

FX-240N

Network Fire Alarm Control Panel



Table of Contents

1.0	Introduction	4
1.1	About this Manual	4
2.0	Front Panel Indicators, Controls, and Operation	5
2.1	Front Panel Indicators and Control Locations (Model DSPL-420DS)	5
2.2	Graphic Front Panel Indicators and Control Locations (Model DSPL-2440DS)	6
2.3	Front Panel Indicators and Control Locations (Model DSPL-420-16TZDS)	6
2.4	Common Indicators	7
2.5	Display Controls	9
2.6	Common Controls	10
3.0	Troubleshooting	12
4.0	Start Up	13
4.1	Passcodes	14
4.2	Factory Defaults	14
4.3	Menu Mode	15
5.0	Front Panel Menu Operation	18
5.1	Reports Menu	18
5.2	Bypass Menu	29
5.3	Alternate Menu Option: Manual Control Enable	39
5.4	Alternate Menu Option: Unlock Common Controls	40
5.5	Manual Control	41
5.6	Input Simulation	42
5.7	Walk Test	43
5.8	Day/Night Mode	50
5.9	Set Time	51
5.10	Clear Event Log	52
5.11	Clear Verification Counter	53
5.12	Network Restart	53
5.13	Configuration	54
5.14	Signal Silence Inhibit Timer	57
5.15	Reading Component IDs	58

1.0 Introduction

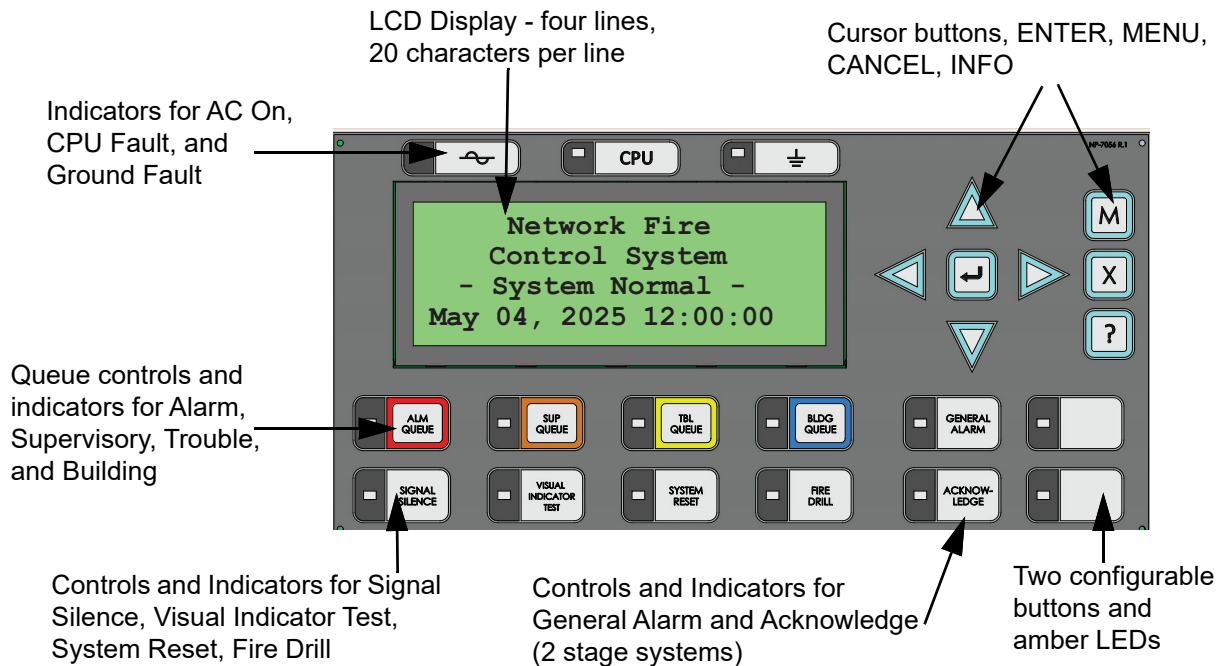
1.1 About this Manual

This user guide provides information on the Command Menu features of the FX-240N network fire alarm control panel. 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)

