructions below to navigate the Current Levels.

Step 3: Select node, card, and loop

Select Node, Card
& Loop
Node: ALL





- Use  and  to scroll through the numbers.
 - Select the Node number, then press .
 - Select the Card number, then press .
 - Select the Loop number, then press .
- You can also choose all nodes, all cards, or all loops by selecting **ALL**.

An example is shown on the left.

The second and third lines pinpoint the exact device.

The % **alarm** shows how close the device is to going into alarm: 0% is the least likely, and 80% is the most likely.

Node 1 Card 1 Lp 1
01-01-011N-S001.001
(CLIP)Heat Det
% alarm: 0%




- Use  and  to scroll through the log.
- Hold  down for more information on the logged event.
- Press  to exit to the Reports Menu.

5.1.4 Sensitivity Level

The sensitivity level report is used for annual inspection to validate against a measured sensitivity. The report displays all detectors on the specified node, card and loop, that have a sensitivity configured.




Step 1: Select Sensitivity Level

- Reports Menu -
1 Event Log
2 Current Levels
4 Sensitivity lev

1. Use  and  to scroll the cursor to "Sensitivity lev".
2. Press  to select the Sensitivity Level submenu.






Step 2: Print or view the sensitivity level

- Report to -
1 Printer
2 Screen

- To print the Sensitivity Level report to the printer, press  when the cursor flashes beside "Printer".
- To view the Sensitivity Level report on the screen, press  then  to select "Screen". Follow the instructions below to navigate the Sensitivity Level.

Step 3: Select node, card, and loop

Select Node, Card
& Loop
Node: ALL





1. Use  and  to scroll through the numbers.
 2. Select the Node number, then press .
 3. Select the Card number, then press .
 4. Select the Loop number, then press .
- You can also choose all nodes, all cards, or all loops by selecting **ALL**.

An example is shown on the left.

The second and third lines pinpoint the exact device.

The fourth line shows the reported sensitivity level of the device.

Node 1 Card 1 Lp 1
01-01-011N-S001.001
(CLIP)Heat Det
Lvl: 3.66%




- Use  and  to scroll through the log.
- Hold  down for more information on the logged event.
- Press  to exit to the Reports Menu.

5.1.5 Verification Count

This option reports on any pre-alarmed devices that are set to verification mode. This report lists each time a device goes into pre-alarm status. If no devices are set to verification mode, then no report appears.




Step 1: Select Verification Count

- Reports Menu -
2 Current Levels
4 Sensitivity lev
5 Verif Count

1. Use  and  to scroll the cursor to "Verif Count".
2. Press  to select the Verification Count submenu.






Step 2: Print or view the verification count

- Report to -
1 Printer
2 Screen

- To print the Verification Count report to the printer, press  when the cursor flashes beside "Printer".
- To view the Verification Count report on the screen, press  then  to select "Screen". Follow the instructions below to navigate the Verification Count.

Step 3: Select node, card, or loop

Select Node, Card
& Loop
Node: ALL

1. Use  and  to scroll through the numbers.
 2. Select the node number, then press .
 3. Select the card or expansion number, then press .
 4. Select the loop or adder number, then press .
- You can also choose all nodes, cards, expansions, loops or adders by selecting **ALL**.





If the display shows...

End of report

...no verified devices were found. The display returns to the Reports menu.

If the display shows...

Node 1 Card 1 Lp 1
01-01-011N-S001.001
(CLIP)Heat Det
Verif. Count: 0




- Press and hold  for more information on the Verified Count.
- Use  and  to scroll the cursor through the log.
- Press  to exit to the Reports Menu.

5.1.6 Maintenance Report

The maintenance report displays all detectors on the specified loop or loops that are currently reading dirty or almost dirty.




Step 1: Select Maintenance Report

- Reports Menu -
4 Sensitivity lev
5 Verif Count
6 Maint. Report

1. Use  and  to scroll the cursor to "Maint Report".
2. Press  to continue.






Step 2: Print or view the maintenance report

- Report to -
1 Printer
2 Screen

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

Step 3: Select a node, card, and loop

Select Node, Card
& Loop
Node: ALL

1. Use  and  to scroll through the numbers.
 2. Select the node number, then press .
 3. Select the card number, then press .
 4. Select the loop number, then press .
- You can also choose all nodes, all cards, or all loops by selecting **ALL**.

If the display shows...





No dirty devices found.

...the display returns to the Reports Menu.

OR

If the display shows...

Node 1 Card 1 Lp 1
01-01-011N-S001.001
(CLIP)Heat Det
Percent dirty: 1%




- Press and hold  to view the details.
- Use  and  to scroll the cursor through the records.
- Press  to exit to the Reports Menu.

5.1.7 Obscuration

This option reports on the obscuration levels of the smoke detectors.




Step 1: Select Obscuration

- Reports Menu -
5 Verif Count
6 Maint. Report
7 Obscuration

1. Use  and  to scroll the cursor to "Obscuration".
2. Press  to select the Obscuration submenu.






Step 2: Print or view obscuration

- Report to -
1 Printer
2 Screen

- To print the Obscuration report to the printer, press  when the cursor flashes beside "Printer". Go to Step 3.
- To view the Obscuration log on the screen, press  then  to select "Screen". Go to Step 3.

Step 3: Select a node, card, and loop

Select Node, Card
& Loop
Node: ALL

1. Use  and  to scroll through the numbers.
2. Select the node number, then press .
3. Select the card number, then press .
4. Select the loop number, then press .
- You can also choose all nodes, all cards, or all loops by selecting **ALL**.

Node 1 Card 1 Lp 1
01-01-011N-S001.001
(CLIP)1251 Ion Det
Current Osbc: 0.00%

An example of the information displayed on screen is shown on the left.




The second and third line pinpoint the exact device. Below that is the present obscuration percentage of the device.

5.1.8 CO Report

This report shows which CO devices need to be replaced.




Step 1: Select CO

- Reports Menu -
6 Maint. Report
7 Obscuration
8 CO Report

1. Use  and  to scroll the cursor to "CO Report".
2. Press  to select the CO Report submenu.






Step 2: Print or view CO

- Report to -
1 Printer
2 Screen

- To print the CO report to the printer, press  when the cursor flashes beside "Printer". Go to Step 3.
- To view the CO log on the screen, press  then  to select "Screen". Go to Step 3.

