Mircom

FleXNet™

Network Intelligent Fire Alarm and Audio System

User Guide

LT-893 Rev. 2
September 2021

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1.0 Introduction

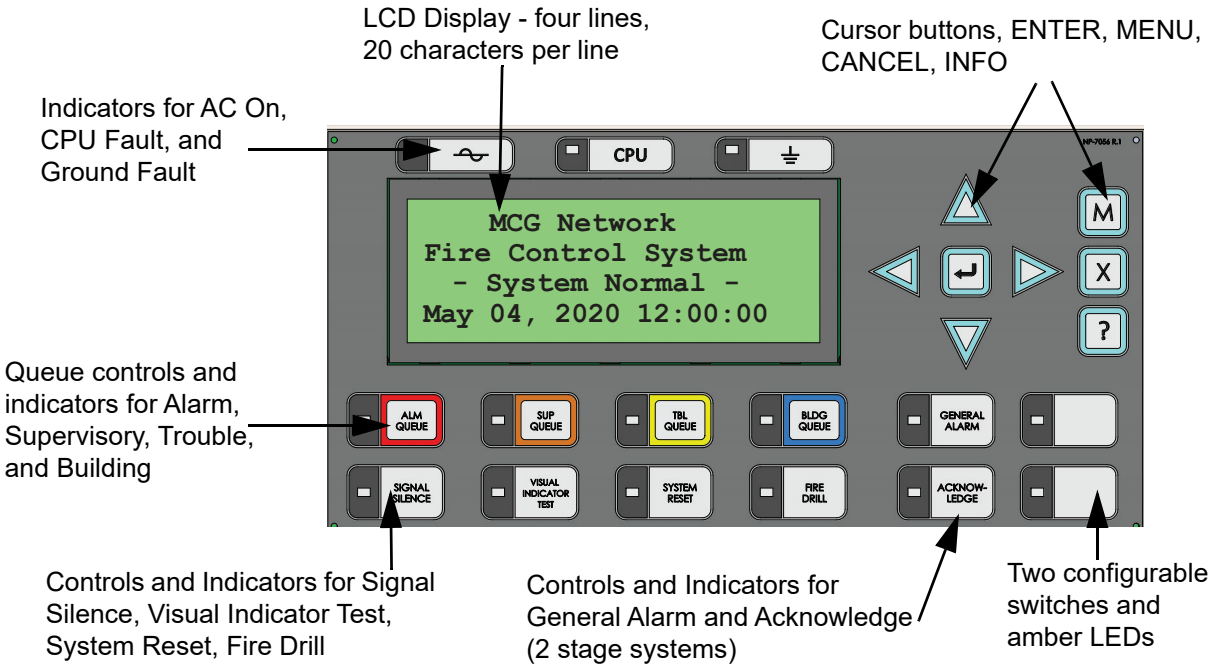
1.1 About this Manual

This user guide provides information on the Command Menu features of the FleX-Net™ Network Fire Alarm and Audio 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

2.0 Front Panel Indicators, Controls, and Operation

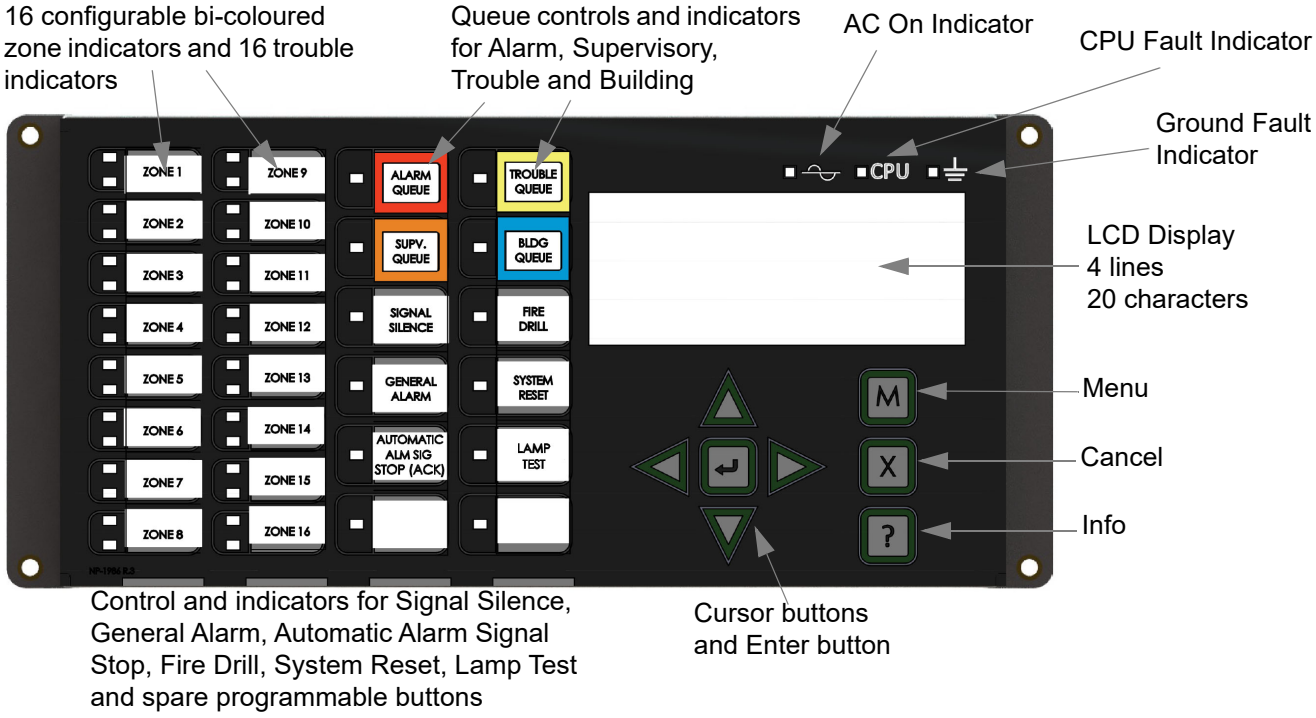
2.1 Front Panel Indicators and Control Locations (Model DSPL-420(DS))



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 Supv. 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

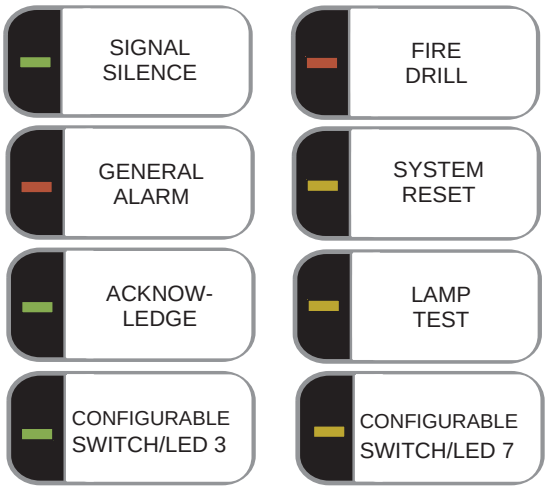
The CPU Fault LED flashes amber at the trouble flash rate when the main CPU fails.

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 include16 bi-coloured LEDs that are available for alarm, supervisory, and monitor annunciation paired with 16 trouble LEDs available for trouble annunciation.

2.5 Common 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.

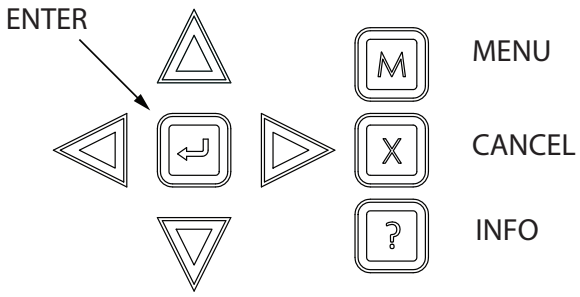
2.5.2 Queue Buttons

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.

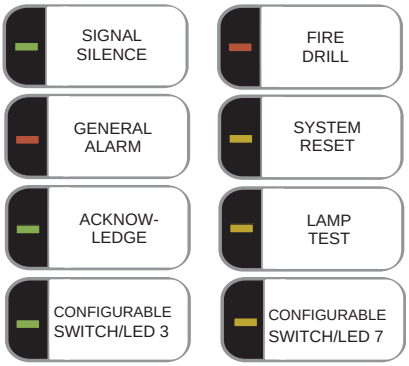
- Press the **Building Queue Button** to cycle through all the unacknowledged building (monitor) conditions. Press  and  to cycle through all queued monitor conditions, both acknowledged and unacknowledged. Press the right cursor button  to scroll up by 10 events at a time. Press the left cursor button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

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.

