



# 6004 Addressable Fire Alarm Control and Indicating Equipment

Revision 3.0 Firmware

# USER MANUAL



## Contents

1. CONTROLS AND INDICATORS .....	1
2. ACCESS LEVELS .....	4
2.1. Access Level 1 .....	4
2.2. Access Level 2 .....	4
2.3. Access Level 3 .....	5
2.4. Access Level 4 .....	5
3. CONDITIONS .....	6
3.1. Quiescent Condition .....	6
3.2. Alarm Condition .....	6
3.3. Actions During the Alarm Condition .....	6
3.4. Fault Condition .....	7
3.5. Actions During the Fault Condition .....	7
3.6. Disabled Condition .....	8
3.7. Test Condition .....	9
4. TROUBLE SHOOTING GUIDE .....	11
4.1. General Fault Indicator .....	11
5. GLOSSARY AND REFERENCES .....	12

6004 addressable control and indicating equipment forms the central part of a fire detection and alarm system. 6004 is available with 1 or 2 addressable loops and can support up to 250 addressable devices. The control and indicating equipment is easy to install and commission. A central microprocessor delivers reliable operation and requires minimum maintenance.

6004 control and indicating equipment are compatible with Numens addressable detectors and other devices, such as manual call points and audio/visual alarm devices. They are suitable for small and medium-sized buildings.

This Manual provides users with instructions to operate the 6004 control and indicating equipment using revision 3.0 operating firmware.

### Website

For more information, including product datasheets and other support material, please view our website at [www.numens.com](http://www.numens.com).



Building Name \_\_\_\_\_

Building Address \_\_\_\_\_

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Installation Company \_\_\_\_\_

Installation Company Contact \_\_\_\_\_

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Date Installed \_\_\_\_\_

Service Company \_\_\_\_\_

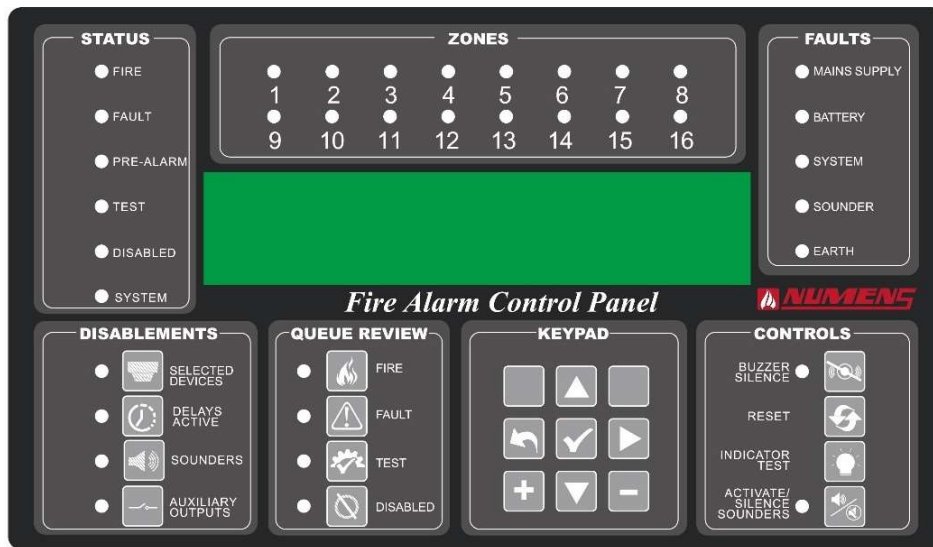
Service Company Contact \_\_\_\_\_

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# 1. CONTROLS AND INDICATORS



## STATUS

### **FIRE**

Indicates the Alarm Condition. The LED will flash with un-acknowledged alarms and be on steady when acknowledged. (Alarm zone information will be displayed on the ZONE indicators. Alarm device information will be displayed on the LCD.)

### **FAULT**

Indicates the Fault Condition. The LED will flash with un-acknowledged faults and be on steady when acknowledged. (Fault information will be displayed on the LCD, and depending on the source of the fault, in the FAULTS area of the control and indicating equipment.)

