






# 1X-E4 Series Operation Manual

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<b>Version</b>	This document applies to 1X-E4 Series control panels with software version 2.0 or later.
<b>Certification</b>	
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# Important information

## Advisory messages

Advisory messages alert you to conditions or practices that can cause unwanted results. The advisory messages used in this document are shown and described below.

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**WARNING:** Warning messages advise you of hazards that could result in injury or loss of life. They tell you which actions to take or to avoid in order to prevent the injury or loss of life.

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**Caution:** Caution messages advise you of possible equipment damage. They tell you which actions to take or to avoid in order to prevent the damage.

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**Note:** Note messages advise you of the possible loss of time or effort. They describe how to avoid the loss. Notes are also used to point out important information that you should read.

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Installation in accordance with this manual, applicable codes, and the instructions of the authority having jurisdiction is mandatory.

While every precaution has been taken during the preparation of this manual to ensure the accuracy of its contents, UTCFS assumes no responsibility for errors or omissions.

# Introduction

This is the operation manual for 1X-E4 Series conventional fire alarm and evacuation control panels. Read these instructions and all related documentation entirely before operating this product.

## Product range

The 1X-E4 Series includes the models shown below.

**Table 1: 1X-E4 Series models**

Model	Description
1X-E4	Four-zone conventional fire alarm and evacuation control panel, supporting four evacuation areas without alarm counter
1X-E4-NL	Four-zone conventional fire alarm and evacuation control panel, supporting four evacuation areas with alarm counter

## Operating modes

Supported operating modes are shown in the table below. The default operating mode is NEN 2575 with four evacuation areas.

**Table 2: Operating modes**

Operating mode	EN 54-13 option [1]	Region
NEN 2575 4E (default)	Available [2]	European Union
NEN 2575 2E	Available	European Union
NEN 2575 1E	Available	European Union

[1] EN 54-13 supervision requires compatible system wiring and devices and must be enabled by the installer in the control panel configuration.

[2] Requires a 2010-1-SB expansion board to be installed (not supplied).

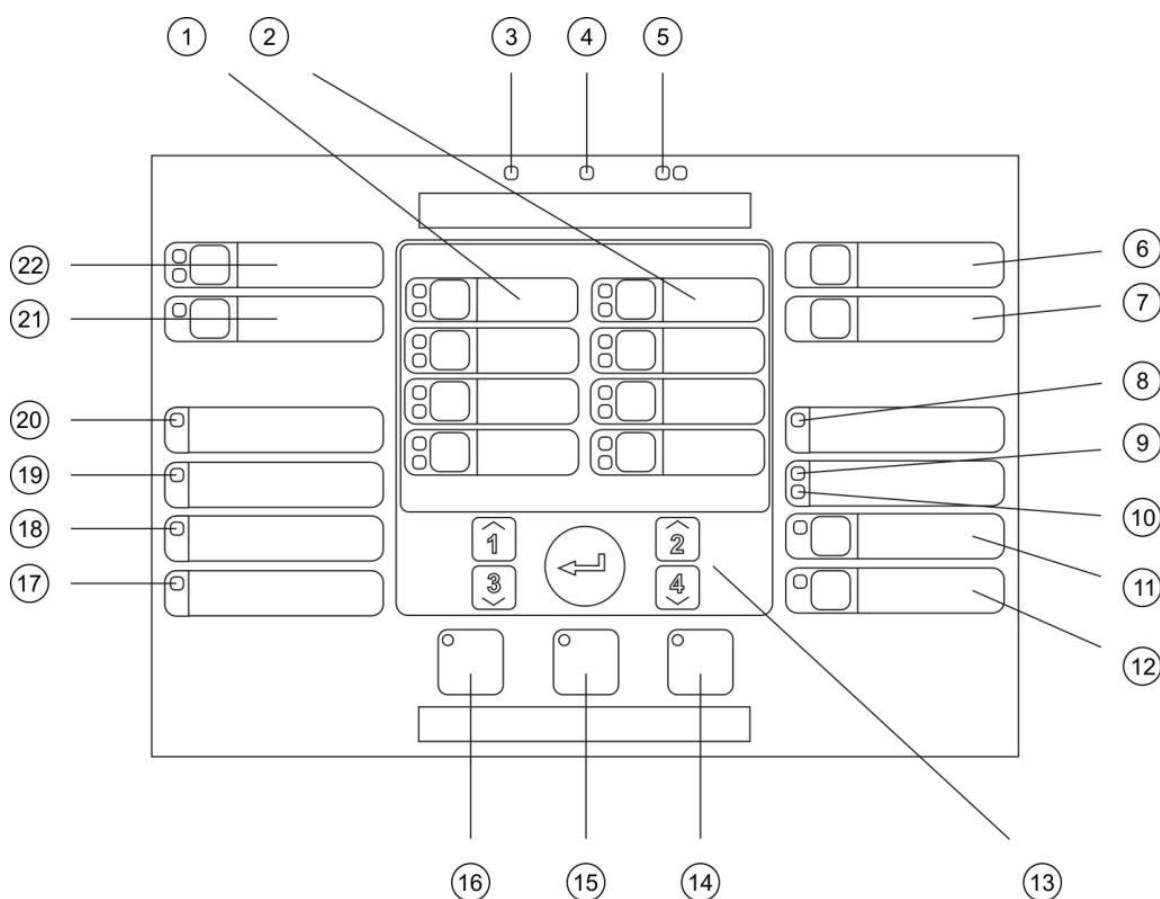
As there is no visual indication of the active operating mode, your installation or maintenance contractor should provide full details of your configuration.