Step 3: Select a node, card, and loop





Select Node, Card
& Loop
Node: ALL

1. Use  and  to scroll through the numbers.
2. Select the node number, then press .
3. Select the card number, then press .
4. Select the loop number, then press .
- You can also choose all nodes, all cards, or all loops by selecting **ALL**.

An example of the information displayed on screen is shown on the left.

Node 1 Card 1 Lp 1
01-01-011N-S001.001
(CLIP)1251 Ion Det
CO months left: 120

The first and second line pinpoint the exact CO device. All devices with CO cells appear in the report, and the number of months remaining on the CO cell is shown. If there are no CO devices, then the display shows “End of report”.




- Press and hold  to view the details.
- Use  and  to scroll the cursor through the records.
- Press  to exit to the Reports Menu.

5.1.9 Serial Code

The serial number report displays all detectors’ serial numbers and the device type on the specified node, loop or loops that are responding.




Step 1: Select Serial Code

- Reports Menu -
7 Obscuration
8 CO Report
9 Serial Code

1. Use  and  to scroll the cursor to “Serial Code”.
2. Press  to select the Serial Code submenu.






Step 2: Print or View Serial Code

- Report to -
1 Printer
2 Screen

- To print the Serial Code report to the printer, press  when the cursor flashes beside "Printer". Go to Step 3.
- To view the Serial Code log on the screen, press  then  to select "Screen". Go to Step 3.

Step 3: Select a node, card, and loop





Select Node, Card
& Loop
Node: ALL

- Use  and  to scroll through the numbers.
 - Select the node number, then press .
 - Select the card number, then press .
 - Select the loop number, then press .
- You can also choose all nodes, all cards, or all loops by selecting **ALL**.

An example of the information displayed on screen is shown on the left.

The second and third line pinpoint the exact device.

Node 33 Card 1 Lp1
Addr 1 (AP)Photo
S/N 0654386615
33-01-01IN-001.001




- Press and hold  to view the details.
- Use  and  to scroll the cursor through the records.
- Press  to exit to the Reports Menu.

5.1.10 Power Source

The power source report displays the primary (A/C) and FWR secondary (battery) power source on the specified node.




Step 1: Select Power Source

- Reports Menu -
8 CO Report
9 Serial Code
10 Power Source

- Use  and  to scroll the cursor to "Power Source".
- Press  to continue.

Step 2: Select node



Select Node, Card
& Loop
Node: ALL

- Select a node number by using  and  to scroll through the numbers, or
- Select all nodes by pressing .

Step 3: Power source report

Node 03
Battery: 22.50 V
A/C FWR: 25.80 V

The power source is displayed as per this example.




Use  and  to scroll the scroll through the other nodes if you selected all nodes.

5.1.11 Output Active

The output active report is used for validation during installation. This report shows the circuit ID and the tag of all active outputs.




Step 1: Select Output Active








- Reports Menu -
9 Serial Code
10 Power Source
11 Output Active

1. Use  and  to scroll the cursor to "Output Active".
2. Press  to continue.

Step 2: Print or view the output active report








- Report to -
1 Printer
2 Screen

- To print the Output Active Report to the printer, press  when the cursor flashes beside "Printer".
- To print the Output Active Report to the screen, press  then  when the cursor flashes beside "Screen".

Step 3: Select node	
<div style="background-color: #92d050; padding: 5px;"> - Select Node - Node: <u>ALL</u> </div>	<ul style="list-style-type: none"> Select a node number by using  and  to scroll through the numbers, or Select all nodes by pressing .
<p>An example of the information displayed on screen is shown on the left.</p> <div style="display: flex; justify-content: space-between;"> <div style="background-color: #92d050; padding: 5px; width: 30%;"> 01-00-00Opt-000.000 01-00-00Opt-000.001 01-00-00Opt-000.002 01-00-00Opt-000.003 </div> <div> <ul style="list-style-type: none"> Press and hold  to view additional details about the active outputs. Use  and  to scroll the cursor through the records. Press  to exit to the Reports Menu. </div> </div>	

5.2 2. Bypass Menu

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

Step 1: Select the Bypass Menu	
<div style="background-color: #92d050; padding: 5px;"> - Command Menu - 1 Reports 2 Bypass 3 Manual Control </div>	<ol style="list-style-type: none"> Use  and  to scroll the cursor to "Bypass". Press  to select the Bypass Menu.
Step 2: Enter your passcode (if required)	
<div style="background-color: #92d050; padding: 5px;"> Enter passcode for level 1 or higher: </div>	<p>Enter your passcode. See page 16 for instructions on entering passcodes.</p>
Step 3: Select the option you want to view	
<div style="background-color: #92d050; padding: 5px;"> - Bypass Menu - 1 Device/Circuit 2 Node 3 Loop 4 Relay disc 5 Input Zone 6 Output Zone 7 Node Outputs 8 Pos. Alm. Seq 9 Buzzer 10 Audio </div>	<ol style="list-style-type: none"> Use  and  to scroll the cursor through the Bypass Menu. Press  to select an option. <p>Press  to exit and return to the Bypass Menu. Repeat to exit to the Command Menu.</p>

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


5.2.1 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 the device or circuit

- Bypass Menu -
1 Device/Circuit
2 Node
3 Loop

Press  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 16 for instructions on entering passcodes.




Step 3: Select a node, card, and loop

- Select Device -
Node: 1

1. Use  and  to scroll through the numbers.
 2. Select the node number, then press .
 3. Select the card number, then press .
 4. Select the loop number, then press .
- If you are bypassing an addressable device, select a node, card, loop and device.
 - If you are bypassing a circuit on a circuit adder, select a node, circuit expansion, adder and device.
 - If you are bypassing a NAC, select a node and a NAC.

Step 4: Select the device or circuit to bypass or unbypass




- Select Device -
Device: UP or DOWN
02-01-01 IN-018,001

1. Enter the device number, pressing  and  as needed to scroll through the devices.
2. Press  to select the device or circuit.