### **PRE-ALARM**

Indicates a device is reaching the alarm threshold level. The LED will flash with un-acknowledged alarms and be on steady when acknowledged. (Pre-alarm information will be displayed on the LCD.)

### **TEST**

Indicates the Test Condition. The LED illuminates during the Test Condition.

### **DISABLE**

Indicates at least one device is disabled.

### **SYSTEM**

Indicates the control and indicating equipment is active. The LED will repeatedly flash when the control and indicating equipment is in Installation Mode. The LED will illuminate when the equipment is in Active mode.

## ZONES

### **ZONES**

Indicates the Alarm Condition within a specific detection zone.

## LCD

Displays the status of the control and indicating equipment and connected devices.

**FAULTS**

<b>MAINS SUPPLY</b>	Indicates the mains supply is unavailable. The LED will flash with un-acknowledged mains supply faults and be on steady when acknowledged.
<b>BATTERY</b>	Indicates the standby battery supply or battery charger is faulty. The LED will flash with un-acknowledged battery faults and be on steady when acknowledged.
<b>SYSTEM</b>	Indicates a fault in the central processing unit. The LED will illuminate when a processing fault or memory fault is detected.
<b>SOUNDER</b>	Indicates when either an alarm zone circuit fault or an addressable audio/visual alarm device fault is detected. This includes an open- or short-circuit in the transmission path. The LED will flash with un-acknowledged alarm faults and be on steady when acknowledged.
<b>EARTH</b>	Indicates an earth fault is detected in the alarm zone transmission path wiring. The LED will flash with un-acknowledged earth faults and be on steady when acknowledged.

**DISABLEMENTS**

<b>SELECTED DEVICES</b>	Selects specific input devices (detectors, manual call points, input/output modules) for disablement. Used in conjunction with KEYPAD and LCD. The indicator is active when disablements are active.
<b>DELAYS ACTIVE</b>	Disables and enables delays of configured initiating devices and input/output devices. When the indicator is on, the delay is active. Pressing the DELAYS ACTIVE button over-rides the delays and causes immediate actions.
<b>SOUNDERS</b>	Disables and enables alarm output devices. When the indicator is active, the alarm devices are disabled.
<b>AUXILIARY OUTPUTS</b>	Disables and enables on-board relay outputs, addressable output module relays, and detection zone output relays. When the indicator is active, the output devices are disabled.

**QUEUE REVIEW**

<b>FIRE</b>	LED will flash if more than one input device is reporting a fire. Pressing the button will step through the queue of fire events. Once the queue has been reviewed, the LED will be on steady. If a new event occurs, the LED will begin to flash. An event in the queue will be displayed for 20 s, after which time the LCD will display the first alarm event.
<b>FAULT</b>	LED will flash if more than one input device is reporting a fault, or if a fire signal is also present when a fault occurs. Pressing the button will step through the queue of fault events. Once the queue has been reviewed, the LED will be on steady. If a new event occurs, the LED will begin to flash. An event in the queue will be displayed for 20 s. After this time, the LCD will display the first fault event, or the fire event if a Fire Condition exists.
<b>TEST</b>	LED is on during the Test Condition. Pressing the TEST button will display which detection zones and which alarm zones are in Test. If the LCD cannot display all zones, pressing the TEST button again will display the next page of results. A test event will be displayed for 15 s, after which time the LCD will revert to the default display.
<b>DISABLED</b>	LED will be on if one or more devices are disabled. Pressing the DISABLED button will step through the queue of disablements. An event in the queue will be displayed for 15 s, after which time the LCD will revert to the default display.

**KEYPAD**



Navigation controls, used in conjunction with other functions and LCD

Increases the selection or number. Used for menu scrolling.



Decreases the selection or number. Used for menu scrolling.



Moves the cursor on the LCD.



Moves the cursor on the LCD.



Confirms the current entry.



Reverses/aborts the current entry or display.



Increments the loop number.



Decrements the loop number.

**CONTROLS**

**BUZZER SILENCE**

Acknowledges a new Alarm or Fault event and silences the internal sounder. The LED will illuminate when a new Condition occurs.