# Control panel overview

This topic provides an introduction to the control panel interface, operator controls, and indicators.

## User interface for the 1X-E4 control panel

Figure 1: User interface for the 1X-E4 control panel



- |                                      |  |
|--------------------------------------|--|
| 1. Zone buttons and LEDs             | 12. General Test button and LED        |
| 2. Evacuation Area buttons and LEDs  | 13. Configuration controls             |
| 3. Supply LED                        | 14. Reset button and LED               |
| 4. General Fault LED                 | 15. Panel Silence button and LED       |
| 5. General Fire Alarm LEDs           | 16. All Sounders Start button and LED  |
| 6. All Sounders Stop button          | 17. System Fault LED                   |
| 7. Confirm button                    | 18. Out of Service LED                 |
| 8. Networking Fault LED              | 19. Earth Fault LED                    |
| 9. Service Detector LED              | 20. Supply Fault LED                   |
| 10. Expansion I/O Fault/Disabled LED | 21. Fire Routing Delay button and LED  |
| 11. General Disable button and LED   | 22. Fire Routing Start button and LEDs |

## Configuration options

Configuration options may result in changes to interface buttons and LEDs. See Table 3 below.

**Table 3: Configured changes to interface buttons and LEDs**

Item	NEN 2575	NEN 2575 with EN 54-13
9	Service Detector	Fault Output Fault/Disabled

## Operator controls and indicators

The following table gives an overview of the control panel operator controls and indicators. Item numbers refer to Figure 1 on page 2.

Operational features described here may not be available to all users. Further information on control panel operation and access restrictions can be found in the topic “Control panel operation” on page 11.

**Table 4: Operator controls and LED indicators**

Item	Control/LED	LED colour	Description
1	Zone buttons and LEDs	Red/Yellow	<p>Disables or tests a zone (when pressed with the General Disable or General Test button).</p> <p>A red LED indicates an alarm in the corresponding zone.</p> <p>A flashing red LED indicates that the fire alarm was activated by a detector. A steady red LED indicates that the fire alarm was activated by a manual call point.</p> <p>A yellow LED indicates a fault, test, or disablement in the corresponding zone.</p> <p>A flashing yellow LED indicates a fault. A steady yellow LED indicates that the zone is disabled or is being tested.</p>
2	Evacuation Area buttons and LEDs	Red/Yellow	<p>Disables or tests the evacuation area (when pressed together with the General Disable or General Test button).</p> <p>The red LED indicates an evacuation alarm in the corresponding evacuation area.</p> <p>A flashing yellow LED indicates a fault. A steady yellow LED indicates that the evacuation area is disabled or is being tested.</p>
3	Supply LED	Green	Indicates that the system is powered up correctly.
4	General Fault LED	Yellow	Indicates a fault. The corresponding zone, device, or function fault LED also flashes.