Step 5: Bypass the device or circuit

N2-C1-L1-D18-CKI1
O2-01IN-018.001
Bypass? Y

The system asks whether or not you want to bypass or unbypass the device.

1. Use  and  to select "yes" or "no".
2. Press  to continue.

At this point the display varies, depending on your choice:

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

5.2.2 Unbypassing an active device or circuit

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

Warning: This output device is active.
Do you really want to unbypass it? Y




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

5.2.3 Node

This option is useful if you want to isolate a node.




Step 1: Select Input Zone Bypass

- Bypass Menu -
1 Device/Circuit
2 Node
3 Loop

1. Use  and  to scroll to "Node".
2. Press  to continue.

Step 2: Select a node




-Select Node-
Node: 1

1. Use  and  to select the node.
2. Press  to continue.

Step 3: Bypass the node

Bypass?Y

The system asks whether or not you want to bypass or unbypass the node.

1. Use  and  to select "yes" or "no".
2. Press  to continue.

At this point the display varies, depending on your choice:




- **If you selected "yes"**, the display shows either the message "Node bypassed" or "Node unbypassed", then it returns to the Command Menu.
- **If you selected "no"**, the display shows the message "Operation cancelled", then it returns to the Command Menu.

5.2.4 Loop

This option is useful if you want to bypass or unbypass an entire loop of addressable devices, all NACs, or a whole expansion from a panel.






Step 1: Select Loop Bypass

- Bypass Menu -
1 Device/Circuit
2 Node
3 Loop

1. Use  and  to scroll to "Loop".
2. Press  to continue.

Step 2: Select node, card, or loop




Select Node, Card
& Loop
Node:ALL

1. Use  and  to scroll through the numbers.
 2. Select the node number, then press .
 3. Select the card or expansion number, then press .
 4. Select the loop or adder number, then press .
- You can also choose all nodes, cards, expansions, loops or adders by selecting **ALL**.

Step 3: Bypass the loop

Bypass?Y

The system asks whether or not you want to bypass or unbypass the loop.

1. Use  and  to select "yes" or "no".
2. Press  to continue.

At this point the display varies, depending on your choice:




- **If you selected “yes”**, the display shows either the message “Loop bypassed” or “Loop unbypassed”, then it returns to the Command Menu.
- **If you selected “no”**, the display shows the message “Operation cancelled”, then it returns to the Command Menu.

5.2.5 Relay Disc

This option is useful if you want to disconnect the common auxiliary relays.

Step 1: Select Input Zone Bypass




- Bypass Menu -
2 Node
3 Loop
4 Relay Disc

1. Use  and  to scroll to “Relay Disc”.
2. Press  to continue.

Step 2: Disconnect the relays

Common aux relays
currently connected.
Disconnect?Y

The system asks whether or not you want to connect or disconnect the auxiliary relays.

1. Use  and  to select “yes” or “no”.
2. Press  to continue.

At this point the display varies, depending on your choice:

- **If you selected “yes”**, the display shows either the message “Common aux relays now disconnected” or “Relays reconnected”, then it returns to the Command Menu.
- **If you selected “no”**, the display shows the message “Operation cancelled”, then it returns to the Command Menu.

5.2.6 Input Zone






Warning: Bypassing an input zone disables all input devices in that zone.

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

To unbypass the input zone, follow the same procedures for input zone bypass.

Step 1: Select Input Zone Bypass




- Bypass Menu -
3 Loop
4 Relay Disc
5 Input Zone

1. Use  and  to scroll to “Input Zone”.
2. Press  to continue.

Step 2: Select a node

- Select Node -

Node: 1

1. Use  and  to select the node number.
2. Press  to continue.




Step 3: Select a zone

- Select Zone -

Tag 1

Tag 2

01-**-**IZ-0001




1. Use  and  to select the zone.
2. Press  to continue.

Step 4: Bypass the zone

01-**-**IZ-0001

Bypass?Y

The system asks whether or not you want to bypass or unbypass the input zone.

1. Use  and  to select "yes" or "no".
2. Press  to continue.

At this point the display varies, depending on your choice:

- **If you selected "yes"**, the display shows either the message "Zone bypassed" or "Zone unbypassed", then it returns to the Command Menu.
- **If you selected "no"**, the display shows the message "Operation cancelled", then it returns to the Command Menu.

5.2.7 Unbypassing an active zone

When you unbypass an input zone that went into alarm while it was bypassed, the following message appears:

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

If you select "yes" to unbypass this zone, the system immediately goes into alarm. To avoid this problem, press the System Reset button before unbypassing the zone.













5.2.8 Output Zone



Warning: Bypassing an output zone disables all devices in that zone.

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

To unbypass the output zone, follow the same procedures for output zone bypass.

Step 1: Select Input Zone Bypass	
<div style="background-color: #92d050; padding: 5px;"> - Bypass Menu - 4 Relay Disc 5 Input Zone 6 Output Zone </div>	<ol style="list-style-type: none"> Use  and  to scroll to "Output Zone". Press  to continue.
Step 2: Select a node	
<div style="background-color: #92d050; padding: 5px;"> - Select Node - Node: 1 </div>	<ol style="list-style-type: none"> Use  and  to select the node number. Press  to continue. <p>If there is no output zone on this node, the message "No input zone on this CPU" appears.</p>
Step 3: Select a zone	
<div style="background-color: #92d050; padding: 5px;"> - Select Zone - Tag 1 Tag 2 01-**-**OZ-0001 </div>	<ol style="list-style-type: none"> Use  and  to select the zone. Press  to continue.
Step 4: Bypass the zone	
<div style="background-color: #92d050; padding: 5px;"> 01-**-**OZ-0001 Bypass?Y </div>	<p>The system asks whether or not you want to bypass or unbypass the output zone.</p> <ol style="list-style-type: none"> Use  and  to select "yes" or "no". Press  to continue.

At this point the display varies, depending on your choice:




- **If you selected "yes"**, the display shows either the message "Zone bypassed" or "Zone unbypassed", then it returns to the Command Menu. There is a trouble for each output zone that is bypassed.
- **If you selected "no"**, the display shows the message "Operation cancelled", then it returns to the Command Menu.

5.2.9 Node Outputs

This option is useful if you want to bypass all the outputs of a node. To unbypass the outputs of a node, follow the same procedures for Node Outputs bypass.