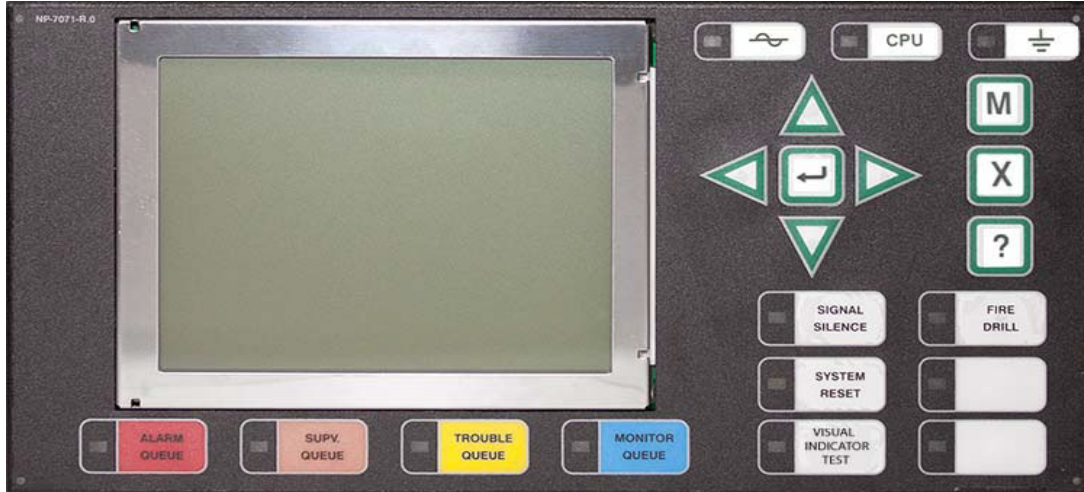


Note: The General Alarm LED and button, and the Acknowledge LED and button, are active only on a system configured for Two Stage.

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

Graphic Display - 24 lines,
40 characters per line

Indicators for AC On, CPU Fault, and Ground Fault



Cursor buttons:
ENTER,
MENU,
CANCEL,
INFO

Queue controls and indicators for Alarm, Supervisory, Trouble, and Building

Controls and Indicators for Signal Silence, Visual Indicator Test, System Reset, Fire Drill

Two configurable buttons and amber LEDs such as General Alarm and Acknowledge for Two-stage Systems

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

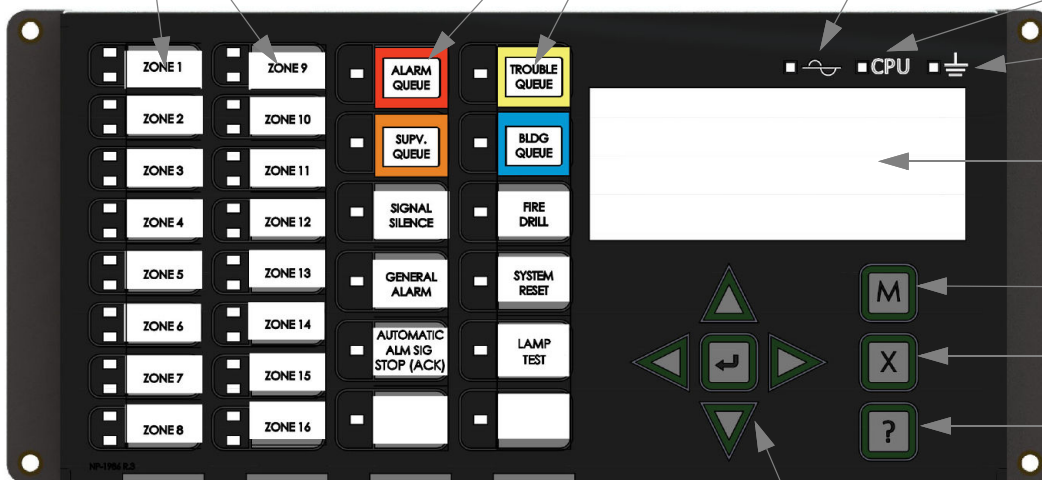
16 configurable bi-coloured zone indicators and 16 trouble indicators