Item	Control/LED	LED colour	Description
5	General Fire Alarm LEDs	Red	<p>Indicates a fire alarm.</p> <p>Flashing LEDs indicate that the fire alarm was activated by a detector.</p> <p>Steady LEDs indicate that the fire alarm was activated by a manual call point.</p> <p>The corresponding zone alarm LED indicates the source of fire alarm.</p>
6	All Sounders Stop button	Yellow	Stops sounders in all evacuation areas.
7	Confirm button	Yellow	Confirms an evacuation alarm (when pressed with the corresponding evacuation area button or the All Sounders Start button).
8	Networking Fault LED	Yellow	<p>The control panel is not connected to a fire network if this LED is off.</p> <p>A flashing LED every 10 seconds indicates the control panel is connected to a fire network with no faults.</p> <p>A steady LED for 30 seconds indicates the control panel is showing local information.</p> <p>A flashing LED indicates network faults.</p>
9	Service Detector LED	Yellow	<p>Indicates a fault of detectors requiring service (only for detectors supporting CleanMe functionality).</p> <p>The control panel will indicate the zone with the detectors which need servicing by flashing the yellow zone LED.</p>
	— or —		
	Fault Output Fault/Disabled LED		A flashing LED indicates a wiring fault of the fault warning output. A steady LED indicates that the feature is disabled. (For EN 54-13 configurations.)
10	Expansion I/O Fault/Disabled LED	Yellow	<p>Indicates that an installed expansion board has a fault or is disabled.</p> <p>A flashing LED indicates a fault with an expansion board. A steady LED indicates that an expansion board is disabled.</p>
11	General Disable button and LED	Yellow	<p>Disables a zone, evacuation area, fire routing, fault warning (for NEN 2575 with EN 54-13 supervision), or expansion I/O boards (when pressed with the corresponding button).</p> <p>A steady General Disable LED and a steady yellow LED for the corresponding zone, evacuation area, or fire routing, fault warning (for NEN 2575 with EN 54-13 supervision) or expansion I/O indicates a disablement.</p>

Item	Control/LED	LED colour	Description
12	General Test button and LED	Yellow	<p>Tests a zone, evacuation area or fire routing (when pressed with the corresponding button).</p> <p>A steady General Test LED and a steady yellow LED for the corresponding zone, evacuation area, or fire routing indicates a test.</p>
13	Numeric keypad and Enter button	N/A	<p>Used to enter the operator user level password.</p> <p>The Enter button is also used to disable or test selected features (when pressed with the General Disable or Test button).</p> <p>For control panels in a network with repeater functionality, the Enter button is used to show control panel local events.</p>
14	Reset button	Yellow	<p>Resets the control panel and clears all current system events (except expansion I/O board fault communication).</p> <p>A steady LED indicates that operator user level is active (see “User levels” on page 11).</p>
15	Panel Silence button and LED	Yellow	<p>Silences the control panel buzzer and acknowledges all current events.</p> <p>A steady LED indicates that all current events were acknowledged.</p>
16	All Sounders Start button and LED	Red	<p>Activates the sounders in all evacuation areas (when pressed with the Confirm button). Pressing the All Sounders Stop button stops them.</p> <p>A steady LED indicates that the sounders are active (sounding)</p>
17	System Fault LED	Yellow	Indicates a control panel processor failure.
18	Out of Service LED	Yellow	<p>Indicates that control panel power supply conditions put fire detection zones and inputs out of service.</p> <p>Other system functions remain operational (including networking and output activation).</p> <p>A steady yellow LED indicates that there is no mains power and the battery power is insufficient. A flashing yellow LED indicates that the mains power is insufficient and there is no battery power.</p>
19	Earth Fault LED	Yellow	Indicates an earth isolation fault.
20	Supply Fault LED	Yellow	<p>Indicates a fault with the power supply.</p> <p>A flashing LED indicates a battery or battery fuse fault. A steady LED indicates a mains or mains fuse fault.</p>