Step 1: Select Node Outputs Bypass

- Bypass Menu -
5 Input Zone
6 Output Zone
7 Node Outputs

1. Use  and  to scroll to "Node Outputs".
2. Press  to continue.

Step 2: Select a node




- Select Node -
Node: 1

1. Use  and  to select the node number.
2. Press  to continue.

Step 3: Select "yes" or "no"

Bypass?Y

The system asks whether or not you want to bypass or unbypass the node outputs.

1. Use  and  to select "yes" or "no".
2. Press  to continue.

At this point the display varies, depending on your choice:




- **If you selected "yes"**, the display shows either the message "Zone bypassed" or "Zone unbypassed", then it returns to the Command Menu. There is a trouble for each output that is bypassed.
- **If you selected "no"**, the display shows the message "Operation cancelled", then it returns to the Command Menu.

5.2.10 Positive Alarm Sequence

This option is useful if you want to bypass the positive alarm sequence (PAS). This option is available only if it is enabled in the configuration.

Step 1: Select Input Zone Bypass




- Bypass Menu -
6 Output Zone
7 Node Outputs
8 Pos. Alm. Seq

1. Use  and  to scroll to "Pos. Alm. Seq".
2. Press  to continue.

Step 2: Bypass the positive alarm sequence

Pos. Alm. Sequence
Unbypassed.
Bypass?Y

The system asks whether or not you want to bypass or unbypass the positive alarm sequence.

1. Use  and  to select "yes" or "no".
2. Press  to continue.

At this point the display varies, depending on your choice:




- **If you selected "yes"**, the display shows either the message "Pos. Alm. Sequence Bypassed" or "Pos. Alm. Sequence Unbypassed", then it returns to the Command Menu.
- **If you selected "no"**, the display shows the message "Operation cancelled", then it returns to the Command Menu.

5.2.11 Buzzer

This option is useful if you want to bypass or un-bypass all buzzers in the system.

Step 1: Select Buzzer Bypass




- Bypass Menu -
7 Node Outputs
8 Pos. Alm. Seq
9 Buzzer

1. Use  and  to scroll to "Buzzer".
2. Press  to continue.

Step 2: Bypass the buzzer




Buzzer unbypassed
Bypass?Y

The system asks whether or not you want to bypass or unbypass the buzzer.

1. Use  and  to select "yes" or "no".
2. Press  to continue.

Step 3: Select timeout

- Buzzer Bypass -
Timeout (hr) 6

1. Use  and  to select the duration of the bypass. The duration can be between 1 and 8 hours and the default is 6 hours.
2. Press  to continue.

At this point the display varies, depending on your choice:




- **If you selected "yes"**, the display shows either the message "Buzzer bypassed" or "Buzzer unbypassed", then it returns to the Command Menu.
- **If you selected "no"**, the display shows the message "Operation cancelled", then it returns to the Command Menu.

5.2.12 Audio

This option is useful if you want to bypass or un-bypass all audio signals going to amplifiers in the system.

Step 1: Select Audio Bypass




- Bypass Menu -
8 Pos. Alm. Seq
9 Buzzer
10 Audio

1. Use  and  to scroll to "Audio".
2. Press  to continue.

Step 2: Bypass the audio




Audio unbypassed
Bypass?Y

The system asks whether or not you want to bypass or unbypass the audio.

1. Use  and  to select "yes" or "no".
2. Press  to continue.

Step 3: Select timeout

- Audio Bypass -
Timeout (hr) 6

1. Use  and  to select the duration of the bypass. The duration can be between 1 and 12 hours and the default is 6 hours.
2. Press  to continue.

At this point the display varies, depending on your choice:

- **If you selected "yes"**, the display shows either the message "Audio bypassed" or "Audio unbypassed", then it returns to the Command Menu.
- **If you selected "no"**, the display shows the message "Operation cancelled", then it returns to the Command Menu.

5.3 Alternate Menu Option #3: Manual Control Enable



Note: 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 **Man Ctrl Enable** option in the Command Menu or turning the key switch allows you to activate and deactivate this feature.

5.3.1 Selecting Manual Control Enable from the Menu

Step 1: Select Manual Enable

- Command Menu-
 1 Reports
 2 Bypass
 3 Man Ctrl Enable

1. Use  and  to scroll the cursor to "Man Ctrl Enable".
2. Press  to continue.

Step 2: Enter your passcode




Enter passcode for level 1 or higher:


Enter your passcode. See page 16 for instructions on entering passcodes.

Step 3: Enable manual control


Manual control currently disabled. Enable?Y

The system asks whether or not you want to enable manual control.

1. Use  and  to select "yes" or "no".
2. Press  to continue.

The display shows the message "Manual control enabled" while in normal mode, and the panel is in a trouble condition. To check which annunciator manual control was enabled on, press the  button. To disable manual control, follow the same steps outlined above.

5.3.2 Selecting manual control enable using a key switch




- You can set up FleX-Net™ FX-4000 to require the activation of a key switch instead of a passcode to enable manual control. Once the key switch is operated, the display shows the message "Manual control enabled" while in normal mode, and the panel is in a trouble condition. To check which annunciator manual control was enabled on, press the  button. To disable manual control, reset the key switch.

5.4 3. Manual Control

Use this option if you want to manually activate or deactivate outputs. To deactivate the output use the same procedure as activating the output, except select "Normal" in Step 5, or press the System Reset button.

Step 1: Select Manual Control

- Command Menu-
 1 Reports
 2 Bypass
 3 Manual Control

1. Use  and  to scroll the cursor to "Manual Control".
2. Press  to continue.




Step 2: Enter your passcode (if required)

Enter passcode for level 1 or higher:

Enter your passcode. See page 16 for instructions on entering passcodes.




Step 3: Select output

- Select Device -
Card: 1
Loop: 1
Device: S001

1. Use  and  to scroll through the choices, then press  to make a selection.
 - If you are activating an addressable output device, select a node, card, loop and device.
 - If you are activating a circuit on an output circuit adder, select a node, circuit expansion, adder and device.
 - If you are activating a NAC, select a node and NAC.