2.5.8 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.

2.5.9 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.

2.5.10 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.

2.5.11 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 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 FleX-Net™ Configurator Software.

2.5.12 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.

2.5.13 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 one minute, the Common Trouble LED activates.

2.5.14 Configurable Switches and LEDs

These two switches and LEDs can be used for any function listed in the Mircom's FleX-Net™ Configurator Software. Such functions include Buzzer Silence, Auxiliary Disconnect, Total Evacuation, Bypass, System Inputs, and Fan Control.

2.5.15 Emergency Voice Control

Request control, press button, Deny control by timeout, Grant press button to transfer control.

Each Node will have an assigned request control and grant button and LED (one button/LED per Node) to transfer emergency voice control. All Node Request/Grant button and LEDs will be available at all Nodes. For example if there are 3 Nodes, each Node will have 3 Request/Grant buttons and LEDs representing all the Nodes 1 to 3.

To gain immediate emergency voice control, press the Node Request/Grant button, LED will illuminate steady and voice control will be available at that physical Node.

Request Control - press the Request/Grant button at the Node that will be used to provide emergency voice. The associated Request/Grant button LED will flash at the Node which has control.

Grant Control - press the Request/Grant button of the requesting Node (flashing LED) to grant control.

If a Node has emergency voice control the LED will be ON steady.

Deny is achieved through a timeout, which is configurable.

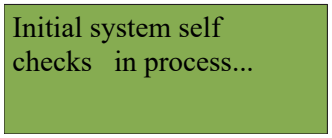
3.0 Troubleshooting

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.
I/O Adder Mismatch Trouble	This message appears when the hardwired adder modules are in the wrong order or the wrong quantity. If the number of physical hardwired adder modules does not match the number of modules listed in the configuration, the panel displays this message. It also displays this message if the adder modules are not connected.
Display Mismatch Trouble	This message appears when the number of display modules (RAX-1048TZDS), FDX-008W(KI), IPS-2424DS, and IPS-4848DS) connected to the panel do not match the number and the order of display modules listed in the configuration. Make sure the display modules are connected.
Unconfigured Device Trouble	This message appears when an analog device is physically installed but does not appear in the configuration program.
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-LCDs) Configuration Version Mismatch Trouble	This message appears when the firmware versions on all the CPUs are not compatible.
Slave (RAXN-LCDs) Configuration Address Mismatch Trouble	This message appears when the address(es) of the configured slaves does not match.
Slave Configuration Type Mismatch	This message displays if the physical loop adder does not match the loop adder type specified in the configuration program. For example, this message appears if the physical adder module is an ALC-396 and the specified adder module in the configuration program is an ALC-H16.
Wrong Device Type	This message appears if the type of analog device does not match the type that is listed in the configuration program. For example, this message appears if an ionization sensor at address 013 is physically connected to the panel but the configuration program has address 013 listed as a photoelectric sensor (or vice versa).
Multiple Unconfigured Device Trouble	This message appears if there are two identical (duplicate) devices at the same address on the same loop.
Data Link Failure	This message appears if the panel cannot communicate with a remote annunciator or an internal CPU on an adder module.
Data Link Trouble	This message appears when the panel has a communication error with a remote annunciator.
Program Version Mismatch (displayed on the RAXN-LCD only)	This message appears when the RAXN-LCD firmware version is not compatible with the FX-2000N firmware version.
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:



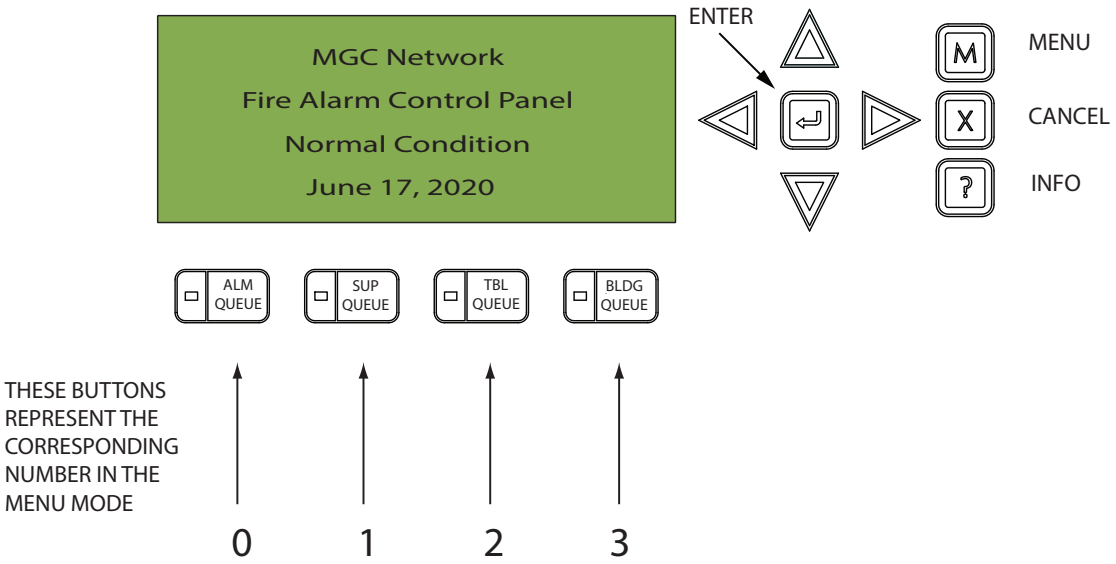
Let the system initialize for approximately one to two minutes.

Download the configuration at each Node using a laptop computer and Mircom's FleX-Net™ Configurator. Once all the Nodes have been downloaded, connect the network and select the Network Restart (see page 31) 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 [M], 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 3, 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:

Reports: 0

Aux. Bypass: 0

Device Bypass: 1

Walk Test: 1

Day/Night Mode: 0

Set Time: 1

Clear Event Log: 2

Clear Verification Count: 2

Config/Network Reset: 2

Manual Enable: 0

Note: You can change these access levels via the FleX-Net™ Configurator.

4.3 Menu Mode

Press the M button to activate the menu mode. The menu is broken down as follows:

Menu	Submenu	Description	How to Use
1. Reports	Alarm Log	View or print all the alarm events.	See page 20.
	Event Log	View or print all events: alarms, troubles, and button pushes.	See page 21.
	Current Levels	View or print the current alarm level for addressable devices.	See page 21.
	Verif. Count	View or print the number of times that devices have gone into pre-alarm status.	See page 23.
	Maint Report	View or print a report on detectors that are reading dirty or almost dirty.	See page 24.
	Current PWs	View or print the pulse width current report.	See page 25.
	Obscuration	View or print a report on addressable detectors that have obscuration level capability.	See page 26.
	CO Maint Report	View or print the months remaining on CO cells.	See page 27.
	AP Device Type	View or print a report on the Advanced Protocol device types.	See page 28.
	AP Device Data	View or print a report on the Advanced Protocol device information.	See page 29.
	AP Group Param	View or print a report on the output group configuration.	See page 30.
	AP Param List	View or print a report on Advanced Protocol device parameter information.	See page 31.
	Battery Voltage	View or print the battery voltage reading.	See page 32.
	Multi-Addresses	View or print a list of devices with the same address or the same serial number.	See page 33.

Menu	Submenu	Description	How to Use
2. Bypass	Device/Circuit	Bypass or unbypass a device or circuit.	See page 35.
	Relay disc	Disconnect or reconnect all relays.	See page 36.
	Input Zone	Disconnect or reconnect input zones per node.	See page 37.
	Node	Bypass or unbypass a node.	See page 38.
3. Walk Test	Assisted (if configured)	Perform an assisted walk test for large systems.	See page 39.
	Audible Test	Perform an audible walk test.	See page 42.
	Silent Test	Perform a silent walk test.	See page 44.
4. Day/night mode	NA	Select day or night mode, if the modes are configured for different sensitivity levels.	See page 51.
5. Set time	NA	Set the time and date.	See page 52.
6. Clear Event Log	Alarm Log	Clear the alarm log.	See page 53.
	Event Log	Clear the event log.	See page 53.
	All Logs	Clear all the logs.	See page 53.
7. Clear Verification Count	NA	Clear all alarm verification counters.	See page 53.
8. Pairing Sound B	NA	Synchronize the internal address of the sounder base with the address of the AP sensor it is connected to.	See page 54.
9. Network Restart	NA	Restart the system after system configuration download is completed.	See page 55.
10. Config Info	NA	View the configuration information.	See page 55.
11. Choose Config	NA	Select the version of the job to make active.	See page 56.
12. Signal Silence Inhibit Timer	NA	Specify the time during which you cannot silence the alarm or reset the system.	See page 57.