Item	Control/LED	LED colour	Description
21	Fire Routing Delay button and LED	Yellow	<p>Enables or disables a previously configured fire routing delay.</p> <p>A steady LED indicates that a fire routing delay is configured and enabled. A flashing LED indicates that a fire routing delay is counting (fire routing will be activated when the configured delay elapses).</p>
22	Fire Routing Start button and LED	Red/Yellow	<p>Cancels a previously configured delay and activates fire routing.</p> <p>A flashing red LED indicates that fire routing has been activated. A steady red LED indicates that the fire routing signal has been acknowledged by the remote monitoring equipment.</p> <p>A flashing yellow LED indicates a fault. A steady yellow LED indicates that the function is disabled or is being tested.</p>

## Audible indicators

The control panel buzzer acts as an audible indicator to highlight system events. It can sound a continuous tone or an intermittent tone.

**Table 5: Audible indications**

Indication	Description
The control panel buzzer sounds continuously	Indicates a fire alarm or a system fault
The control panel buzzer sounds intermittently	Indicates all other faults

## Summary of status indications

This section includes a summary of the default control panel status indications.

### Standby (normal status)

Standby, or normal status, is indicated as follows:

- Supply LED: On steady.
- Fire Routing Delay LED: On steady if a fire routing delay was enabled.
- Control panel buzzer: Off.

## Fire alarm

Fire alarm status is indicated as follows:

- General Fire Alarm LEDs: Flashing if the alarm was activated by a detector. Steady if the alarm was activated by a manual call point.
- Zone LED: Flashing red if the alarm was activated by a detector. Steady red if the alarm was activated by a manual call point. Shows which zones are in alarm.
- Evacuation Area LED: On steady to indicate that sounders are active in those areas (sounding).
- All Sounders Start LED is steady (if all evacuation areas are active).
- Fire Routing Delay LED: Flashing slow when a fire routing delay is active (counting). Flashing fast when an extended fire routing delay is active (counting).
- Fire Routing Start LED: Flashing when fire routing is activated. On steady when the fire routing signal has been acknowledged by the remote monitoring equipment.
- Control panel buzzer: Sounding continuous.

Alarms activated by a manual call point always take priority over alarms activated by a detector. If an alarm is activated by both devices, the Fire Alarm LEDs and Zone alarm (red) LEDs are on steady.

## Evacuation

In evacuation status, the panel activates the sounders without detection of a zone alarm. The status is indicated as described below.

- Evacuation Area LED: On steady to indicate that sounders are active in those areas (sounding)
- All Sounders Start LED: On steady (if all evacuation areas are active)
- Control panel buzzer: Sounding continuous

## Fault

Fault status is indicated as follows:

General fault indication:

- General Fault LED: Flashing.
- Corresponding zone, evacuation area, function, or device fault LED: Flashing yellow.
- Control panel buzzer: Sounding intermittent.

Mains power fault and mains fuse fault indication:

- General Fault LED: Flashing.
- Supply Fault LED: On steady.
- Control panel buzzer: Sounding intermittent.

Battery power and battery fuse fault indication:

- General Fault LED: Flashing.
- Supply Fault LED: Flashing.
- Control panel buzzer: Sounding intermittent.

Earth fault indication:

- General Fault LED: Flashing.
- Earth Fault LED: On steady.
- Control panel buzzer: Sounding intermittent.

**Note:** Contact your installation or maintenance contractor to investigate the cause of all reported faults.

### **Disabling**

Disabled zones are indicated as follows:

- General Disable LED: On steady.
- Corresponding Zone LED: On steady yellow.
- Control panel buzzer: Off.

Disabled evacuation areas are indicated as follows:

- General Disable LED: On steady.
- Evacuation Area LED: On steady yellow.
- Control panel buzzer: Off.

Disabled fire routing is indicated as follows:

- General Disable LED: On steady.
- Fire Routing LED: On steady yellow.
- Control panel buzzer: Off.

Disabled expansion boards are indicated as follows:

- General Disable LED: On steady.
- I/O LED: On steady yellow.
- Control panel buzzer: Off.