Step 4: Select device

- Select Device -
Device: UP or DOWN
01-01-01Opt-S101.003

1. Use  and  to scroll through the devices, then press  to make a selection.

Step 5: Select state

- Select State -
1 Normal
2 Temporal 4
3 Temporal 3
4 March
5 Continuous

1. Use  and  to select the state that you want the output to simulate, for example "Normal", "Active", or "Alert Rate".
2. Press  to activate the output.




5.5

4. Input Simulation

This option allows an input to be manually activated. To deactivate the input, press the "System Reset" button.

Step 1: Select Input Simul

- Command Menu-
2 Bypass
3 Manual Control
4 Input Simul.

1. Use  and  to scroll the cursor to "Input Simul."
2. Press  to continue.




Step 2: Enter your passcode (if required)

Enter passcode for level 1 or higher:

Enter your passcode. See page 16 for instructions on entering passcodes.




Step 3: Select node, card, and loop

- Select Device -
Card: 1
Loop: 1
Device: S001

1. Use  and  to scroll through the choices, and then press  to make a selection.
2. If you want to activate an addressable input device, select node, card, loop and device.
3. If you want to activate a circuit on an input circuit adder, select node, circuit expansion, adder and device.

Step 4: Select device

- Select Device -
device: UP or DOWN
01-01-01IN-S001.001
7.10.4_NL.SUPV_1

- Use  and  to scroll through the devices, press  to select a device.

Step 5: Activate device

2021-03-28 12:19:38
7.10.4_NL.SUPV_1
SPV 001 or 001

The display shows the device that is activated and the time it was activated.

5.6 Alternate Menu Option #5: Unlock Com Control



Note: You will see this option in the Command Menu only if your system has been programmed for manual control.

Select **Unlock Com Ctrl** to enable all common controls switch on the current display.

5.7 5. Walk Test

Use the Walk Test when you want to test the devices in a system. Performing a walk test places the system in trouble (non-latching).

The options available to you on the Walk Test Menu depends upon how the panel was originally configured. The FleX-Net™ FX-4000 system supports the ability to define walk test areas in the configuration. If there are no areas defined on a multi node system, an error




appears when attempting to perform a walk test. If you are using a single node system, then the panel supports a default walk test of all devices, if no areas are defined in the configuration. The audible walk test is only supported by the default walk test on a single node system.



Note: Walk test records that are viewed on the screen are stored in the event log.

Step 1: Select the Walk Test Menu

- Command Menu -
1 Reports
2 Bypass
3 Walktest

1. Use  and  to scroll the cursor to "Walktest".
2. Press  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 16 for instructions on entering passcodes.

The subsections following provide instructions on using each Walk Test option, Assisted and One Man Audible, One Man Silent Walk Test.

5.7.1 Assisted Walk Test





Assisted Walk Test must be configured using the Configurator. The options shown at Step 4: Select the Walk Test Configuration, are the walk test areas defined using the Configurator. When the Assisted Walk Test is configured, the One Man Walk Test is replaced by the Assisted Walk Test. The Assisted Walk Test shall be in silent mode only.



Note: The Assisted Walk Test is the only option available on a network with 2 or more nodes. If no walk test areas were defined in the Configurator, then an error occurs when trying to start an Assisted Walk Test.



Step 1: Select the assisted walk test option


- Walktest -
1 Assisted
2 Walktest report


1. Use  and  to scroll the cursor through the menu.
 2. Press  to select the "Assisted" option.
- Press  to exit and return to the Command Menu.

Step 2: Select the walk test configuration

```
- Walktest -
1st Floor
2nd Floor
```

1. Use  and  to scroll the cursor through the menu.

2. Press  to select a Walk Test Configuration.

Press  to exit and return to the Command Menu.

Step 3: Start the walk test


```
- Walktest -
1 Start
2 Resume
```

Start or Resume Test for device inspection.

1. Select Start to begin a Walk Test.

2. Select Resume to continue the Walk Test.

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

Press  to end the walk test at any time.

Step 4: Main walk test screen

```
1st Floor
A:xxxx D:xxxx R:xxxx
T:xxxx D:xxxx R:xxxx
Press CANCEL to end
```

During the Assisted Walk Test the display is as shown.


A = number of Walk Test alarm events

T = number of Walk Test trouble events

D = number of duplicate alarm and trouble events



R = number of remaining events from the Walk Test list

1. Press  or  to display the first Device Screen.

Press  to exit and return to the Command Menu.

Step 5: Walk test device screen


```
02-01-03IN-S104.001
A: nnn T:nnn
Tag 1
Tag 2
```


1. Use  and  to scroll the cursor through the devices.

Device display is as shown. The device ID is shown in the format described in section 5.15 on page 60.

A = total number of alarm events for the device.

T = total number of trouble events for the device.

Press  to return to the Main Walk Test screen.

Press  to exit and return to the Command Menu.

5.7.2 Audible Test (Single Node System)




During this test, alarm activation of any input device activates all signals for one half second. Trouble activation on any input device activates all signals continuously for one second. If audio amplifier is configured for alarm and trouble events, it sounds words “Alarm” and “Trouble” respectively.



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




Step 1: Select one man test

- Walktest -
1 One Man
2 Walk Test Report

1. Use  and  to scroll the cursor to “One Man”.
2. Press  when the cursor flashes beside “One Man” to select the One Man Walk Test.




Step 2: Select audible test

- Walktest -
1 Audible Test
2 Silent Test

1. Use  and  to scroll the cursor and select “Audible Test”.
2. Press  when the cursor flashes beside “Audible Test” to select the Audible Test.

Step 3: Select duration of walk test

- Walktest -
Timeout 6 hours

1. The default duration of Walk Test is 6 hours. To choose another time duration, use the  and  to scroll the cursor to the desired duration time. Valid range is from 1 hour to 12 hours.
2. Press  to select the Walk Test duration.


Step 4: Start the walk test

- Walktest -
1 Start
2 Resume

Start or Resume Test for device inspection.

1. Select Start to begin a Walk Test.
2. Select Resume to continue the Walk Test.

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

Press  to end the walk test at any time.

Step 5: Main walk test screen

```
OneMan
A:xxxx D:xxxx R:xxxx
T:xxxx D:xxxx R:xxxx
Press CANCEL to end
```

During the Walk Test the display is as shown.