Queue controls and indicators for Alarm, Supervisory, Trouble and Building

AC On Indicator

CPU Fault Indicator

Ground Fault Indicator



LCD Display
4 lines
20 characters

Menu

Cancel

Info

Control and indicators for Signal Silence, General Alarm, Automatic Alarm Signal Stop, Fire Drill, System Reset, Lamp Test and spare programmable buttons

Cursor buttons and Enter button

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 button are active only on a system configured for Two Stage.

2.4 Common Indicators

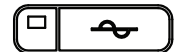
2.4.1 Buzzer

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 buttons 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 system 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 system 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 conditions are cleared.

2.4.7 CPU Fault LED



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

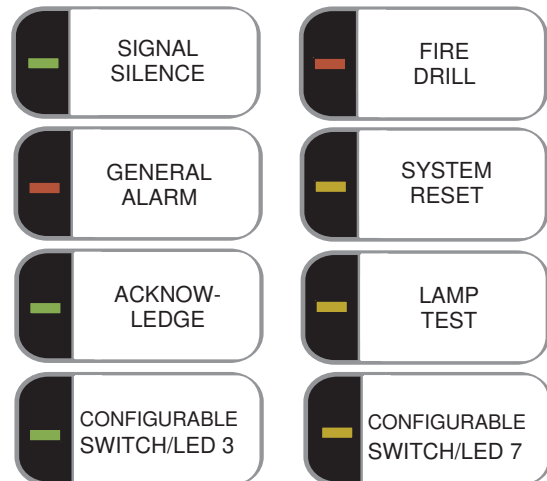
2.4.8 Ground Fault LED



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 system 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.

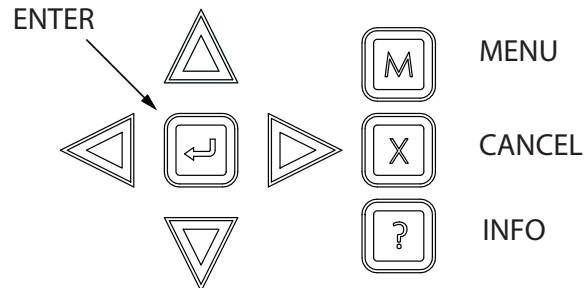
- Press the **Alarm Queue** button to cycle through all the unacknowledged alarms. Press  and  to cycle through all the alarms, both acknowledged and unacknowledged. Press the right cursor button  to scroll up by 10 events at a time. Press the left cursor button  to scroll down by 10 events at a time.
- 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 buttons 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 system 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 the MGC-240 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 Buttons and LEDs

These two buttons and LEDs can be used for any function listed in the MGC-240 Configurator Software. Such functions include Buzzer Silence, Auxiliary Disconnect, Total Evacuation, Bypass, System Inputs, and switching the display language (toggle between two selected locations).

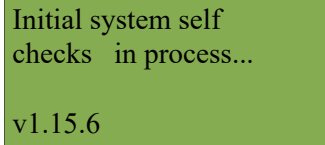
3.0 Troubleshooting

Message	Description
Unconfigured CPU Trouble	This message appears when additional annunciators 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 style="margin-left: 40px;"><Adder Type> N01C0 Frm 1 Hdr 0</p> <p style="margin-left: 40px;"><Adder Type> is the type of adder, for instance HOA Sw Adder.</p> <p style="margin-left: 40px;">N is the node, in this example Node 1.</p> <p style="margin-left: 40px;">C is the card; in this example it is Card 0 (the main board).</p> <p style="margin-left: 40px;">Frm is the frame position.</p> <p style="margin-left: 40px;">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.
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.
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.
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...