Note: If you have used the Configurator to program the “Enable Required” option in the Command Menu, the Command Menu list appears differently than what is shown above. Menu option three reads “Enable Required”, and “Walk Test” moves to menu option four. All subsequent menu options are similarly renumbered. For more information on the Enable Required option, see page 49.

5.0 Front Panel Menu Operation

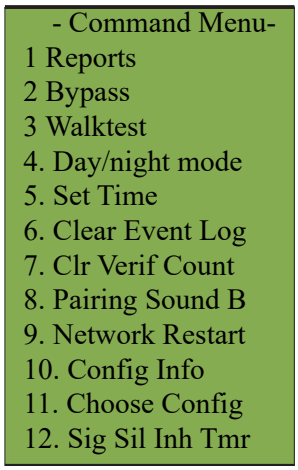
5.1 1. Reports Menu

Use the Reports Menu to print the Alarm Log, Event Log, Current Levels, Verified Counts, Maintenance report, Current PWs, Obscuration, CO Maintenance report, Battery Voltage report, and Multi-addresses report. 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 via the Configurator.

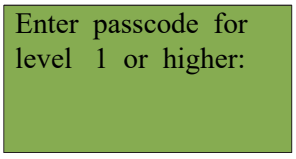
To enter the Reports Menu, you must be in the Command Menu. To enter the Command Menu, press M when the display is in normal mode.

Step 1: Select the Reports Menu



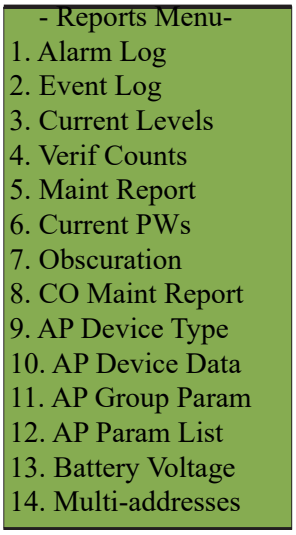
1. Use △ and ▽ to scroll the cursor to "Reports".
2. Press ↵ to select the Reports Menu.

Step 2: Enter your passcode (if required)



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

Step 3: Select the option you want to view



1. Use △ and ▽ to scroll the cursor through the menu.
2. Press ↵ to select an option.

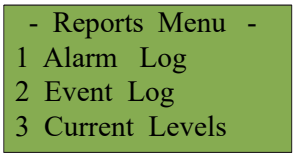
Press X to exit and return to the Reports Menu. Repeat to exit to the Command Menu.

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

5.1.1 Alarm Log

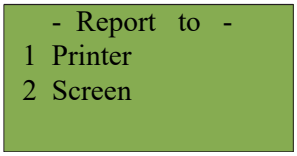
The Alarm Log reports on all alarm events. Alarm events are listed in order of the most recent event to the earliest. The maximum number of recorded alarm log entries is 1000. Once the system reaches 1000 entries, any new entry causes 500 of the oldest entries to be deleted.

Step 1: Select the alarm log



1. Use △ and ▽ to scroll to “Alarm Log”.
2. Press ↵ to continue.

Step 2: Print the alarm log



- To print the alarm log to the printer, press ↵ when the cursor flashes beside “Printer”.
- To print the alarm log to the screen, press ▽ then ↵ to select “Screen”. Follow the instructions below to navigate the alarm log.

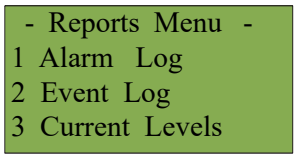
If you view the alarm log on the screen:

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

5.1.2 Event Log

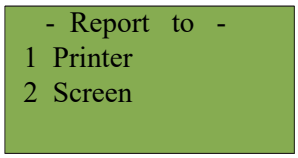
The Event Log reports on all events: alarms, troubles, and button pushes. Events are listed in order of the latest (most recent) event to the earliest. The maximum number of recorded event log entries is 2000. Once the system reaches 2000 entries, any new entry causes 1000 of the oldest entries to be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

Step 1: Select the Event Log



1. Use △ and ▽ to scroll the cursor to “Event Log”.
2. Press ↵ to continue.

Step 2: Print or view the event log



- 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.

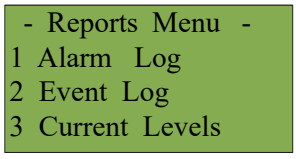
If you view the event log on the screen:

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

5.1.3 Current Levels

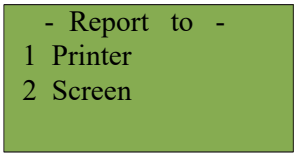
This option reports on the current levels of addressable devices.

Step 1: Select Current Levels



1. Use △ and ▽ to scroll the cursor to “Current Levels”.
2. Press ↵ to select the Current Levels submenu.

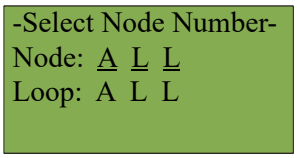
Step 2: Print or view the current levels



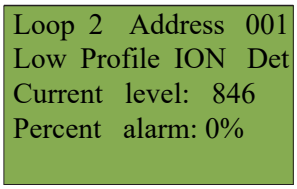
- To print the Current Levels report to the printer, press ↵ when the cursor flashes beside "Printer".
- To view the Current Levels report on the screen, press ▽ then ↵ to select "Screen".

Follow the instructions above to navigate the Current Levels.

Step 3: Select node and loop number



1. Select the node number by using △ and ▽ to scroll through the numbers.
2. Select the node by pressing ↵.
3. Select the loop number by using △ and ▽ to scroll the cursor through the loops.
4. Select the loop by pressing ↵.



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

The first and second lines pinpoint the exact device.

The **current level** is a point of reference number that is helpful to our technicians.

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

- Use △ and ▽ to scroll the cursor through the log.
- Press and hold ? for more information on the current level.
- Press X to exit to the Reports Menu.

5.1.4 Verified Counts

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 Verified Counts

```
 - Reports Menu -
2 Event Log
3 Current Levels
4 Verif Counts
```

1. Use △ and ▽ to scroll the cursor to “Verif Counts”.
2. Press ↵ to continue.

Step 2: Print or view the verified counts

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

- To print the Verified Counts to the printer, press ↵ when the cursor flashes beside “Printer”.
- To print the Verified Counts to the screen, press ▽ then ↵ when the cursor flashes beside “Screen”.

Step 3: Select node and loop number

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

1. Select the node number by using △ and ▽ to scroll through the numbers.
2. Select the node by pressing ↵.
3. Select the loop number by using △ and ▽ to scroll the cursor through the loops.
4. Select the loop by pressing ↵.

Step 4: If the display shows...

```
No verified devices
found.
```

...the display returns to the Reports Menu.

OR

If the display shows...

```
Nd1 Lp 0 Addr 1.6
Input Circuit
Verification
 count: 0
```

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

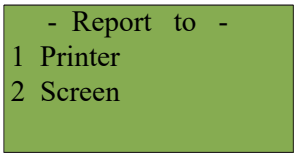
5.1.5 Maintenance Report

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

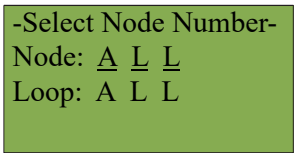
1. Use △ and ▽ to scroll the cursor to “Maint Report”.
2. Press ↵ to continue.

Step 2: Print or view the maintenance report



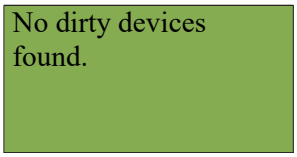
- To print the Maintenance Report to the printer, press ↵ when the cursor flashes beside “Printer”.
- To print the Maintenance Report to the screen, press ▽ then ↵ when the cursor flashes beside “Screen”.

Step 3: Select node and loop number



1. Select the node number by using △ and ▽ to scroll through the numbers.
2. Select the node by pressing ↵.
3. Select the loop number by using △ and ▽ to scroll the cursor through the loops.
4. Select the loop by pressing ↵.

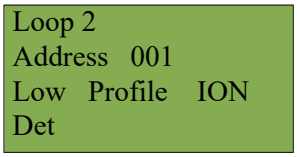
Step 4: If the screen shows...



...the display returns to the Reports Menu.

OR

If the display shows...

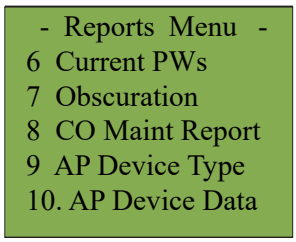


- Press and hold ? to view the details.
- Use △ and ▽ to scroll the cursor through the records.
- Press X to exit to the Reports Menu.