A = number of Walk Test alarm events

T = number of Walk Test trouble events

D = number of duplicate alarm and trouble events



R = number of remaining alarm and trouble events from the Walk Test list

1. Press  or  to display the first Device Screen.

Press  to exit and return to the Command Menu.

Step 6: Walk test device screen


```
02-01-03IN-S104.001
A: nnn T:nnn
Tag 1
Tag 2
```


1. Use  and  to scroll the cursor through the devices.

Device display is as shown. The device ID is shown in the format described in section 5.15 on page 60.

A = total number of alarm events for the device.

T = total number of trouble events for the device.

Press  to return to the Main Walk Test screen.




Press  to exit and return to the Command Menu.

5.7.3 Silent Test (Single Node System)

During this test, alarm activation of any input device activates all signals for one half second. Trouble activation on any input device activates all signals continuously for one second. If audio amplifier is configured for alarm and trouble events, it sounds words “Alarm” and “Trouble” respectively.




Step 1: Select one man test

- Walktest -
1 One Man
2 Walk Test Report

1. Use  and  to scroll the cursor to “One Man”.
2. Press  when the cursor flashes beside “One Man” to select the One Man Walk Test.




Step 2: Select Silent Test

- Walktest -
1 Audible Test
2 Silent Test

1. Use  and  to scroll the cursor and select “Silent Test”.
2. Press  when the cursor flashes beside “Silent Test” to select the Silent Test.

Step 3: Select duration of the walk test

- Walktest -
Timeout 6 hours

1. The default duration of Walk Test is 6 hours. To choose another time duration, use the  and  to scroll the cursor to the desired duration time. Valid range is from 1 hour to 12 hours.
2. Press  to select the Walk Test duration.


Step 4: Start the walk test

- Walktest -
1 Start
2 Resume

Start or Resume Test for device inspection.

1. Select Start to begin a Walk Test.
2. Select Resume to continue the Walk Test.

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

Press  to end the walk test at any time.

Step 5: Main walk test screen

```
OneMan
A:xxxx D:xxxx R:xxxx
T:xxxx D:xxxx R:xxxx
Press CANCEL to end
```

During the Walk Test the display is as shown.


A = number of Walk Test alarm events

T = number of Walk Test trouble events

D = number of duplicate alarm and trouble events



R = number of remaining alarm and trouble events from the Walk Test list

1. Press  or  to display the first Device Screen.

Press  to exit and return to the Command Menu.

Step 6: Walk test device screen


```
02-01-03IN-S104.001
A: nnn T:nnn
Tag 1
Tag 2
```


1. Use  and  to scroll the cursor through the devices.

Device display is as shown. The device ID is shown in the format described in section 5.15 on page 60.

A = total number of alarm events for the device.

T = total number of trouble events for the device.

Press  to return to the Main Walk Test screen.

Press  to exit and return to the Command Menu.




5.7.4 Walk Test Report

The Walk Test Report provides on screen and printer logs for both the One Man Walk Test and the Assisted Walk Test.

5.7.5 Walk Test Screen Report



Step 1: Select the Walk Test Report

```
- Walktest -
1 One Man
2 Walktest report
```


1. Use  and  to scroll the cursor through the menu.
2. Press  to select "Walktest report" option.

Step 4: Select the Screen option

```
- Walktest -
1 Printer
2 Screen
```

1. Use  and  to scroll the cursor through the menu.


2. Press  to select an "Screen" option.

Press  to exit and return to the Command Menu.

Step 2: Walk test report on screen

One Man(or 1st Floor)
A:nnnn D:nnnn R:nnnn
T: nnnn D:nnnn R:nnnn
Press CANCEL to end

- Use  and  to scroll the cursor through the Walk Test log.

Press  to exit and return to the Command Menu.

Step 3: Walk test device report on screen

02-01-03IN-S104.001
A: nnn T:nnn
Tag 1
Tag 2

Device display is as shown. The device ID is shown in the format described in section 5.15 on page 60.



A = total number of alarm events for the device.


T = total number of trouble events for the device.


5.7.6 Walk Test Printer Report

Step 1: Select the Walk Test Report

- Walktest -
1 One Man
2 Walktest report



- Use  and  to scroll the cursor through the menu.

- Press  to select the "Walktest report" option.


Press  to exit and return to the Command Menu.

Step 2: Select the Printer option

- Walktest -
1 Printer
2 Screen

- Use  and  to scroll the cursor through the menu to Printer.

- Press  to select Printer.

Press  to exit and return to the Command Menu.

The following is an example of a printed Walk Test Report:

```

----- Walktest Report - 2021-06-02 09:48:39 -----
----- Job Name: TwoNodeHome -----
----- Job version: 32.0 -----
----- Firmware version: 1.6.3 (Node 2, CPU 0) -----
Area   Node 2 Wkt
A:   1 D:   1 R:   7
T:   0 D:   0 R:   8
=====
02-00-00IN-001.001
A:   2 T:   0
N2-Exp0-Adder1-Ckt1

8InputAdder
Last Alarm:
2021-06-02 08:35:03
Last Trouble:

=====
02-00-00IN-001.002
A:   0 T:   0
N2-Exp0-Adder1-Ckt2

8InputAdder
Last Alarm:

Last Trouble:

=====
02-00-00IN-001.003
A:   0 T:   0
N2-Exp0-Adder1-Ckt3

8InputAdder
Last Alarm:

Last Trouble:

=====
02-00-00IN-001.004
A:   0 T:   0
N2-Exp0-Adder1-Ckt4

8InputAdder
Last Alarm:
|
Last Trouble:

=====
02-00-00IN-001.005
A:   0 T:   0
N2-Exp0-Adder1-Ckt5

8InputAdder
Last Alarm:

Last Trouble:

=====
02-00-00IN-001.006
A:   0 T:   0
N2-Exp0-Adder1-Ckt6

8InputAdder
Last Alarm:

Last Trouble:

=====
02-00-00IN-001.007
A:   0 T:   0
N2-Exp0-Adder1-Ckt7

8InputAdder
Last Alarm:

Last Trouble:

=====
02-00-00IN-001.008
A:   0 T:   0
N2-Exp0-Adder1-Ckt8

8InputAdder
Last Alarm:

Last Trouble:

=====
----- End of report -----

```


5.8 6. 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 want to manually set the Day/night mode.