v1.15.6
```

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.

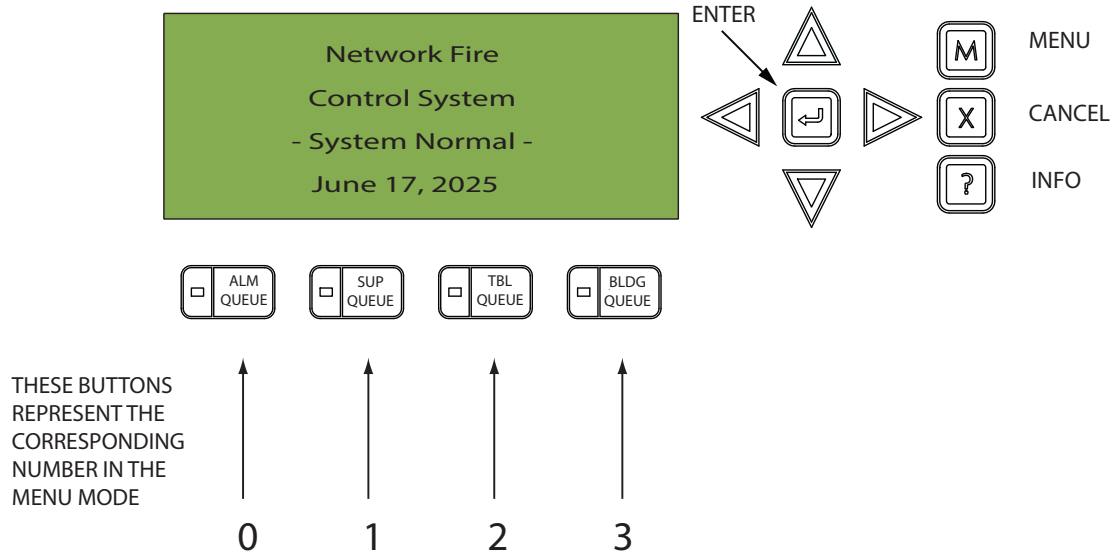
Download the configuration at each Node using a laptop computer and the MGC-240 Configurator. Once all the Nodes have been downloaded, connect the network and select the Network Restart (see section 5.12) at the CACF (Central Alarm and Control Facilities) or main node.

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-240 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.	Section 5.1.1
	Event Log	View or print all events: alarms, troubles, and button pushes.	Section 5.1.2
	Current Levels	View or print the current alarm level for analog devices.	Section 5.1.3
	Sensitivity Levels	View or print the sensitivity level for detectors.	Section 5.1.4
	Verification Count	View or print the number of times that devices have gone into pre-alarm status.	Section 5.1.5
	Maint Report	View or print detectors that are reading dirty or almost dirty.	Section 5.1.6
	Obscuration	View or print addressable detectors that have obscuration level capability.	Section 5.1.7
	CO Report	Not used.	Not used
	Serial Code	View or print the devices' serial numbers.	Section 5.1.9
	Power Source Report	View or print the primary (A/C) and FWR secondary (battery) power source.	Section 5.1.10
	Output Active	View or print all active outputs.	Section 5.1.11

Menu	Submenu	Description	How to Use
2. Bypass	Device/Circuit	Bypass or unbypass a device or circuit.	Section 5.2.1
	Node	Bypass or unbypass a node.	Section 5.2.3
	Loop	Bypass or unbypass a loop.	Section 5.2.4
	Relay disc	Disconnect or reconnect all relays.	Section 5.2.5
	Input Zone	Disconnect or reconnect an input zone.	Section 5.2.6
	Output Zone	Disconnect or reconnect an output zone.	Section 5.2.8
	Node Outputs	Disconnect or reconnect all outputs on a node.	Section 5.2.9
	Positive Alarm Sequence	Bypass or unbypass the positive alarm sequence.	Section 5.2.10
	Buzzer	Bypass or unbypass the buzzer.	Section 5.2.11
	Audio	Not used.	Not used
	Service mode	Put an initiating device into service mode.	Section 5.2.13
	CO Processing	Not used.	Not used
3. Man Ctrl Enable	NA	Require a passcode to use a button.	Section 5.3
4. Unlock Common Control	NA	Enable all common control buttons on the current display.	Section 5.4
5. Manual Control	NA	Manually activate an output.	Section 5.5
6. Input Simulation	NA	Manually activate an input.	Section 5.6
7. Walk Test	Assisted (if configured)	Perform an assisted walk test for large systems.	Section 5.7.1
	Audible Test	Perform an audible walk test.	Section 5.7.2
	Silent Test	Perform a silent walk test.	Section 5.7.3
	Walk Test Report	View the walk test report.	Section 5.7.4
8. Day/night mode	NA	Select day or night mode, if the modes are configured for different sensitivity levels.	Section 5.8
9. Set Time	NA	Set the time.	Section 5.9
10. Clear Event Log	Alarm Log	Clear the alarm log.	Section 5.10
	Event Log	Clear the event log.	Section 5.10
	Walktest Report	Clear the walk test report.	Section 5.10
	All Logs	Clear all the logs.	Section 5.10
11. Clear Verification Count	NA	Clear all alarm verification counters.	Section 5.11
12. Network Restart	NA	Restart the system after system configuration download is completed.	Section 5.12
13. Configuration	Config Info	View the configuration information.	Section 5.13.1
	Select Version	Select the version of the job to make active.	Section 5.13.2
	Factory	Reset the system to factory defaults.	Section 5.13.3
14. 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).	Section 5.14



Note: If you have used the Configurator to program the “Manual Enable on Menu” option, there is an additional option, “Man Ctrl Enable”, after “Bypass”. For more information on this option, see section 5.3.

If you have used the Configurator to enable Node Control and lock controls, there is an additional option “Unlock Common C”, after “Bypass”. For more information on this option, see section 5.4.


5.0 Front Panel Menu Operation

5.1 Reports Menu

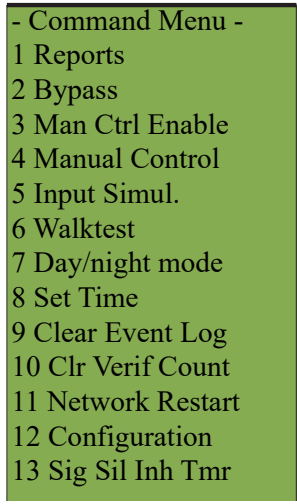