Disabled fault warning (if configured) is indicated as follows:

- General Disable LED: On steady.
- Fault Warning LED: On steady yellow.
- Control panel buzzer: Off.

## Tests

A zone test is indicated as follows:

- General Test LED: On steady.
- Corresponding Zone LED: On steady yellow.
- Control panel buzzer: Off.

An evacuation area test is indicated as follows:

- General Test LED: On steady.
- Evacuation Area: On steady yellow.
- Control panel buzzer: Off.

A fire routing test is indicated as follows:

- General Test LED: On steady.
- Fire Routing Start LED: On steady yellow.
- Control panel buzzer: Off.

## Out of service

The control panel is out of service when there is insufficient or no mains or battery power. Zone and input detection does not operate, but the rest of the system is operational. In this state, the control panel may receive network events which activate its outputs.

Out of service is indicated as follows:

- Out of Service LED: On steady.
- Supply Fault LED: Flashing if there is no mains power and the battery voltage is insufficient. On steady if the mains power is insufficient and no battery power is detected.
- Control panel buzzer: Sounding intermittent.

The out of service state latches. When power is re-established, the panel must be reset to remove this fault.

**Note:** When the control panel indicates *out of service*, your fire alarm and evacuation system is partly inactive and your site is not properly protected. Contact your installation or maintenance contractor immediately to investigate the problem.

## Sounder activation during a fire alarm

The evacuation area sounders that are activated by fire alarms in fire detection zones 1 through 4 are defined by the control panel operating mode, as shown below.

**Table 6: Sounder activation during a fire alarm**

Operating mode	Sounder activation
NEN 2575 with four evacuation areas	Sounders in evacuation area 1 are activated by a fire alarm in zone 1.
	Sounders in evacuation area 2 are activated by a fire alarm in zone 2.
	Sounders in evacuation area 3 are activated by a fire alarm in zone 3.
	Sounders in evacuation area 4 are activated by a fire alarm in zone 4.
NEN 2575 with two evacuation areas	Sounders in evacuation area 1 are activated by a fire alarm in zone 1 or zone 2.
	Sounders in evacuation area 2 are activated by a fire alarm in zone 3 or zone 4.
NEN 2575 with one evacuation area	All sounders are activated simultaneously by a fire alarm in any zone

# Control panel operation

## User levels

For your safety, access to some features of this product are restricted by user levels. The access privileges of each user level are described below.

### Public user

The public user level is the default user level. This level allows basic operational tasks to respond to fire alarms and/or faults at the control panel. No password is required.

See “Public user level operation” below for more information.

### Operator user

The operator user level allows additional operating tasks that command the system or perform maintenance actions. It is reserved for authorized users who have been trained to operate the control panel.

The default password for the operator/maintenance user is 2222.

See “Operator user level operation” on page 13 for more information.

This is a restricted user level protected by password security. To enter the operator user level, enter the corresponding password using the numeric keypad, and then press Enter.

A long beep and a steady Reset LED indicate that the correct password was entered and that the operator user level is active. Three short beeps accompanied by a flashing General Fault LED indicate that an incorrect password was entered.

The control panel automatically exits the operator user level and reverts to the public user level after 5 minutes if no button is pressed.

**Note:** The control panel is available with an access key option. The key switch is located on the panel cover. With this option, either the key or the password can be used to enter the operator user level.

## Public user level operation

Public user level operations are those that can be performed by any user. No password is required to perform tasks at this level.

Public user level operation lets you:

- Acknowledge a system event and silence the control panel buzzer
- Activate an evacuation alarm
- Cancel an active fire routing delay
- Perform a control panel LED and buzzer test
- Display local indications only (for control panels with repeater functionality)

### **Acknowledging a system event and silencing the control panel buzzer**

To acknowledge a system event and silence the control panel buzzer, press the Panel Silence button.

A steady Panel Silence LED indicates that the buzzer was silenced and that all current events are acknowledged.

### **Activating an evacuation alarm**

To activate an evacuation alarm in all evacuation areas, press the All Sounders Start button, and then press the Confirm button.

To activate an evacuation alarm in a single evacuation area, press the corresponding evacuation area button, and then press the Confirm button.