Note: If the **Enable Auto After Hours** option has not been not enabled in the Configurator, then the display shows the message “Auto mode not configured” when you select the “Day/Night mode” option.

Step 1: Select Day/Night Mode

- Command Menu -
4 Input Simul.
5 Walktest
6 Day/night mode

1. Use  and  to scroll the cursor to “Day/Night mode”.

2. Press  to continue.

Step 2: Enter your passcode (if required)

Enter passcode for
level 2 or higher:

Enter your passcode. See page 16 for instructions on entering passcodes.

Step 3: Select “yes” or “no”

Day/night mode set
to auto daytime
operation
Change?Y

1. Use  and  to select “yes” or “no”.



2. Press  to continue.

At this point the display varies, depending on your choice:

- **If you selected “yes”**, continue to step 4.
- **If you selected “no”**, the display shows the message “Operation cancelled”, and then it returns to the Command Menu.

Step 4: Select mode

- Select Mode -
1 Manual Daytime
2 Manual Night
3 Auto day/night

1. Use  and  to select “Manual Daytime”, “Manual Night”, or “Auto day/night”.

2. Press  to continue.

The display returns to the Command Menu.



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

5.9





7. Set Time



Note: To set the date, you must use the Configurator.

Step 1: Select Set Time

- Command Menu -
6 Day/Night mode
7 Set Time
8 Clear Event Log

1. Press  to select the Command Menu.
2. Use  and  to scroll the cursor to "Set Time".
3. Press  when the cursor flashes beside "Set Time" to select the Set Time option.






Step 2: Enter your passcode (if required)

Enter passcode for
level 2 or higher:

Enter your passcode. See page 16 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  to return to the Command Menu.
The system displays the message "Time updated", then returns to the Command Menu.

5.10

8. Clear Event Log





Select this option if you want to clear the Alarm Log, General Log, Walk Test Log, or all the logs.



Note: This option clears the logs on all the nodes.

Step 1: Select Clear Event Log

- Command Menu-
6 Day/Night mode
7 Set Time
8 Clear Event Log

1. Press  to select the Command Menu.
2. Use  and  to scroll the cursor to "Clear Event Log".
3. Press  to continue.

Step 2: Enter your passcode (if required)






Enter passcode for level 2 or higher:

Enter your passcode. See page 16 for instructions on entering passcodes.

Step 3: Select the log to clear

- Select Log -
1 Alarm Log
2 Event Log
3 Walktest Report
4 All Logs

Are you sure you want to clear all the entries in the selected log(s)?Y

1. Use  and  to select the log you want to clear.
2. Use  and  to select "yes" or "no".
3. Press  to continue.




The system displays the messages "Please stand-by erasing log..." and then "Log(s) cleared", then returns to the Command Menu.

5.11 9. Clear Verification Counter

Select this option if you want to clear the verification counter.

Step 1: Select Clear Verification Counter

- Command Menu-
7 Set Time
8 Clear event log
9 Clr Verif Count

1. Use  and  to scroll the cursor to "Clear Verif Count".
2. Press  to continue.




Step 2: Enter your passcode (if required)

Enter passcode for level 2 or higher:

Enter your passcode. See page 16 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  to continue.

At this point the display varies, depending on your choice:




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

5.12 10. Network Restart

Use the Network Restart after downloading the FleX-Net™ FX-4000 configuration.

Step 1: Select Network Restart

- Command Menu -
8 Clear event log
9 Clr Verif Count
10 Network Restart

1. Use  and  to scroll the cursor to "Network Restart".
2. Press  to continue.




Step 2: Enter your passcode (if required)

Enter passcode for
level 2 or higher:

Enter the passcode. See page 16 for instructions on entering passcodes.
Default is Level 2 passcode required.

Step 3: Select "yes" or "no"

Are you sure you
want to reboot whole
network (all nodes
and CPUs)?Y

1. Use  and  to select "yes" or "no".
2. Press  to continue.

At this point the display varies, depending on your choice:

- **If you selected "no"**, the display shows the message "Operation cancelled", then it returns to the Command Menu.
- **If you selected "yes"**, the system begins a reset and the display shows the following message:




Initial system self
checks in process ...
Version 1.6.3

5.13 11. Configuration

Select this option if you want to see the information regarding the configuration in the system.

Step 1: Select Configuration

- Command Menu -
9 Clr Verif Count
10 Network Restart
11 Configuration

1. Use  and  to scroll the cursor to "Configuration".
2. Press  to continue.

Step 2: Enter your passcode (if required)




Enter passcode for
level 2 or higher:

Enter the passcode. See page 16 for instructions on entering passcodes.

Default is Level 2 passcode required.

Step 3: Select the option

- Configuration -
1 Config Info
2 Select Version
3 Factory

1. Use  and  to select one of the three options, described below.
2. Press  to continue.

5.13.1 Config Info

The FleX-Net™ FX-4000 display shows the following while in Config Info mode:

- Config Info -
KeyID: 0x0054a06c
ESDNo: 00001010
TechNo: 00000001

Press the down arrow button to see the build time (the date and time when the firmware on the CPU was built).

Press the down arrow button again to see the BACnet information.

Press the down arrow button again to see the IP information for this node (the IP address, the subnet mask, and the default gateway).

Press the down arrow button again to see the version of the FPGA chip; this information is for troubleshooting.

5.13.2 Select Version

Select this option if you want to select the configuration version to make active.




Step 1: Select Choose Configuration

- Configuration -

1 Config Info

2 Select Version

3 Factory

1. Use  and  to scroll the cursor to "Select Version".
2. Press  to continue.

Step 2: Enter your passcode (if required)

Enter passcode for level 2 or higher:

Enter your passcode. See page 16 for instructions on entering passcodes.