Use the Reports Menu to print the Alarm Log, Event Log, Current Levels, Sensitivity Levels, Verification Counts, Maintenance Report, Obscuration, Serial Code, Power Source, and Output Active. You can view on screen, or print directly to a printer connected to the panel, or to your laptop computer.






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.

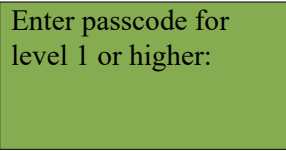
Step 1: Select the reports menu



- Command Menu -
1 Reports
2 Bypass
3 Man Ctrl Enable
4 Manual Control
5 Input Simul.
6 Walktest
7 Day/night mode
8 Set Time
9 Clear Event Log
10 Clr Verif Count
11 Network Restart
12 Configuration
13 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 section 4.1 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
 Jan 23, 2026 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	<ol style="list-style-type: none"> 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	<ul style="list-style-type: none"> • 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 Jan 23, 2026 10:24:29 Active Reports command	<ul style="list-style-type: none"> • 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	<ol style="list-style-type: none"> 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





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 % **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
01-01-01IN-001.001
PhotoH 135 (4020)
% 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**.

Node 1 Card 1 Lp 1
 01-01-01IN-001.001
 PhotoH 135 (4020)
 Lvl: 3.50%/ft

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.




- 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 or loops 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
01-01-01IN-001.001
Photo-H 135 (4010)
Verif. Count: 1




- 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
01-01-01IN-001.001
Photo-H 135 (4010)
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
01-01-01IN-S001.001
PhotoH 135 (4020)
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 feature is not used.

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

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
01-01-01IN-200.001
Heat 135/ROR (4030)
S/N xxxxxxxxxxxx

The second and third line pinpoint the exact device.




- 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

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

Step 2: Select node



- Select Node -
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





- Select Node -

 Node:ALL

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

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

01-00-00Opt-000.000
 01-00-00Opt-000.001
 01-00-00Opt-000.002
 01-00-00Opt-000.003




- 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.

5.2 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

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

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





Step 2: Enter your passcode (if required)

Enter passcode for level 1 or higher:

Enter your passcode. See section 4.1 for instructions on entering passcodes.

Step 3: Select the option you want to view

- 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
11 Service mode
12 CO Processing

1. Use  and  to scroll the cursor through the Bypass Menu.
 2. Press  to select an option.
- Press  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.


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 section 4.1 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
02-01-01IN-002.001
Tag 1

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

Tag1
Tag 2
01-01-01IN-002.001
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

Use this option to isolate a node.

To unbypass the node, follow the same procedure for node bypass.




Step 1: Select node 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






Use this option to bypass or unbypass an entire loop of addressable devices, all NACs, or a whole expansion from a panel.

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




Step 1: Select loop bypass