5.1.6 Current PWs

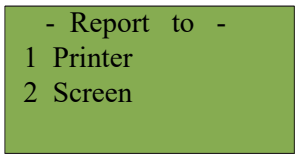
This option reports on the pulse width current levels of addressable devices.

Step 1: Select Current PWs



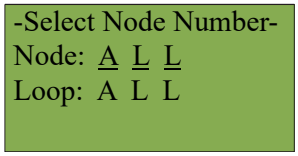
1. Use △ and ▽ to scroll the cursor to “Current PWs”.
2. Press ↵ to select the Current PWs submenu.

Step 2: Print or view current pulse widths

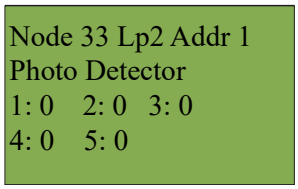


- To print the current pulse widths report to the printer, press ↵ when the cursor flashes beside “Printer”. Go to Step 3.
- To view the current pulse widths log on the screen, press ▽ then ↵ to select “Screen”. Go to Step 3.

Step 3: Select node and loop number



1. Select the node number by using △ and ▽ to scroll through the numbers.
2. Select the node by pressing ↵.
3. Select the loop number by using △ and ▽ to scroll the cursor through the loops.
4. Select the loop by pressing ↵.



- Use △ and ▽ to scroll the cursor through the current pulse widths, if viewing on the screen.
- Press X to exit to the Reports Menu.

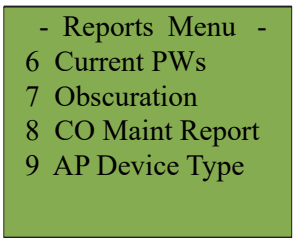
An example of the information displayed on screen is shown on the left.

The first and second line pinpoint the exact device.

5.1.7 Obscuration

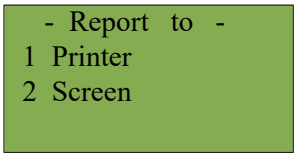
This option reports on the obscuration levels of the smoke detectors.

Step 1: Select Obscuration



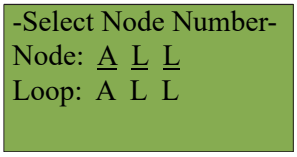
1. Use ▲ and ▼ to scroll the cursor to "Obscuration".
2. Press ↵ to select the Obscuration submenu.

Step 2: Print or view obscuration

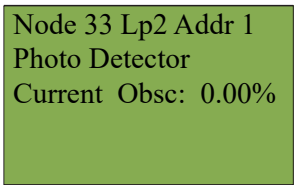


- To print the Obscuration report to the printer, press ↵ when the cursor flashes beside "Printer". Go to Step 3.
- To view the Obscuration log on the screen, press ▼ then ↵ to select "Screen". Go to Step 3.

Step 3: Select node and loop number



1. Select the node number by using ▲ and ▼ to scroll through the numbers.
2. Select the node by pressing ↵.
3. Select the loop number by using ▲ and ▼ to scroll the cursor through the loops.
4. Select the loop by pressing ↵.



- Use ▲ and ▼ to scroll the cursor through the Obscuration, if viewing on the screen.
- Press X to exit to the Reports Menu.

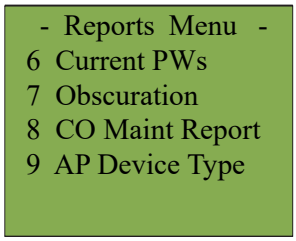
An example of the information displayed on screen is shown on the left.

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

5.1.8 CO Maint Report

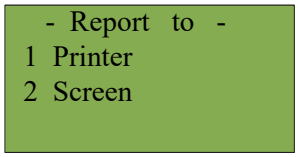
This report specifies which CO devices need to be replaced.

Step 1: Select CO Maint



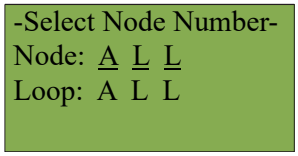
1. Use ▲ and ▼ to scroll the cursor to “CO Maint”.
2. Press ↵ to select the CO Maint Report submenu.

Step 2: Print or view CO maintenance report

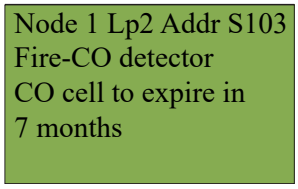


- To print the CO report to the printer, press ↵ when the cursor flashes beside “Printer”. Go to Step 3.
- To view the CO report on the screen, press ▼ then ↵ to select “Screen”. Go to Step 3.

Step 3: Select node and loop number



1. Select the node number by using ▲ and ▼ to scroll through the numbers.
2. Select the node by pressing ↵.
3. Select the loop number by using ▲ and ▼ to scroll the cursor through the loops.
4. Select the loop by pressing ↵.



- Use ▲ and ▼ to scroll the cursor through the CO report, if viewing on the screen.
- Press X to exit to the Reports Menu.

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

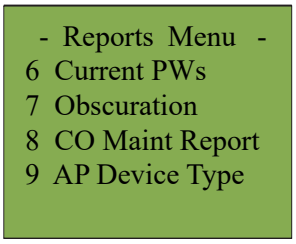
The first and second line pinpoint the exact CO device which needs to be replaced. Any device with a CO cell that will expire in 18 months or less appears in the report.

If there are no CO devices, then the display shows “No CO Devices to report”.

5.1.9 AP Device Type

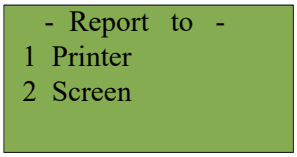
This option reports on the Advanced Protocol device type.

Step 1: Select AP Device Type



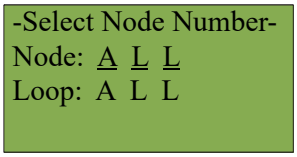
1. Use ▲ and ▼ to scroll the cursor to “AP Device Type”.
2. Press ↵ to continue.

Step 2: Print or view AP Device Type



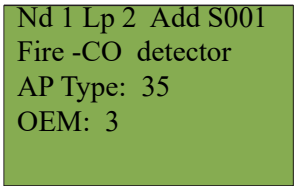
- To print the AP Device Type report to the printer, press ↵ when the cursor flashes beside “Printer”. Go to Step 3.
- To view the AP Device Type report on the screen, press ▼ then ↵ to select “Screen”. Go to Step 3.

Step 3: Select node and loop number



1. Select a node number by using ▲ and ▼ to scroll through the numbers.
2. Select the node by pressing ↵.
3. Select the loop number by pressing ↵.
4. Use ▲ and ▼ to scroll the cursor through the AP devices, if viewing on the screen.

Press X to exit to the Reports Menu.



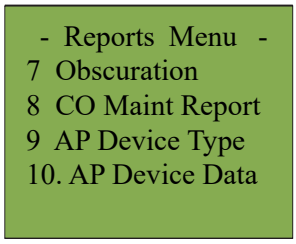
An example of the information displayed on screen is shown on the left.

The first line identifies the AP device, the second the type of detector, the third specifies the device type ID, and the fourth line specifies the OEM company.

5.1.10 AP Device Data

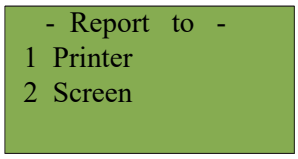
This option reports on the Advanced Protocol device information. Generate this report when requested by technical support.

Step 1: Select AP Device Data



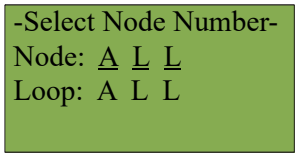
1. Use ▲ and ▼ to scroll the cursor to “AP Device Data”.
2. Press ↵ to continue.

Step 2: Print or view AP Device Data



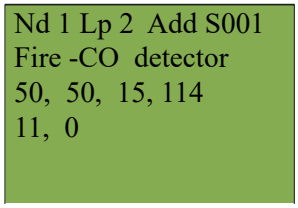
- To print the AP Device Data report to the printer, press ↵ when the cursor flashes beside “Printer”. Go to Step 3.
- To view the AP Device Data report on the screen, press ▼ then ↵ to select “Screen”. Go to Step 3.

Step 3: Select node and loop number



1. Select a node number by using ▲ and ▼ to scroll through the numbers.
2. Select the node by pressing ↵.
3. Select the loop number by pressing ↵.
4. Use ▲ and ▼ to scroll the cursor through the AP devices, if viewing on the screen.

Press X to exit to the Reports Menu.