### **Cancelling an active fire routing delay**

If a fire routing delay is enabled and active, press the Fire Routing Start button or the Fire Routing Delay button to cancel the delay and activate fire routing immediately.

A fire routing delay is indicated as follows:

- Steady Fire Routing Delay LED: A delay is enabled.
- Flashing Fire Routing Delay LED during a fire alarm: A configured delay is active. Fire routing is activated when the configured delay elapses or when the delay is cancelled.

A fire alarm activated by a manual call point overrides any configured delay and activates fire routing immediately.

### **Performing a control panel LED indicator and control panel buzzer test**

To perform a control panel LED indicator and buzzer test, press and hold the Test button for more than 3 seconds.

The test is indicated as follows:

- General Fault LED: Flashing.
- System Fault LED: Flashing.
- All other LEDs: On steady.
- Control panel buzzer: Sounding continuous.

The test continues as long as the Test button remains pressed (with an automatic timeout of 12 seconds). When the test is completed the control panel returns to its former state.

**Note:** Devices connected to the control panel fault relay will also be activated for the duration of this test.

### **Displaying local indications only**

For control panels connected in an evacuation panel network with repeater functionality, an indication is activated if any control panel in the network being repeated has the feature activated. For zone indications which are global in the

evacuation panel network, it is not required to repeat other control panels to show their zone indications.

Therefore all control panels display the local and remote information. If you need to show only local status in a control panel:

- Press the Enter button for at least 3 seconds.
- A steady Networking Fault LED indicates network remote indications are disabled momentarily.
- Only local information is shown for 30 seconds. After this time, the Networking Fault LED turns off and the control panel shows global (local and remote) information according to its configuration.

#### Example 1

If you have an eight-zone evacuation system with two four-zone evacuation control panels where both panels repeat each other, and you need to identify which panel has a supply fault you should press Enter for 3 seconds. The control panel without the supply fault will turn off the supply fault indication.

#### Example 2

If you have an eight-zone evacuation system with two four-zone evacuation control panels that are not repeating each other, then one panel has a zone range of 1 to 4 and the other panel has a zone range of 4 to 7. Sharing zone 4 will allow activating evacuation area 4 and 1 of one control panel with events of zone 4 in the other panel.

If there is a defective device causing false alarms in zone 4 of panel 1, you can disable it and keep some detection active (zone 4 of panel 2 operational). The zone 4 yellow LED will activate in both panels. Afterwards, an alarm in zone 4 of panel 2 will cause both panels to activate and the zone 4 red and yellow LEDs in both panels will be active.

Pushing Enter for 3 seconds at panel 1 will cause the red LED indication of zone 4 to disappear, indicating that the control panel has zone 4 disabled. At this point, you will know the alarm is from zone 4 of panel 2. You can confirm this by pushing Enter for 3 seconds at panel 2. In this case, the yellow LED indication disappears.

## Operator user level operation

The operator user level is protected by password security and is reserved for authorized users who are trained to operate the control panel for control and maintenance purposes. The default operator user password is 2222.

Those tasks included in the topic “Public user level operation” on page 11 are also available at the operator user level.

This user level lets you:

- Reset the control panel
- Stop or restart sounders

- Enable or disable a configured fire routing delay
- Enable or disable a configured extended fire routing delay
- Test a zone
- Disable or enable a zone
- Test evacuation sounders
- Disable or enable evacuation sounders
- Test fire routing
- Disable or enable fire routing
- Disable or enable other features (all expansion boards and fault warning outputs in NEN 2575 with EN 54-13 supervision mode)

### **Resetting the control panel**

**Note:** Investigate all alarms and system faults before resetting the control panel.

To reset the control panel and clear all current system events, press the Reset button. System events that have not been resolved continue to be highlighted when the reset process ends.

### **Stopping or restarting sounders**

To stop the sounders, press the All Sounders Stop button. To restart stopped sounders, press the All Sounders Start button and the Confirm button. A steady All Sounders Start LED indicates that all sounders are active (sounding).

**Note:** Sounder functionality is defined by your system configuration settings and stopped sounders that were activated by a fire alarm may restart automatically if another fire alarm event in a new zone is detected. Contact your fire alarm and evacuation system installation or maintenance contractor to confirm your configuration details.