- Bypass Menu - 1 Device/Circuit 2 Node 3 Loop	<ol style="list-style-type: none"> 1. Use  and  to scroll to "Loop". 2. Press  to continue.
---	--

Step 2: Select node, card, or loop

Select Node, Card & Loop Node: 1	<ol style="list-style-type: none"> 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 number, then press . <ul style="list-style-type: none"> • You can also choose all nodes, cards, expansions, loops or adders by selecting ALL.
--	---

Step 3: Bypass the loop

Bypass?Y	<p>The system asks whether or not you want to bypass or unbypass the loop.</p> <ol style="list-style-type: none"> 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.

5.2.5 Relay Disc

Use this option to disconnect the common auxiliary relays.

To reconnect the relays, follow the same procedure.




Step 1: Select relay disc

- Bypass Menu - 2 Node 3 Loop 4 Relay Disc	<ol style="list-style-type: none"> 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 “Relays 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 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




Zone: UP or DOWN
Tag 1
Tag 2
01-**-**IZ-001

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

Step 4: Bypass the zone

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

01-**-**IZ-0001
Bypass?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 either the message “Zone bypassed” or “Zone unby passed”, 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 unby pass an input zone that went into alarm while it was by passed, the following message appears:

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

If you select “yes” to unby pass this zone, the system immediately goes into alarm. To avoid this problem, press the System Reset button before unby passing the zone.

5.2.8 Output Zone






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

Use this option to by pass an entire zone of addressable devices from the panel. Usually this is done during building maintenance.

To unby pass the output zone, follow the same procedures for output zone by pass.




Step 1: Select output zone by pass

- Bypass Menu -
4 Relay Disc
5 Input Zone
6 Output Zone

1. Use  and  to scroll to “Output 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.

If there is no output zone on this node, the message “No input zone on this CPU” appears.

Step 3: Select a zone




Zone: UP or DOWN
Tag 1
Tag 2
01-**-**OZ-001

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

Step 4: Bypass the zone

01-**-**OZ-0001
Bypass?Y

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

Use this option 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

Use this option to bypass the positive alarm sequence (PAS).

To unbypass the positive alarm sequence, follow the same procedure.

Step 1: Select positive alarm sequence

- 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.

If the positive alarm sequence is not configured or is currently running, the message "Pos. Alm. Sequence not Configured or is running now" appears.

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

Use this option to bypass or unbypass all buzzers in the system.

To unbypass the buzzer, follow the same procedure.

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 feature is not used.

5.2.13 Service Mode (Soft Bypass)

This option lets you put an initiating device into service mode. While in service mode, the device is a supervisory input and continues to display when operated, but the alarm signals, the fire department connection and any programmed control functions do not operate.

Step 1: Select service mode

- Bypass Menu -
 10 Audio
 11 Service Mode
 12 CO Processing

Press  when the cursor is flashing beside "Service Mode".

Step 2: Enter your passcode






Enter passcode for level 1 or higher:

Enter your passcode. See section 4.1 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 put into service mode




- Select Device -
 Device: UP or DOWN
 02-01-01IN-001.001
 Tag 1

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

Step 5: Confirm