**RESET**

Resets the fire detection and alarm system.

**INDICATOR TEST**

Illuminates all LEDs, LCD segments and activates the internal sounder.

**ACTIVATE/SILENCE  
SOUNDERS**

Silences and activates audio/visual alarm devices. The LED illuminates when the alarm devices are active.

If the ACTIVATE/SILENCE SOUNDERS button is pressed when alarm delays are active, the delay timer will be cancelled and the alarm devices queued for activation will be silenced. Any subsequent fire events will no longer initiate the alarm delay timer until the control and indicating equipment has been reset.

## 2. ACCESS LEVELS

Four access levels are used to operate or configure the control and indicating equipment.

### 2.1. Access Level 1

Access Level 1 provides open access to perform the following functions:

- Override any configured active delays in the Alarm Condition.
- Alarm, Fault, Test and Disable queue review.
- Place the panel into Access Level 2 or Access Level 3.
- Perform the indicator test.

### 2.2. Access Level 2

Access Level 2 provides access to the functions enabled during configuration at Access Level 3 (see Menu Item 7-3-3). The default setting is to deny access to functions. Typical functions configured for Access Level 2 may include:

- Acknowledge a new event (and silence the internal sounder).
- Activate and de-activate pre-configured alarm delays.
- Perform the indicator test.
- Silence and re-active alarms (including for a building evacuation).
- Reset the fire detection and alarm system.
- Disable or enable the following:
  - Zones
  - Alarms
  - Auxiliary outputs

#### 2.2.1. Enter Access Level 2

To enter Access Level 2, undertake the following actions.

- 1) Press the ✓ button. The LCD will prompt to enter the Access Level 2 passcode.
- 2) Press the ▲ button on the keypad 5 times.
- 3) Press the ✓ button to confirm the passcode.

The LCD will display the Access Level and prompts to navigate through the Menu Items.

Access Level 2 allows unlimited input attempts, however the entry sequence must start within 10 s and there must be no more than 5 s between key presses. If these times are exceeded, the control and indicating equipment will revert to Access Level 1.

#### 2.2.2. Change Access Level 2 Passcode

The Access Level 2 passcode can be changed from the default settings. To change the Access Level 2 passcode, undertake the following actions.

- 1) Enter Access Level 3.
- 2) Select Menu Item 7-3-2.
- 3) Press the ▲, ▼, and ► buttons in the desired sequence.
- 4) Press ✓ to confirm and return to the menu.



## 2.3. Access Level 3

Access Level 3 is used to configure the control and indicating equipment and connected devices (see section 9).

### 2.3.1. Enter Access Level 3

To enter Access Level 3, undertake the following actions.

- 1) Press the ✓ button. The LCD will prompt to enter the Access Level 3 passcode.
- 2) Press the ▲ ▼ ▲ ▼ ▲ buttons on the keypad.
- 3) Press the ✓ button to confirm the passcode.

The LCD will display the Access Level and prompts to navigate through the Menu Items.

Access Level 3 allows unlimited input attempts, however the entry sequence must start within 10 s and there must be no more than 5 s between key presses. If these times are exceeded, the control and indicating equipment will revert to Access Level 1.

- Changes made at Access Level 3 affect the factory default settings and the operation of the system. Changes should only be made by qualified personnel who are fully aware of their effects.
- If an Alarm Condition or Fault Condition has occurred, the conditions must be acknowledged before entering Access Level 3. Access Level 3 can only be accessed when the control and indicating equipment has no unacknowledged events.

### 2.3.2. Change Access Level 3 Passcode

The Access Level 2 passcode can be changed from the default settings. To change the Access Level 3 passcode, undertake the following actions.

- 1) Enter Access Level 3.
- 2) Select Menu Item 7-3-4.
- 3) Press the ▲, ▼, and ► buttons to enter the current Access Level 3 passcode.
- 4) Press ✓ to enter the current passcode.
- 5) Press the ▲, ▼, and ► buttons to enter the new passcode the desired sequence.
- 6) Press ✓ to enter the new passcode.
- 7) Press the ▲, ▼, and ► buttons to confirm the new passcode the desired sequence.
- 8) Press ✓ to confirm and return to the menu.