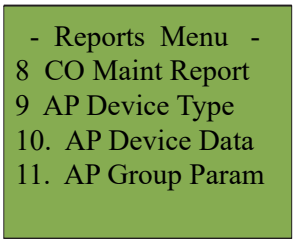
An example of the information displayed on screen is shown on the left.

The first line identifies the AP device, and the second line identifies the type of detector. The third and fourth lines are the analog values retrieved from the sub-addresses in the device. For most devices, the usual value for the first number on the third line is 50, which indicates that the device is in a normal state.

5.1.11 AP Group Param

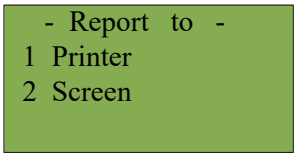
This option reports on the output group configuration.

Step 1: Select AP Group Param



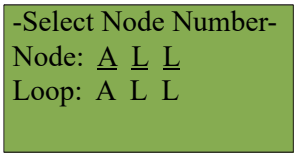
1. Use ▲ and ▼ to scroll the cursor to “AP Group Param”.
2. Press ↵ to continue.

Step 2: Print or view AP Group Param



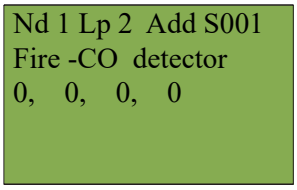
- To print the AP Group Param report to the printer, press ↵ when the cursor flashes beside “Printer”. Go to Step 3.
- To view the AP Group Param report on the screen, press ▼ then ↵ to select “Screen”. Go to Step 3.

Step 3: Select node and loop number



1. Select a node number by using ▲ and ▼ to scroll through the numbers.
2. Select the node by pressing ↵.
3. Select the loop number by pressing ↵.
4. Use ▲ and ▼ to scroll the cursor through the AP Group, if viewing on the screen.

Press X to exit to the Reports Menu.



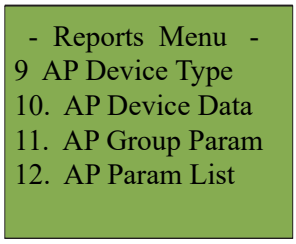
An example of the information displayed on screen is shown on the left.

The first line identifies the AP device, and the second line identifies the type of detector. The third line identifies the output group numbers for every device.

5.1.12 AP Param List

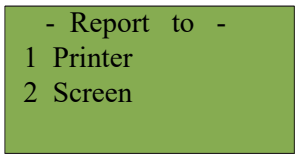
This option reports on the Advanced Protocol device parameter information. Generate this report when requested by technical support.

Step 1: Select AP Param List



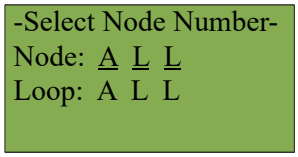
1. Use ▲ and ▼ to scroll the cursor to “AP Param List”.
2. Press ↵ to continue.

Step 2: Print or view AP Param List



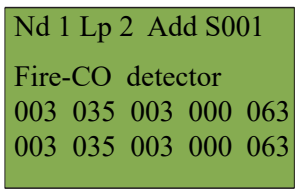
- To print the AP Param List report to the printer, press ↵ when the cursor flashes beside “Printer”. Go to Step 3.
- To view the AP Param List report on the screen, press ▼ then ↵ to select “Screen”. Go to Step 3.

Step 3: Select node and loop number



1. Select a node number by using ▲ and ▼ to scroll through the numbers.
2. Select the node by pressing ↵.
3. Select the loop number by pressing ↵.
4. Use ▲ and ▼ to scroll the cursor through the AP devices, if viewing on the screen.

Press X to exit to the Reports Menu.



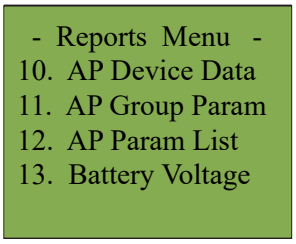
An example of the information displayed on screen is shown on the left.

The first line identifies the AP device, and the second line identifies the type of detector. The third and fourth lines are the internal non-volatile parameters of the devices. This information is useful for technical support.

5.1.13 Battery Voltage

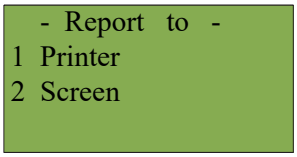
This option reports on the voltage level of the battery.

Step 1: Select Battery Voltage



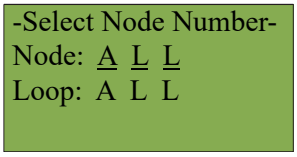
1. Use ▲ and ▼ to scroll the cursor to “Battery Voltage”.
2. Press ↵ to continue.

Step 2: Print or view the battery voltage report

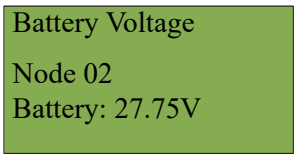


- To print the battery voltage report to the printer, press ↵ when the cursor flashes beside “Printer”.
- To view the battery voltage on the screen, press ▼ then ↵ when the cursor flashes beside “Screen”.

Step 3: Select node and loop number



1. Select the node number by using ▲ and ▼ to scroll through the numbers.
2. Select the node by pressing ↵.
3. Select the loop number by using ▲ and ▼ to scroll the cursor through the loops.
4. Select the loop by pressing ↵.



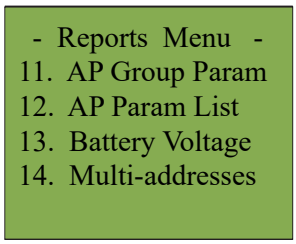
An example of the information displayed on screen is shown on the left.

- Use ▲ and ▼ to see the report for other nodes if you selected **ALL**.

5.1.14 Multi-Addresses

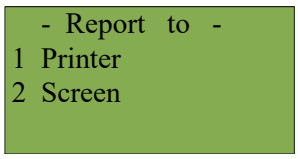
This option reports devices that have the same address or the same serial number.

Step 1: Select Multi-addresses



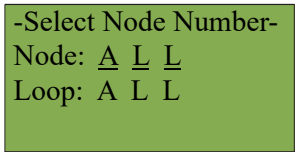
1. Use ▲ and ▼ to scroll the cursor to “Multi-addresses”.
2. Press ↵ to continue.

Step 2: Print or view the multi-addresses report



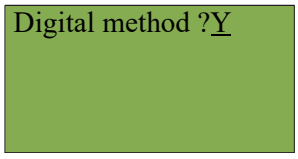
- To print the multi-addresses report to the printer, press ↵ when the cursor flashes beside “Printer”.
- To view the report on the screen, press ▼ then ↵ when the cursor flashes beside “Screen”.

Step 3: Select node and loop number

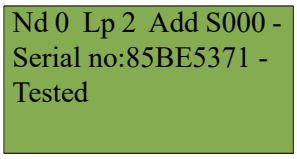


1. Select the node number by using ▲ and ▼ to scroll through the numbers.
2. Select the node by pressing ↵.
3. Select the loop number by using ▲ and ▼ to scroll the cursor through the loops.
4. Select the loop by pressing ↵.

Step 4: Select method



- Select “yes” to report duplicate serial numbers.
- Select “no” to report duplicate addresses as set by the switches on the devices.



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

Press △ and ▽ to scroll through the devices.

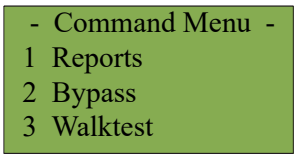
If you selected “yes” in step 4, the message “*** Multiple dev address” appears beside for the devices with the same serial number.

If you selected “no” in step 4, the message “*** Multiple dev address” appears beside for the address that is shared by more than one device.

5.2 2. Bypass Menu

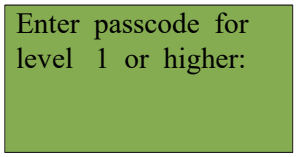
Use the Bypass Menu when you want to bypass or unbypass devices, hardware circuits, outputs such as relays and signals, or nodes.

Step 1: Select the Bypass Menu



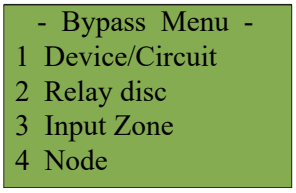
1. Use △ and ▽ to scroll the cursor to “Bypass”.
2. Press ↵ to select the Bypass Menu.

Step 2: Enter your passcode (if required)



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

Step 3: Select the option you want to view



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

Press X 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 Device/Circuit

```
 - Bypass Menu -
1 Device/Circuit
2 Relay Disc
3 Input Zone
```

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 device

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

1. Use △ and ▽ to select the node, loop and device number.
2. Enter the node number, then press ↵.
3. Enter the loop number, then press ↵.
4. Enter the device number by pressing ◁ and ▷ as needed to move the cursor left and right. Use the up △ and down ▽ arrows to select the digit.
5. Press ↵ to continue.