The FleX-Net™ FX-4000 display shows the following while in Select Version mode:




Step 3: Select the configuration version to load

- Select Version -

1 V1: Job




2 V2: Job Rev 2

3 V3: Job Rev 3

1. Use  and  to select the which version of configuration you wish to make active.
2. Press .

Step 4: Select "yes" or "no"

Are you sure you want to change the system configuration ?Y

1. Use  and  to select "yes" or "no".
2. Press  to continue.

At this point the display varies, depending on your choice:

- If you select "no", the display shows the message "Operation Cancelled", then it returns to the Command Menu.
- If you select "yes", the system restarts and the display shows:

System
Configuration
in process ...

5.13.3 Factory






Attention: If you select this option, all the configuration information on the system will be erased.

Use the Factory option to reset the panel to its factory default settings.

Step 1: Select Choose Configuration

- Configuration -
1 Config Info
2 Select Version
3 Factory

1. Use  and  to scroll the cursor to "Factory".
2. Press  to continue.



Step 2: Enter your passcode (if required)

Enter passcode for level 2 or higher:

Enter your passcode. See page 16 for instructions on entering passcodes.

Step 3: Select "yes" or "no"

Are you sure you want to change the system configuration ?Y

1. Use  and  to select "yes" or "no".
2. Press .

At this point the display varies, depending on your choice:

- **If you selected "no"**, the display shows the message "Operation cancelled", then it returns to the Command Menu.
- **If you selected "yes"**, the system is restored to factory defaults and all the configuration information is erased.

5.14 12. Signal Silence Inhibit Timer




Select this option to enable or disable the signal silence inhibit timer. This timer determines the time during which you cannot silence the alarm or reset the system.



Note: If the **Signal Silence Inhibit** option in the Configurator has been set to 0 seconds, then the display shows the message "Sig. silence inhibit timer is not set" when you select the "Sig Sil Inh Tmr" option.

Step 1: Select Signal Silence Inhibit Timer

- Command Menu
10 Network Restart
11 Configuration
12 Sig Sil Inh Tmr

1. Use  and  to scroll the cursor to "Sig Sil Inh Tmr".
2. Press  to continue.





Step 2: Enter your passcode (if required)

Enter passcode for level 2 or higher:

Enter your passcode. See page 16 for instructions on entering passcodes.





If the signal silence inhibit timer is enabled

Sig. silence
inhibittimer is
enabled
Disable?Y

- Press  to disable the Signal Silence Inhibit Timer.
- Or
- Use  and  to select or "no", then press  to return to the command menu.

If the Signal Silence Inhibit Timer is disabled

Sig. silence
inhibittimer is
disabled
Enable?Y

- Press  to enable the Signal Silence Inhibit Timer.
- Or
- Use  and  to select or "no", then press  to return to the command menu.

5.15 Reading Component IDs

Components such as devices and zones have the following structure when they appear on the display:

Node Number - CPU Number - Loop Number+Circuit Type - Circuit Number

Node Number – The two-digit number assigned to the node.

CPU Number – The two-digit number assigned to the node's CPU.

Loop Number – The two-digit number assigned to the loop the device is on, if applicable.

Circuit Type – The two-letter code that identifies the type of circuit. This is used to distinguish between an input circuit, zone, interval, timer, and status. The circuit type uses the following abbreviations:

- **IN** - Local input circuit

- **Opt** - Output circuit
- **IZ** - Input zone
- **OZ** - Output zone
- **IT** - Custom Interval
- **TM** - Custom Timer
- **ST** - Common System Status
- **NS** - Local Node Status
- **CS** - CPU Status of all the displays in the system

Circuit Number – The number assigned to each status, switch, timer, interval, zone or input.

For example, an AP photo detector on node 2, CPU 1, Loop 3 with the address S104.1 in the Configurator has this ID on the display: **02-01-03IN-S104.001**

A double asterisk (**) appears if there is no applicable value for certain components. For example, an input zone has an ID like **01-**-**IZ-0001** because it has no CPU number or Loop number.

6.0 Microphone Paging Operation

6.1 Making a Page

1. Select a zone on the page selector.
2. Remove the microphone from its holder and press and hold the button on the microphone.
3. Speak into the microphone when the Page Ready LED is illuminated on the microphone panel.
4. Press the Page Cancel button to cancel the page.

6.2 Making an All Call

1. Press the All Call button on the paging selector panel to select all amplifiers for voice paging.
2. Remove the microphone from its holder and press and hold the button on the microphone.
3. Speak into the microphone when the Page Ready LED is illuminated on the microphone panel.
4. Press the Page Cancel button to cancel the page.

6.3 Page to Evac

1. Press the Page to Evac button on the paging selector panel to select all the audio zones currently in evacuation mode, for paging.

6.4 Page to Alert

1. Press the Page to Alert button on the paging selector panel to select all the audio zones currently in alert mode, for paging.

6.5 Making a Warden Page (Page by Phone)

The Warden Page button enables voice paging from a remote Fire Fighter's Telephone to all zones selected for paging.

1. A person at a remote Fire Fighter's Telephone initiates a call.
2. The Master Telephone operator answers the call by pressing the flashing switch on the telephone selector panel.
3. The person at the remote telephone requests a warden page.
4. The Master Telephone operator presses the Warden Page switch on the microphone panel and then selects a zone for paging. (Alternatively, the Master Telephone operator can press the Warden Page switch and then the All Call switch on the microphone panel to enable a page to all zones.)
5. The person at the remote telephone can now page the selected zone or zones.
6. When the Warden Page is completed, the operator presses the Page Cancel switch.

7.0 Telephone Operation

7.1 Answering the Telephone

1. When any telephone zone rings (the local buzzer sounds intermittently, and the green zone LED and Incoming Call LED flash), press that zone's button on the telephone selector panel once to answer.

Once any one zone has been answered, calls from any other zone causes that zone's green LED and the Incoming Call LED at the master telephone to flash and the buzzer to sound.

2. Press the answered zone's button once again to hang up. (Note that the telephone zone hangs up automatically if all handsets on the zone are placed back on the hook.)

7.2 Making a Call from a Master Telephone

1. Press the Call Control button on the telephone selector panel to connect this master telephone with all master telephones.
2. Press the Deselect All button to disconnect all master telephones call initiated from this node.

7.3 Making a Call to a Master Telephone

1. Press the telephone selector button on the telephone selector panel to connect this telephone to the master telephone.
2. Press the telephone selector button a second time to hang up.