## 2.4. Access Level 4

Access Level 4 is used to restore the factory default settings, and is rarely required. Where restoration is required, contact Numens Customer Service.

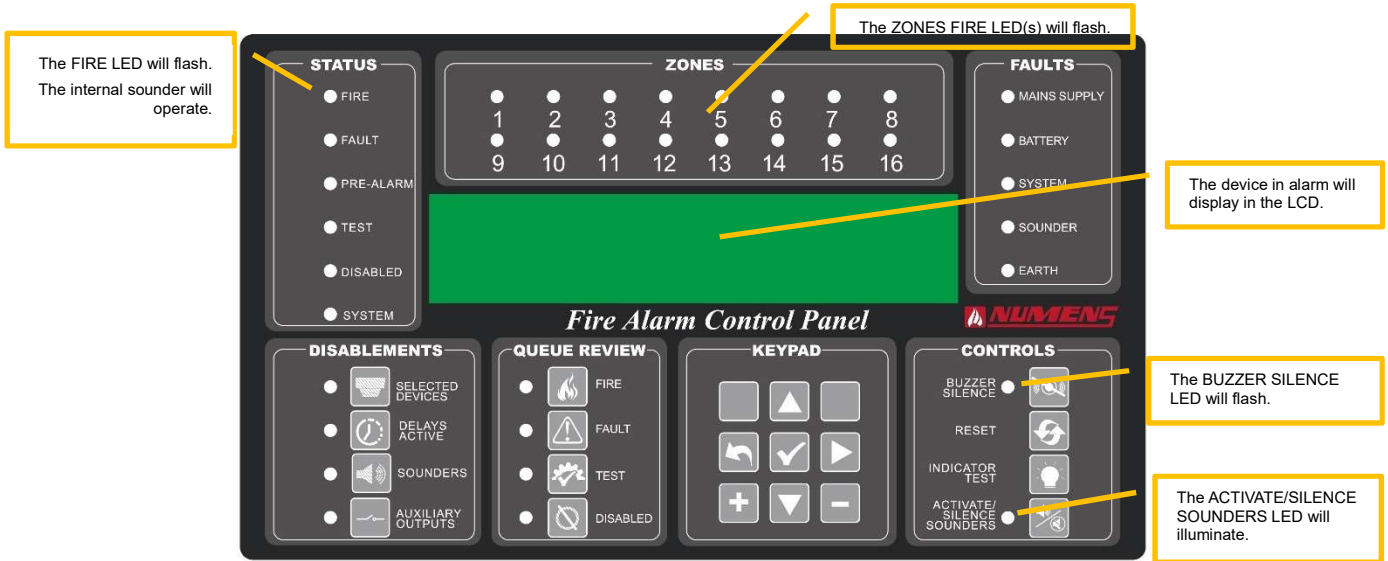
### 3. CONDITIONS

#### 3.1. Quiescent Condition

The Quiescent Condition is the normal condition for the control and indicating equipment. In the Quiescent Condition, only the SYSTEM LED is on.

#### 3.2. Alarm Condition

When the control and indicating equipment enters the Alarm Condition, the audio/visual alarm devices and output modules will operate according to their configuration programming.



#### 3.3. Actions During the Alarm Condition

##### 3.3.1. Fire Investigation

After the control and indicating equipment enters the Alarm Condition, take the following actions.

- 1) Enter Access Level 2.
- 2) Press BUZZER SILENCE to acknowledge the Alarm and silence the internal sounder. The FIRE LED will be on steady and the internal sounder will silence.
- 3) Read the details of the alarm event on the LCD and investigate the source of the Alarm Condition.

**DO NOT RESET THE CONTROL AND INDICATING EQUIPMENT UNTIL THE SOURCE OF THE ALARM HAS BEEN DETERMINED.**

- 4) If the building or area needs to be evacuated, once the area(s) is cleared, silence the alarm devices by pressing the ACTIVATE/SILENCE SOUNDERS button. The ACTIVATE/SILENCE SOUNDERS LED will turn off. Alarm devices can be re-started by pressing the button a second time.
- 5) If the cause of the Alarm Condition was not a fire, enter Access Level 2 and press the RESET button to reset the fire detection and alarm system.
- 6) If the cause of the fire alarm has not cleared, the control and indicating equipment will re-enter the Alarm Condition. If this occurrence repeats, disable the zone and contact the service company.