Step 4: Bypass the device or circuit

```
1ST FLOOR SMOKE
N1 L2 S100 is
unbypassed.
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 Relay Disconnect

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

Step 1: Select Relay Disconnect

```
- Bypass Menu -
1 Device /Circuit
2 Relay Disc
3 Input Zone
```

1. Use △ and ▽ to scroll the cursor to "Relay Disc".
2. Press ↵ to continue.

Step 2: Select "yes" or "no"

```
Common aux relays
currently connected
Disconnect? Y
```

The system asks whether or not you want to bypass 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 either shows 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.

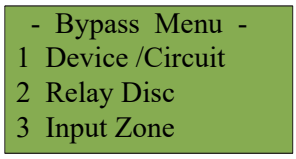
5.2.4 Input Zone Bypass

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.

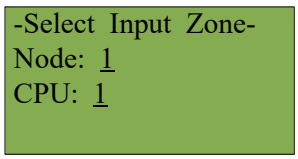
To unbypass the input zone, follow the same procedures for input zone bypass.

Step 1: Select Input Zone Bypass



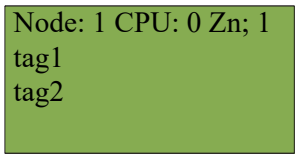
1. Use ▲ and ▼ to scroll to “Input Zone”.
2. Press ↵ to continue.

Step 2: Select a node and CPU



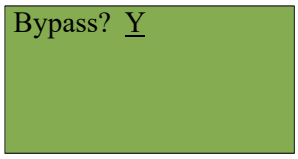
1. Use ▲ and ▼ to select the node and CPU number.
2. Press ↵ to continue.

Step 3: Select a zone



1. Use ▲ and ▼ to select the zone.
2. Press ↵ to continue.

Step 4: Bypass the input zone



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

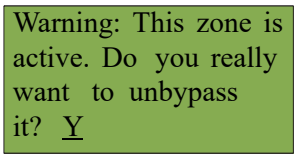
1. Use ▲ and ▼ to select “yes” or “no”.
2. Press ↵ to continue.

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

- **If you selected “yes”**, the display either shows the message “Input Zone bypassed” or “Input 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 Unbypassing an active zone

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



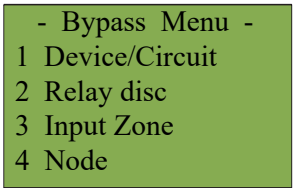
If you select “yes” to unbypass this zone, the system immediately goes into alarm. To avoid this problem, press the System Reset button before unbypassing the zone.

5.2.6 Node Bypass

Use this option if you want to bypass the incoming and outgoing commands and events of a node. Usually this is done during inspections.

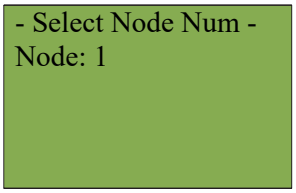
To unbypass the node, follow the same procedures for node bypass.

Step 1: Select Node Bypass



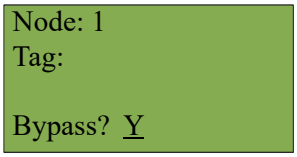
1. Use ▲ and ▼ to scroll to “Node”.
2. Press ↵ to continue.

Step 2: Select the node



1. Use ▲ and ▼ to select a node.
2. Press ↵ to continue.

Step 3: Bypass the node



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 either shows 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.

5.3 3. Walk Test Menu

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

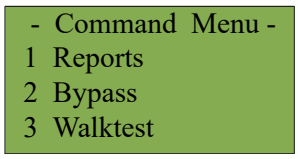
The options available in the Walk Test Menu depend on how the panel was configured. The FleX-Net™ system supports the ability to define walk test areas in the configuration. If walk test areas are defined, then the panel shows the assisted walk test.

If no walk test areas are defined on a multi-node system, then the panel shows an error when the assisted walk test is selected.

If no walk test areas are defined on a single node system, then the panel does not show the assisted walk test; instead it shows options for a one man audible test or a one man silent test of all devices.

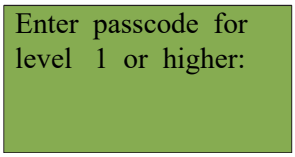
Note: Walk test records that are viewed on the screen are stored in the event log.

Step 1: Select the Walk Test Menu



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

Note: You also can access the walk test menu directly from a switch. This switch must be configured using the Configurator.

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

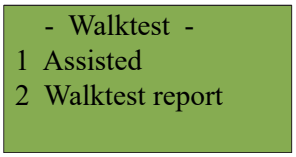
5.3.1 Assisted Walk Test

The assisted walk test must be configured using the Configurator. The options shown in Step 2 below are the walk test areas defined using the Configurator.

Note: The assisted walk test is the only option available on a multi-node system. If no walk test areas are defined in the Configurator on a multi-node system, then an error occurs when the assisted walk test is selected.

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

Step 1: Select the assisted walk test option



1. Use ▲ and ▼ to scroll the cursor through the menu.
2. Press ↵ to select the “Assisted” option.

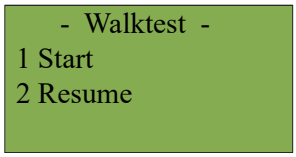
Press X to exit and return to the Command Menu.

Step 2: Select the walk test area

1. Use ▲ and ▼ to scroll the cursor through the menu.
2. Press ↵ to select a walk test area.

Press X to exit and return to the Command Menu.

Step 3: Start the walk test



Start or resume the test for device inspection.

1. Select “Start” to begin a walk test.
2. Select “Resume” to continue the walk test.

Press X to end the walk test at any time.

Active queue

The queue of active devices appears. At the start of the Walk Test, the queue is empty because no devices have been tested.

Step 4: Tested, untested, active and trouble queues

1. Press ◀ and ▶ to see the queues of tested devices, untested devices, active devices (if any), and troubles (if any).

   The untested queue is shown here. There are 20 untested devices and the first untested device is shown.

Step 5: Active queue

When a device is activated, the active queue appears.

Apr 9,2020 11:44:48
STAIR 2 EXIT WEST
2nd Floor
ACTIVE 002 Of 002

The queue LED corresponding to the process type of the device blinks when a device is activated.

1. Press △ and ▽ to cycle through the active devices.

Step 6: Active device screen

1. Press and hold ? for more information about the active device.

Input module
N 1 L 2 Adr124
A: 1 (ALM) T: 0
ACTIVE 001 Of 001

N = Node

L = Loop

Adr = Address

A = total number of activations for the device, and the process type of the device (ALM for alarm, SUP for supervisory)

T = total number of trouble events for the device

Step 7: Trouble queue

If a trouble occurs during the walk test, the trouble queue appears on the screen and the trouble queue LED blinks.

Apr 9,2020 11:44:48
STAIR 2 EXIT WEST
2nd Floor
TROUBLE 002 Of 002

1. Press △ and ▽ to cycle through the devices in trouble.

Step 8: Trouble device screen

1. Press and hold ? for more information about the device in trouble.

Input module
N 1 L 2 Adr124
A: 1 (ALM) T: 1
TROUBLE 001 Of 001

N = Node

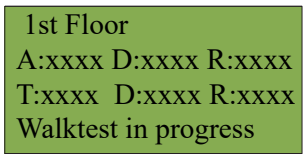
L = Loop

Adr = Address

A = total number of activations for the device, and the process type of the device (ALM for alarm, SUP for supervisory)

T = total number of trouble events for the device

Step 9: View information



At any time, press M to see information about the selected walk test configuration.

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

5.3.2 One Man Audible Test (Single Node System)

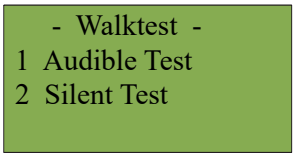
During this test, alarm activation of any input device activates all signals for one half second. Trouble activation on any input device activates all signals continuously for one second. If audio amplifier is configured for alarm and trouble events, it sounds words “Alarm” and “Trouble” respectively.

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

Step 1: Select One Man Test

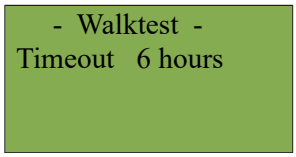
1. Use △ and ▽ to scroll the cursor to “One Man”.
2. Press ↵ when the cursor flashes beside “One Man” to select the one man walk test.

Step 2: Select Audible Test



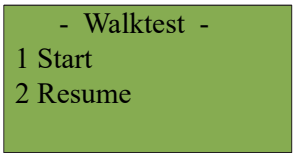
1. Use △ and ▽ to scroll the cursor and select “Audible Test”.
2. Press ↵ when the cursor flashes beside “Audible Test” to select the audible test.

Step 3: Select duration of the walk test



1. The default duration of the 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



Start or resume the 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.

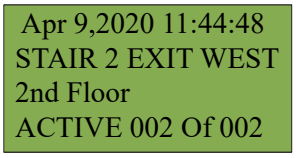
Press X to end the walk test at any time.

Step 5: Tested, untested, active and trouble queues

1. Press and to see the queues of tested devices, untested devices, active devices (if any), and troubles (if any).

   The untested queue is shown here. There are 20 untested devices and the first untested device is shown.

Step 6: Active queue

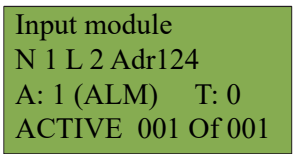


When a device is activated, the active queue appears.

The queue LED corresponding to the process type of the device blinks when a device is activated.

1. Press and to cycle through the active devices.

Step 7: Active device screen



1. Press and hold ? for more information about the active device.

N = Node

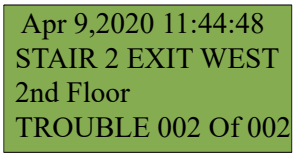
L = Loop

Adr = Address

A = total number of activations for the device, and the process type of the device (ALM for alarm, SUP for supervisory)

T = total number of trouble events for the device

Step 8: Trouble queue



If a trouble occurs during the Walk Test, the trouble queue appears on the screen and the trouble queue LED blinks.

1. Press and to cycle through the devices in trouble.

Step 9: Trouble device screen

1. Press and hold ? for more information about the device in trouble.