```
Tag 1
Tag 2
02-01-01IN-001.001
Put in service?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 in service mode”, 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.

Take a device out of service mode

To take a device out of service mode, follow the steps in section 5.2.13.

At step 5, the following message appears:

```
Tag 1
Tag 2
02-01-01IN-001.001
Back to normal?Y
```

If you select “yes”, the message “Device/circuit normal” appears.

5.2.14 CO Processing

This feature is not used.

5.3 Alternate Menu Option: Manual Control Enable



Note: You will see this option in the Command Menu only if the display has been configured with the “Manual Enable on Menu” feature.




This feature does not change after a system reset.

This option provides security on the control buttons by requiring the user to enter a passcode or activate a key switch before a specific button will function. This “Manual Enable on Menu” feature is set up using the Configurator, and can affect any number of control buttons. When you press a button that is locked, the message “Switch Disabled. Manual Enable Required” appears on the display.

Enabling the **Man Ctrl Enable** option in the Command Menu or turning the key switch unlocks the locked buttons.

5.3.1 Selecting Manual Control Enable from the Menu




Step 1: Select manual control enable


- Command Menu - 1 Reports 2 Bypass 3 Man Ctrl Enable	<ol style="list-style-type: none"> 1. Use  and  to scroll the cursor to “Man Ctrl Enable”. 2. Press  to continue.
--	--

Step 2: Enter your passcode (if required)


Enter passcode for level 1 or higher:	Enter your passcode. See section 4.1 for instructions on entering passcodes.
---------------------------------------	--

Step 3: Enable manual control

Manual control currently disabled. Enable?Y	<p>The system asks whether or not you want to enable manual control (unlock the locked buttons).</p> <ol style="list-style-type: none"> 1. Use  and  to select “yes” or “no”. 2. Press  to continue.
--	---

The display shows the message “Manual control enabled”, and the panel is in a trouble condition. To check which display the buttons are unlocked on, press the  button. To lock the buttons again, follow the same steps outlined above.

5.3.2 Selecting manual control enable using a key switch

- You can set up FX-240N to require the activation of a key switch instead of a passcode to unlock the buttons. Once the key switch is operated, the display shows the message “Manual control enabled”, and the panel is in a trouble condition. To check which display the buttons are unlocked on, press the  button. To lock the buttons again, reset the key switch.

5.4 Alternate Menu Option: Unlock Common Controls






Note: You will see this option in the Command Menu if your system has been programmed for node control and if controls on the display have been locked. The display must be configured with the “Node Control on Menu” feature.

Select this option to unlock all controls that have been locked on the current display.

5.4.1 Selecting Unlock Common Controls from the Menu

Step 1: Select unlock common controls

- Command Menu -
1 Reports
2 Bypass
3 Unlock Common C

1. Use  and  to scroll the cursor to "Unlock Common C".
2. Press  to continue.

Step 2: Enter your passcode (if required)




Enter passcode for level 1 or higher:

Enter your passcode. See section 4.1 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.




To lock the controls, follow the same steps outlined above.

5.5 Manual Control

Use this option 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 -
2 Bypass
3 Man Ctrl Enable
4 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 section 4.1 for instructions on entering passcodes.




Step 3: Select output

- Select Device -
Node: 1

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-001.002
Tag 1

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

Step 5: Select state

- Select State -
1 Normal
2 Alert rate
3 Evac rate




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.

5.6 Input Simulation

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

Step 1: Select input simulation

- Command Menu -
3 Man Ctrl Enable
4 Manual Control
5 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 section 4.1 for instructions on entering passcodes.