### **Enabling or disabling a configured fire routing delay**

To enable a configured fire routing delay, press the Fire Routing Delay button. To disable the delay, press the button again.

**Note:** Availability of this feature is subject to configuration and its functionality may vary for each zone. Contact your fire system installation or maintenance contractor to confirm your configuration details.

### **Enabling or disabling a configured extended fire routing delay**

If configured, the extended fire routing delay is enabled or disabled at the same time as the standard fire routing delay.

The extended fire routing delay becomes the active delay when sounders are stopped (by pressing the All Sounders Stop button) and remain stopped when the standard fire routing delay time has elapsed.

The extended fire routing delay also becomes the active delay when an extended fire routing delay switch is activated while the standard fire routing delay elapses.

## Testing a zone

To test a zone, press the General Test button, and then press the corresponding zone button. The maximum number of zones that may be tested at the same time is four.

A zone in test is indicated as follows:

- General Test LED: On steady.
- Zone LED: On steady yellow.

When an alarm is activated in a zone in test:

- Zone alarm LEDs are steady or flashing, depending on the source of the alarm.
- Fire routing and other zone-dependent functions are not activated.
- Unless configured otherwise, the sounders are activated for 5 seconds and the All Sounders Start LED is steady (optional).
- Unless configured otherwise, the control panel buzzer sounds continuously (see note).
- The control panel will reset automatically after 5 seconds and clear alarms for the zone in test.

To end the test, press the Test button, and then press the Zone button again.

If there is a fire alarm in another zone not in test, the control panel responds to the alarm event as configured.

**Note:** The control panel buzzer and sounders may be configured not to sound when an alarm is activated in a zone being tested. Contact your fire system installation or maintenance contractor to confirm your configuration details.

## Disabling or enabling a zone

To disable a zone, press the General Disable button, and then press the corresponding Zone button.

A disabled zone is indicated as follows:

- General Disable LED: On steady.
- Zone LED: On steady yellow.

To enable the zone, press the General Disable button, and then press the Zone button again. If a disabled zone contains a device in alarm, the zone will not be enabled until the control panel is reset.

**Note:** No fire alarm or faults are indicated for disabled zones.

## Testing evacuation sounders

To test evacuation sounders, press the General Test button, and then press the Evacuation Area button.

Evacuation sounders can only be tested when the control panel is in standby state.

The test is indicated as follows:

- General Test LED: On steady.
- Evacuation Area LED: Flashing (3 seconds on, 5 seconds off) for the duration of the test.
- All Sounders Start LED: Flashing (3 seconds on, 5 seconds off) for the duration of the test (if all the evacuation areas are in test).
- Evacuation Area LED: On steady yellow.
- The evacuation sounders emit the audible test signal (3 seconds on, 5 seconds off) for the duration of the test, without any configured delay.

To end the test, press the General Test button, and then press the Evacuation Area button again.

If there is a fire alarm the fire panel will exit the test and respond to the alarm as configured.

### **Disabling sounders or enabling sounders**

To disable evacuation sounders, press the General Disable button, and then press the Evacuation Area button. Evacuation sounders can only be disabled when the control panel is in standby.

Disabled evacuation sounders are indicated as follows

- General Disable LED: On steady.
- Evacuation Area LED: On steady yellow.

To enable the sounders, press the General Disable button, and then press the Evacuation Area button again.

**Note:** Disabled evacuation sounders do not operate or indicate faults.

### **Testing fire routing**

**Note:** Always notify the fire brigade of any planned fire routing tests.

To test fire routing, press the General Test button, and then press the Fire Routing Start button.

The test is indicated as follows:

- General Test LED: On steady.
- Fire Routing Start LEDs: Flashing red (3 seconds on, 5 seconds off) and steady yellow.
- Fire routing outputs: Test signal (3 seconds on, 5 seconds off)

To end the test, press the General Test button, and then press the Fire Routing Start button again.

If there is a fire alarm the fire panel will exit the test and respond to the alarm as configured.

### **Disabling or enabling fire routing**

To disable fire routing, press the General Disable button, and then press the Fire Routing Start button.