##### 3.3.2. Multiple Devices in Alarm

If more than one device is signaling a fire alarm, the QUEUE REVIEW FIRE LED will flash. Press the FIRE button to scroll through the list of devices.

Once all devices in alarm have been viewed, the QUEUE REVIEW FIRE LED will be on steady. After 20 s, the LCD will revert to the first fire alarm event.

### 3.3.3. Audio/Visual Alarm Device Silence/Activation

The audio/visual alarm devices will activate during the Alarm Condition. If all occupants have evacuated the building, or the cause of the Alarm Condition was not a fire, then the alarm devices (both audible and visual) can be silenced. To silence/active alarm devices, take the following actions:

- 1) Enter Access Level 2.
- 2) Press ACTIVATE/SILENCE SOUNDERS button. The ACTIVATE/SILENCE SOUNDERS button will toggle the audio/visual alarm devices between off and on.
- 3) To exit to Access Level 2, press  twice.

### 3.3.4. Delays Active Override

If Alarm Condition delays have been configured, audio/visual alarm devices and output module activations will be delayed until the pre-set time has expired. When delays have been configured and an alarm is received from an initiating device, the DELAYS ACTIVE LED will be on.

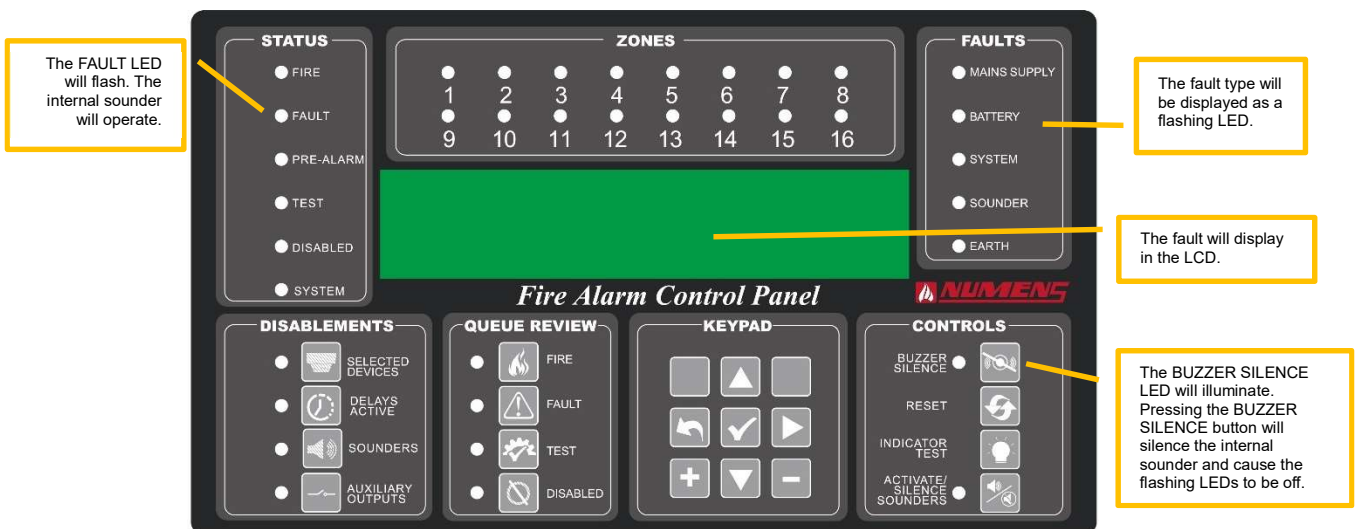
To override pre-programmed delays to the Alarm Condition, take the following actions:

- 1) Enter Access Level 1.
- 2) Press the DELAYS ACTIVE button. The audio/visual alarm devices configured for operation will activate.