```
Input module
N 1 L 2 Adr124
A: 1 (ALM)     T: 1
TROUBLE 001 Of 001
```

N = Node

L = Loop

Adr = Address

A = total number of activations for the device, and the process type of the device (ALM for alarm, SUP for supervisory)

T = total number of trouble events for the device

Step 10: View information

At any time, press M to see information about the selected walk test configuration.

```
OneMan
A:xxxx D:xxxx R:xxxx
T:xxxx  D:xxxx R:xxxx
Walktest in progress
```

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

5.3.3 One Man Silent Test (Single Node System)

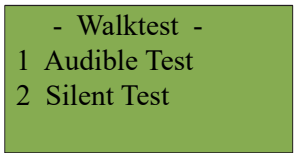
During this test, alarm activation of any input device activates the buzzer once.

Step 1: Select One Man Test

```
   - Walktest -
1  One Man
2  Walk Test Report
```

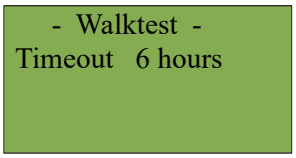
1. Use △ and ▽ to scroll the cursor to “One Man”.
2. Press ↵ when the cursor flashes beside “One Man” to select the One Man Walk Test.

Step 2: Select Silent Test



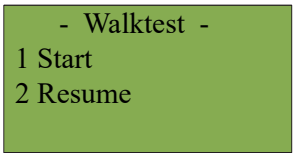
1. Use ▲ and ▼ to scroll the cursor and select "Silent Test".
2. Press ↵ when the cursor flashes beside "Silent Test" to select the silent test.

Step 3: Select duration of the walk test



1. The default duration of the 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



Start or resume the 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.

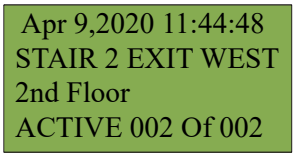
Press X to end the walk test at any time.

Step 5: Tested, untested, active and trouble queues

1. Press ◀ and ▶ to see the queues of tested devices, untested devices, active devices (if any), and troubles (if any).

   The untested queue is shown here. There are 20 untested devices and the first untested device is shown.

Step 6: Active queue



When a device is activated, the active queue appears.

The queue LED corresponding to the process type of the device blinks when a device is activated.

1. Press ▲ and ▼ to cycle through the active devices.

Step 7: Active device screen

1. Press and hold ? for more information about the active device.

Input module
N 1 L 2 Adr124
A: 1 (ALM) T: 0
ACTIVE 001 Of 001

N = Node

L = Loop

Adr = Address

A = total number of activations for the device, and the process type of the device (ALM for alarm, SUP for supervisory)

T = total number of trouble events for the device

Step 8: Trouble queue

If a trouble occurs during the walk test, the trouble queue appears on the screen and the trouble queue LED blinks.

Apr 9,2020 11:44:48
STAIR 2 EXIT WEST
2nd Floor
TROUBLE 002 Of 002

1. Press △ and ▽ to cycle through the devices in trouble.

Step 9: Trouble device screen

1. Press and hold ? for more information about the device in trouble.

Input module
N 1 L 2 Adr124
A: 1 (ALM) T: 1
TROUBLE 001 Of 001

N = Node

L = Loop

Adr = Address

A = total number of activations for the device, and the process type of the device (ALM for alarm, SUP for supervisory)

T = total number of trouble events for the device

Step 10: View information

At any time, press M to see information about the selected walk test Configuration.

1st Floor
A:xxxx D:xxxx R:xxxx
T:xxxx D:xxxx R:xxxx
Walktest in progress

A = number of walk test alarm events

T = number of walk test trouble events

D = number of duplicate alarm and trouble events

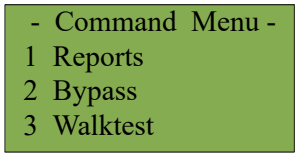
R = number of remaining events from the walk test list

5.3.4 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.

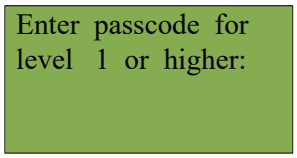
5.3.5 Walk Test Screen Report

Step 1: Select the Walk Test Menu



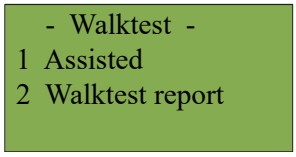
1. Use ▲ and ▼ to scroll the cursor to "Walktest".
2. Press ↵ to select the Walk Test Menu.

Step 2: Enter your passcode (if required)



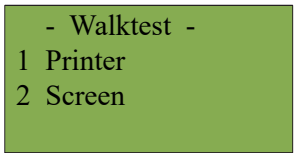
Enter your passcode. See page 16 for instructions on entering passcodes.

Step 3: Select the walk test report



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

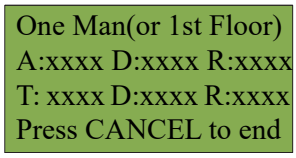
Step 4: Select the screen option



1. Use ▲ and ▼ to scroll the cursor through the menu.
2. Press ↵ to select an "Screen" option.
3. Press X to exit and return to the Command Menu.

Step 5: Walk test report on screen

Use ▲ and ▼ to scroll the cursor through the walk test log.



A = number of walk test alarm events

T = number of walk test trouble events

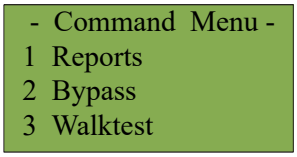
D = number of duplicate alarm and trouble events

R = number of remaining events from the walk test list

Press X to exit and return to the Command Menu.

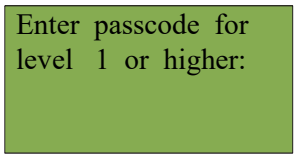
5.3.6 Walk Test Printer Report

Step 1: Select the Walk Test Menu



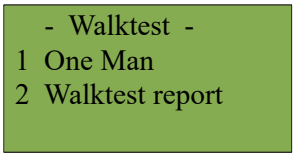
1. Use ▲ and ▼ to scroll the cursor to "Walktest".
2. Press ↵ to select the Walk Test Menu.

Step 2: Enter your passcode (if required)



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

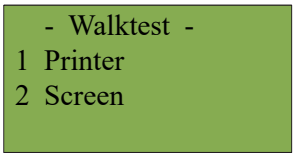
Step 3: Select the walk test Report



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

Press X to exit and return to the Command Menu.

Step 4: Select the printer option



1. Use ▲ and ▼ to scroll the cursor through the menu to "Printer".
2. Press ↵ to select "Printer".

Press X to exit and return to the Command Menu.

The following is an example of a printed walk test report:

```
------------------- Walktest Report - Feb 19,2019  9:08:20 -------------------
------------------------------ Job Name: BOTR ------------------------------
------------------------------ Job version: 3.0 ------------------------------
------------------ Firmware version: 12.2.13 (Node 1, CPU 0) ----------------
1 of All
A:   4 D:   2 R:   0
T:   0 D:   0 R:   4
=======================================
N 1 L 2 Adr150
A:  1 T:  0
Pull Station        Node 1 Loop 2
Input Module
Feb 19, 2019 09:06:00
=======================================
N 2 L 0 Adr 1.0
A:  2 T:  0
Alarm               Node 2 Conventional
Input Circuit
Feb 19, 2019 09:06:34
=======================================
N 3 L 0 Adr 1.0
A:  2 T:  0
Alarm               Node 3 Conventional
Input Circuit
Feb 19, 2019 09:06:49
=======================================
N 4 L 2 Adr150
A:  1 T:  0
Pull Station        Node 4 Loop 2
Input Module
Feb 19, 2019 09:06:20
=======================================
------------------------------ End of Report -------------------------------
```

5.4 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.

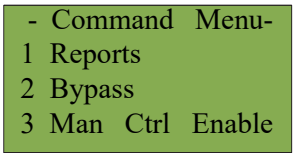
This feature does not change after a system reset.

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 Enable Required option in the Command Menu or turning the key switch allows you to activate and deactivate this feature.

5.4.1 Selecting Manual Control Enable from the Menu

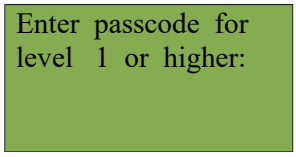
To select the Enable Required option, you must be in the Command Menu. To enter the Command Menu, press [M] when the display is in normal mode.

Step 1: Select Manual Enable



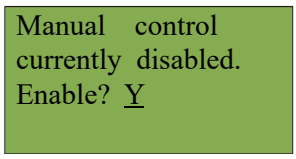
1. Use ▲ and ▼ to scroll the cursor to “Man Ctrl Enable”.
2. Press [↵] to continue.

Step 2: Enter your passcode



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

Step 3: Enable manual control



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.

5.4.2 Selecting Manual Control Enable using a Key Switch

You can set up the FleX-Net™ 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.

5.5 4. 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 -
3 Walktest
4 Day/night mode
5 Set time
```

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 day/night
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.

5.6 5. Set Time

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

Step 1: Select Set Time

```
- Command Menu -
4 Day/Night mode
5 Set Time
6 Clear Event Log
```

1. Use ▲ and ▼ to scroll the cursor to “Set Time”.
2. 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
```

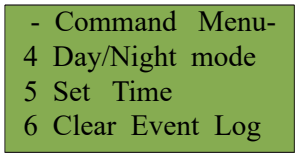
- Use ▲ and ▼ to change the time.
- Use ◀ and ▶ to move from hours, to minutes, to AM/PM.
- When you are finished, press ↵ to return to the Command Menu.

The system displays the message “Time updated”, and then returns to the Command Menu.

5.7 6. Clear Event Log

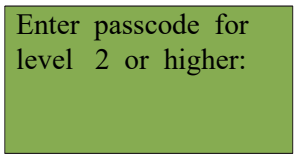
Select this option if you want to clear the alarm log, event log, or all the logs.

Step 1: Select Clear Event Log



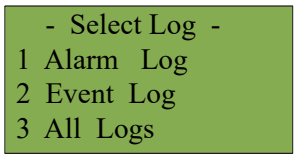
1. Use ▲ and ▼ to scroll the cursor to “Clear Event Log”.
2. Press ↵ to continue.

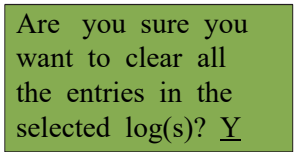
Step 2: Enter your passcode (if required)



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

Step 3: Select the log to clear





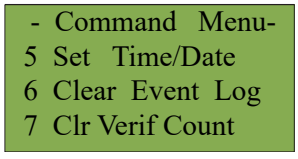
1. Use ▲ and ▼ to select the log you want to clear.
2. Use ◀ and ▶ to select “yes” or “no”.
3. Press ↵ to continue.

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

5.8 7. Clear Verification Counter

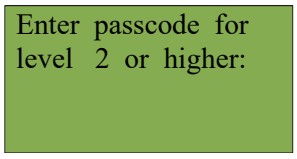
Select this option if you want to clear the verification counter.

Step 1: Select Clear Verification Counter



1. Use ▲ and ▼ to scroll the cursor to “Clear Verification Counter”.
2. Press ↵ to continue.

Step 2: Enter your passcode (if required)



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.

5.9 8. Pairing Sound B

When an addressable sounder base is added to the job in the Configurator, it is assigned an address based on the address of the AP sensor it is connected to. However, the physical sounder base has a default address which might not match the configured address. This mismatch generates a "mismatched address" or "unconfigured device" error on the panel. This error usually occurs on new installations, or in situations where the sounder bases have been replaced.

This option synchronizes the internal address of the sounder base with the address of the AP sensor it is connected to. This command applies only to the node that it is activated from.

Step 1: Select Pairing Sound B

- Reports Menu -
6 Current Levels
7. Clear Verif Count
8. Pairing Sound B

1. Use ▲ and ▼ to scroll the cursor to "Pairing Sound B".
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"

Sounder addr pairing on current node:Y

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

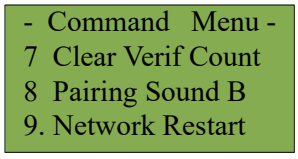
At this point the display varies, depending on your choice:

- **If you selected "yes"**, the display returns to the Command Menu. The system synchronizes the internal address of the sounder bases on the node that the command was activated from.
- **If you selected "no"**, the display shows the message "Operation cancelled", then it returns to the Command Menu.

5.10 9. Network Restart

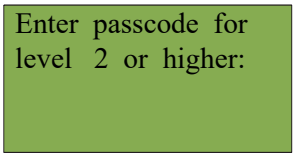
Use the Network Restart after downloading the FleX-Net™ configuration.

Step 1: Select Network Restart



1. Use ▲ and ▼ to scroll the cursor to “Network Restart”.
2. Press ↵ to continue.

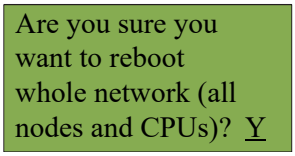
Step 2: Enter your passcode (if required)



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

Default is Level 2 passcode required.

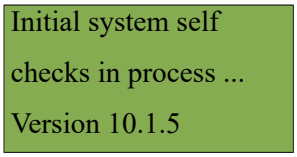
Step 3: Select “yes” or “no”



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

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

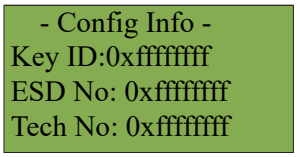
- **If you selected “no”**, the display shows the message “Operation cancelled”, then it returns to the Command Menu.
- **If you selected “yes”**, the system restarts and the display shows:



5.11 10. Configuration Info

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

The FleX-Net™ display shows the following while in Configuration Info mode:



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 IP information for this node (the IP address, the subnet mask, and the default gateway).

5.12 11. Choose Configuration

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

Step 1: Select Choose Configuration

```
- Command Menu -
9. Network Restart
10. Config Info
11. Choose Config
```

1. Use △ and ▽ to scroll the cursor to “Choose Config”.
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™ display shows the following while in Choose Config mode:

Step 3: Select the configuration version to make active

```
- Config Info -
V1: Job Name
V2: Job Name Rev 1
V3: Job Name Rev 2
```

1. Use △ and ▽ to select the which version of configuration (up to 3 versions) 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:

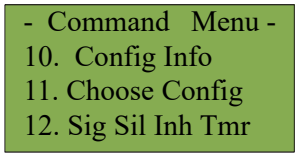
- If you select “no”, the display shows the message “Operation Cancelled”, then it returns to the Command Menu.
- If you select “yes”, the system restarts and the display shows:

```
System
Configuration
in process ...
```

5.13 12. Signal Silence Inhibit Timer

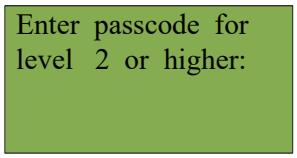
Select this option to specify the time during which you cannot silence the alarm or reset the system.

Step 1: Select Signal Silence Inhibit Timer



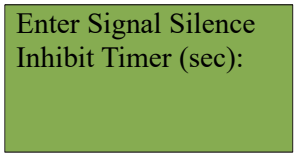
1. Use ▲ and ▼ to scroll the cursor to “Sig Sil Inh Tmr”.
2. Press ↵ to continue.

Step 2: Enter your passcode (if required)



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

Step 3: Set the signal silence inhibit timer



1. Use ▲ and ▼ to select the number of seconds. The range is from 0 to 180 seconds in increments of 10 seconds.

   To disable the signal silence inhibit timer, set it to 0.
2. When you are finished, press ↵ to return to the Command Menu.

The system returns to the Command Menu.

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

Note: Warden Page does not work in the FX-MNS-6000 system.

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.

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