Disabled fire routing is indicated as follows:

- General Disable LED: On steady.
- Fire Routing Start LED: On steady yellow.

To enable fire routing, press the General Disable button, and then press the Fire Routing Start button again.

**Note:** Disabled fire routing does not operate or indicate a fault if there is a fire alarm.

### **Disabling or enabling other features**

The following may also be disabled:

- All installed expansion boards (if configured)
- Fault warning output (if configured)

To disable any of these options, press the General Disable button for more than 3 seconds, press the 1 and 3 buttons to select the option to be disabled (the corresponding LED flashes), and then press Enter to confirm the disablement.

Disablement is indicated as follows:

- General Disable LED: On steady.
- Corresponding LED: On steady yellow.

To enable a disabled option, press the General Disable button for more than 3 seconds, press the 1 and 3 buttons to select the option to be enabled, and then press Enter.

**Note:** Disabled expansion boards do not operate or indicate faults.

# Maintenance

Perform the following maintenance tasks to ensure that your fire alarm system works correctly and complies with all required European regulations.

**Note:** Before performing any tests, ensure that fire routing is disabled or that the fire brigade has been notified.

## Quarterly maintenance

Contact your installation or maintenance contractor to perform a quarterly inspection of the fire alarm system.

This inspection must test at least one device per zone and verify that the control panel responds to all fault and alarm events. The control panel power supply and battery voltage should be checked.

## Annual maintenance

Contact your installation or maintenance contractor to carry out an annual inspection of the fire alarm system.

This inspection must test all system devices and verify that the control panel responds to all fault and alarm events. All electrical connections must be visually inspected to make sure that they are securely fastened, that they have not been damaged, and that they are appropriately protected.

## Cleaning

Keep the outside and inside of the control panel clean. Carry out periodic cleaning using a damp cloth for the outside. Do not use products containing solvents to clean the unit. Do not clean the inside of the cabinet with liquid products.

# Regulatory information

## European standards for fire control and indicating equipment

The 1X-E4 Series four-zone conventional fire and evacuation control panels have been designed in accordance with European EN 54-2, EN 54-4 and NEN 2575 standards.

In addition, the control panel complies with the following EN 54-2 optional requirements:

**Table 7: EN 54-2 optional requirements**

Option	Description
7.8	Output to fire alarm devices [1]
7.9.1	Output to fire alarm routing equipment
7.9.2	Alarm confirmation input from fire alarm routing equipment
7.11	Delays to outputs
7.13	Alarm counter [2]
8.4	Total loss of the power supply
8.9	Output to fault warning routing equipment [3]
10	Test condition

[1] Inputs and outputs on the optional 2010-1-SB expansion board do not support the optional requirement of EN 54-2 clause 7.8 and should not to be used for fire alarm devices

[2] Only for the 1X-E4-NL model

[3] NEN 2575 with EN 54-13 supervision operating mode only

## EN 54-13 European compatibility assessment of system components

These control panels form part of a certified system as described by EN 54-13 when installed and configured for EN 54-13 operation as described by the manufacturer in the corresponding installation documentation.

Contact your installation or maintenance contractor to determine if your fire system is compliant with this standard.


## European standards for electrical safety and electromagnetic compatibility

These control panels have been designed in accordance with the following European standards for electrical safety and electromagnetic compatibility:

- EN 60950-1
- EN 50130-4
- EN 61000-6-3
- EN 61000-3-2
- EN 61000-3-3

## European regulations for construction products

This section includes both regulatory information and a summary on the declared performance according to the Construction Products Regulation 305/2011. For detailed information refer to the product Declaration of Performance (DoP).

Certification	
Certification body	0832
Manufacturer	UTC CCS Manufacturing Polska Sp. Z o.o. Ul. Kolejowa 24. 39-100 Ropczyce, Poland  Authorized EU manufacturing representative: UTC Fire & Security B.V., Kelvinstraat 7, 6003 DH Weert, The Netherlands
Year of first CE marking	09
Declaration of Performance number	360-3100-1099
Product identification	See model number on product identification label
Intended use	See DoP point 3
Essential characteristics	See DoP point 9