If there is an alarm signal waiting to be processed, the control and indicating equipment will immediately enter the Alarm Condition.

## 3.4. Fault Condition

When a fault occurs with a device or within the control and indicating equipment, the control and indicating equipment will enter the Fault Condition. In the Fault Condition, the internal sounder will operate.



## 3.5. Actions During the Fault Condition

### 3.5.1. Fault Investigation

After the control and indicating equipment enters the Fault Condition, take the following actions.

- 1) Enter Access Level 2.
- 2) Press BUZZER SILENCE to acknowledge the Fault and silence the internal sounder. The FAULT LED will be on steady and the internal sounder will silence.
- 3) Read the details of the alarm event on the LCD and investigate the source of the Fault Condition.

**DO NOT RESET THE CONTROL AND INDICATING EQUIPMENT UNTIL THE SOURCE OF THE FAULT HAS BEEN DETERMINED.**

- 4) Once the cause of the fault has been rectified, press the RESET button to reset the fire detection and alarm system.
- 5) If the cause of the fault has not cleared, the control and indicating equipment will re-enter the Fault Condition. If this occurrence repeats, disable the zone and contact the service company.

### **3.5.2. Multiple Devices in Fault**

If more than one fault has occurred, the QUEUE REVIEW FAULT LED will flash. Press the FAULT button to scroll through the list of devices.

Once all devices in fault have been viewed, the QUEUE REVIEW FAULT LED will be on steady. After 20 s, the LCD will revert to the first fault event (or the first fire alarm event if a fire alarm is present).

## **3.6. Disabled Condition**

The Disabled Condition is used to inhibit:

- Events (eg a detector alarm) being actioned by the control and indicating equipment.
- Actions initiated by the control and indicating equipment from occurring within a zone (eg activation of an alarm device).
- Signals being sent to outputs.

Multiple options are available to disable devices, zones or loops.

### **3.6.1. Initiating Device Disablement**

Audio/visual alarm devices connected to the addressable loop, or to the SNDR 1 or SNDR 2 outputs (for non-addressable alarm devices) may be disabled or enabled. When disabled, the device will not report fire or fault events and no outputs will activate. This function does not disable/enable audio/visual alarm devices (see Menu Item 3-3).

To disable a device (eg detector or audio/visual alarm device), follow the steps for Menu Item 5-1-2 (see 9.24). Disabled devices will be indicated on the LCD and can be reviewed using the DISABLED QUEUE REVIEW function.

### **3.6.2. Audio/Visual Alarm Device Disablement**

Audio/visual alarm devices connected to the addressable loop, or to the SNDR 1 or SNDR 2 outputs (for non-addressable alarm devices) may be disabled or enabled. When disabled, alarm devices will not operate during an Alarm Condition. However, disabled alarm devices will operate during an evacuation request. The status of each alarm device is shown as:

- D for disabled
- E for enabled

To disable a device (eg detector or audio/visual alarm device), follow the steps for Menu Item 3-3 (see 9.11).

Disabled devices will be indicated on the LCD and can be reviewed using the DISABLED QUEUE REVIEW function.

### **3.6.3. Zone Disablement**

Zones configured on the addressable loop(s) may be disabled and enabled. A disabled zone will not report any events (alarms or faults) from connected devices. However, audio/visual alarm devices connected to the zone will remain operational. Audio/visual alarms are disabled within Menu Item 3-3.

To disable a zone configured on the addressable loop, follow the steps for Menu Item 2-1 (see 9.4).

Disabled zones will be indicated on the LCD and can be reviewed using the DISABLED QUEUE REVIEW function.

### **3.6.4. Loop Disablement**

An individual addressable loop may be disabled or enabled. When disabled, no devices on the loop will report fire or fault events and no outputs will activate. However, audio/visual alarm devices will continue to operate in the Alarm Condition.

To disable an addressable loop, follow the steps for Menu Item 5-1-1 (see 9.23).

Disabled loops will be indicated on the LCD and can be reviewed using the DISABLED QUEUE REVIEW function.