Step 3: Select node, card, and loop

```
- Select Device -
Node: 1
Card: 1
Loop: 1
Device: 001
```

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-001.001
Tag 1
```

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

Step 5: Activate device

```
2021-03-28 12:19:38
Tag 1
Tag 2
ALM 001 of 001
```

The display goes back to the command menu. The queues show the device that is activated and the time it was activated.

5.7 Walk Test

Use the walk test to test the devices in a system. Performing a walk test places the system in trouble (non-latching).




The options available in the walk test menu depend on how the panel is configured and whether it is a multi-node or single node system. The FX-240N system supports the ability to define walk test areas in the configuration. This is called the assisted walk test. It is in silent mode only, and it is the only walk test option available on a multi-node system. If there are no areas defined on a multi-node system, an error appears when attempting to perform a walk test.

On a single node system with no areas defined in the configuration, the panel supports an additional walk test, called "One Man." This test can be done in audible or silent mode. On a single node system with areas defined in the configuration, the assisted walk test is the only available option.



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 - 4 Manual Control 5 Input Simul. 6 Walktest	<ol style="list-style-type: none"> Use  and  to scroll the cursor to "Walktest". 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 section 4.1 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 (Multi-Node or Single Node System)

The assisted walk test must be configured using the Configurator. The options shown at **Step 2: Select the walk test configuration** below are the walk test areas defined using the Configurator. The assisted walk test is 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 appears when trying to start an assisted walk test.

Step 1: Select the assisted walk test option

- Walktest - 1 Assisted 2 Walktest report	<ol style="list-style-type: none"> Use  and  to scroll the cursor through the menu. Press  to select the "Assisted" option. <p>Press  to exit and return to the Command Menu.</p>
---	---

Step 2: Select the walk test configuration

- Walktest - 1st Floor 2nd Floor	<ol style="list-style-type: none"> Use  and  to scroll the cursor through the menu. Press  to select a Walk Test Configuration. <p>Press  to exit and return to the Command Menu.</p>
--	---


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.

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 Assisted
3 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 (hr) 1

1. The default duration of Walk Test is 1 hour. 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.

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 Assisted
3 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 (hr) 1

1. The default duration of Walk Test is 1 hour. 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


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


```
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.

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 Assisted
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 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.

A = total number of alarm events for the device.

T = total number of trouble events for the device.




Use  and  to scroll the cursor through the report.


Press  to exit and return to the Command Menu.

5.7.6 Walk Test Printer Report

Step 1: Select the walk test report




- Walktest -
 1 Assisted
 2 Walktest report


1. Use  and  to scroll the cursor through the menu.
2. 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

1. Use  and  to scroll the cursor through the menu to Printer.
2. Press  to select Printer.

Press  to exit and return to the Command Menu.

5.8 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 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 -
 5 Input Simul.
 6 Walktest
 7 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 section 4.1 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





Set Time



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

Step 1: Select set time

- Command Menu -
7 Day/Night mode
8 Set Time
9 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 section 4.1 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 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 -

7 Day/Night mode

8 Set Time

9 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 section 4.1 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

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.




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

5.11 Clear Verification Counter

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

Step 1: Select clear verification counter

- Command Menu -
8 Set Time
9 Clear event log
10 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 section 4.1 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 Network Restart

Use the Network Restart after sending a job from the MGC-240 Configurator to the panel.

Step 1: Select network restart

- Command Menu -
9 Clear event log
10 Clr Verif Count
11 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 section 4.1 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 ...
CPU Address xx
Version x.x.x

5.13 Configuration

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

Step 1: Select configuration

- Command Menu -
10 Clr Verif Count
11 Network Restart
12 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 section 4.1 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 FX-240N display shows the following while in Config Info mode:

- Config Info -
KeyID: 0000000000
ESDNo: xxxxxxxxxxxx
TechNo: xxxxxxxxxxxx

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.




Press the down arrow button again to see the port settings. This information is for troubleshooting.

Press the down arrow button again to see the loop card information. 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 section 4.1 for instructions on entering passcodes.
---------------------------------------	--

The FX-240N 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 section 4.1 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 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 -
11 Network Restart
12 Configuration
13 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 section 4.1 for instructions on entering passcodes.





If the signal silence inhibit timer is enabled

Sig. silence inhibit timer 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 inhibit timer 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, button, timer, interval, zone or input.

For example, a photo detector on node 2, CPU 1, Loop 1 with the address 4.1 in the Configurator has this ID on the display: **02-01-01IN-004.001**

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.



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