### 3.6.5. Delays Active Disablement

If Alarm Condition delays have been configured, audio/visual alarm devices and output module activations will be delayed until the pre-set time has expired. When delays have been configured and an alarm is received from an initiating device, the DELAYS ACTIVE LED will be on. To disable pre-programmed delays to the Alarm Condition, take the following actions:

- 3) Enter Access Level 1
- 4) Press the DELAYS ACTIVE button.

If there is an alarm signal waiting to be processed, the control and indicating equipment will immediately enter the Alarm Condition.

### 3.6.6. Auxiliary Outputs Disablement

Initiating devices may be configured inhibit the activation of auxiliary output relays.

To disable an initiating device from activating the alarm relay outputs, follow the steps for Menu Item 5-1-1 (see 9.29).

### 3.6.7. Enable Functions

To re-enable a disabled function, follow the steps above. The relevant LEDs will be off.

## 3.7. Test Condition

Tests can be conducted by a single person. To enter the Test Condition and undertake tests of the control and indicating equipment, and connected devices, follow these steps:

### 3.7.1. Indicator Test

Press the INDICATOR TEST button. All visual indicators and the internal sounder will activate will the button is pressed.

### 3.7.2. Initiating Device Test

When configured, initiating devices may be grouped into zones and tested using convenient testing functions. Tests are conducted in Access Level 3 or Access Level 2 (if configured).

When testing devices, the Alarm Condition will be affected by configuration settings such as coincident detection and alarm zone delays.

### Initiating Device Tests by Zone

- 1) For testing convenience, audio/visual alarm devices may be configured to operate when an initiating device is tested (see Menu Item 6-3).
- 2) Select zones to be tested (see Menu Item 6-4). Zones in Test mode can be viewed by pressing the TEST QUEUE REVIEW button.
- 3) Exit Access Level 2 or 3 (depending on the configuration). Do not reset the equipment because a reset will clear the test mode configuration settings.
- 4) Test each initiating device within the zone. The initiating device indicator will be illuminated. The control and indicating equipment will display the fire signal for 15 s. The audio/visual alarm devices will operate for 1 s.

### Un-zoned Initiating Device Tests

- 1) Ensure the control and indicating equipment is in Active mode (see Menu Item 7-3-1). If the equipment was not in Active mode, exit Access Level 3 and press the RESET button.
- 2) Test each initiating device. The initiating device indicator will be illuminated. The control and indicating equipment will display the fire signal. The audio/visual alarm devices will operate.

### **3.7.3. Single-Person Test**

Devices can be tested by a single person. In the single-person test mode, all devices (both assigned and not assigned to zones) will be placed into test mode. Disabled audio/visual alarm devices will operate during the test. Indicators on disabled initiating devices will not operate during the test.

The single-person test can be undertaken in Access Level 2 or Access Level 3. For the single-person test to operate, the following pre-conditions apply.

- The control and indicating equipment is in Active mode.
- No Menu Items are displayed.
- No fire alarms are active.
- No audio/visual alarm devices are operating.
- No other test mode is active.

Only one device can be tested at a time, so the indications following the testing of a device must be off before a subsequent device is tested.

To test devices, undertake the following the steps.

- 1) Press and hold the QUEUE REVIEW TEST button. At the same time, press the INDICATOR TEST button. Check that the TEST LED illuminates. Check that the internal sounder operates for 0.5 s every 5 s. Check that the LCD shows the message DETECTOR TEST MODE and ALL ZONES.
- 2) Test an initiating device. Check that the initiating device indicator is on, that the fire signal is displayed on the LCD for 15 s, and that the audio/visual alarm devices operate for 1 s.
- 3) Check that the visual indicators are off before testing a subsequent device. Only one device can be tested at a time.

The single-person test mode will be recorded in the history log, but the results of individual tests will not be recorded.

### **3.7.4. Audio/Visual Alarm Device Test**

For minimal disruption in an occupied building, audio/visual alarm devices can be activated for 1 s, followed by silence for 9 s (see Menu Item 6-2).

#### **Test All**

To test all audio/visual alarm device, press the ACTIVATE/DEACTIVE SOUNDERS button.

#### **Specific Tests**

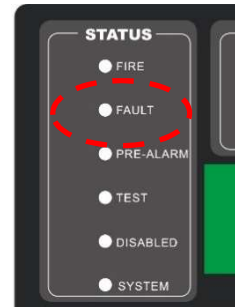
Audio/visual alarm devices can be configured into groups and conditionally operate depending on other configuration settings, such as delay timer settings and fire detection within specific zones. To test individual alarm devices or groups of alarm devices, review the configuration settings and prepare a specific test plan.



## 4. TROUBLE SHOOTING GUIDE

### 4.1. General Fault Indicator

The FAULT indicator in the STATUS area of the display is always illuminated whenever the control and indicating equipment is in the Fault Condition. The General fault indicator is associated with a specific fault that will be indicated in the ZONES or FAULTS area of the display.



Condition	Description	Actions
<b>Mains Supply Fault</b>	Indicates the unavailability of the mains power.	Check the power supply fuse. Replace the fuse if it is faulty. Check the incoming mains supply voltage.
<b>Battery Fault</b>	Indicates the unavailability of the battery power, or a voltage level less than DC 20V. The battery may be depleted because the mains supply has been unavailable for an extended period of time, or there is a fault in the battery charger that prevents the batteries from being charged.	Check that the battery connections are secure. Measure the battery voltage. If the battery voltage is less than the manufacturer's minimum voltage, replace the batteries. Measure the battery charging voltage to ensure the battery charger is operating correctly.
<b>System Fault</b>	Indicates a fault with the internal supply voltages used to supply power to the microprocessor, or to the running of the control program.	Contact the service company to replace the main controller.
<b>Earth Fault</b>	Indicates a current leakage from any of the fire detection and alarm system wires to Earth. This may occur if there is damage to a single conductor, and it contacts some conductive equipment connected to Earth.	Isolate each of the transmission paths in turn until the conductor causing the Earth has been identified. Trace the faulty conductor to locate the source of the connection to Earth.

## 5. GLOSSARY AND REFERENCES

The following terms are associated with the 6004 addressable control and indicating equipment.

Term	Description	Reference
Access levels	Hierarchical levels to gain access to specific control and configuration functions.	EN 54-2, <i>Control and indicating equipment</i>
Alarm Condition	When an event from an initiating device (eg detector) is recognized as a fire.	EN 54-2, <i>Control and indicating equipment</i>
Alarm signal	The audible or visual signal to the building occupants that a Fire Condition has occurred. Alarm signals are generated by audio/visual alarm devices.	
Control and indicating equipment	This equipment, that monitors devices displays events, initiates alarm devices, and allows control of the fire detection and alarm system.	EN 54-1, <i>General and definitions</i>
Disable Condition	When an alarm zone (input devices or outputs) will not report alarm or fault events, nor respond to any event even reported by another zone.	EN 54-2, <i>Control and indicating equipment</i>
Fault Condition	When an event (either from an input device, a transmission path, or within the control and indicating equipment) is recognized as a fault.	EN 54-2, <i>Control and indicating equipment</i>
Fire detection and alarm system	All detection, control and alarm equipment, including detectors, manual call points, control and indicating equipment, and audio & visual alarm devices.	EN 54-1, <i>General and definitions</i>
Initiating device	An input device, such as a smoke detector, manual call point or input module that signals an event (such as a fire) to the control and indicating equipment.	

The following documents are associated with the 6004 addressable control and indicating equipment.

Description	Reference
6004 Control and indicating equipment	31-0073 datasheet; 32-0045 installation manual; 33-0021 user manual
6001 Repeater panel	31-0054 datasheet; 32-0037 installation manual; 33-0014 user manual
6001-03 Network interface card	31-0048 datasheet
6001-04 Remote LED display card, 16 indicators	31-0049 datasheet
6001-07 Detection zone 8-relay output card	31-0052 datasheet



### Website

For more information, including product datasheets and other support material, please view our website at [www.numens.com](http://www.numens.com).



### Contact Us

For sales and specific enquiries, please contact our sales office by telephone or email. Enquiries can also be submitted through our website.

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For more information, including product datasheets and other support material, please view our website at [www.numens.com](http://www.numens.com).

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