KIDDE COMMERCIAL

2X-AT Series Quick Start Guide

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Firmware compatibility

This publication covers control panels with firmware version 5.5 or later.

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Contact information and product documentation

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Content

Important information ii
Limitation of liability ii
Product warnings and disclaimers ii
Open source software iii
Advisory messages iv

Introduction 1
Scope 1
Firmware compatibility 1
EN 54-21 compatibility 1
Product range 2

Product overview 3
The user interface 3
Front panel controls and indicators 5
Touchscreen controls and status indications 8

Using the touchscreen 11
Entering a password-protected user level 11
Viewing current events 12
Changing the date and time 13
Disabling a zone 14
Testing a zone 15
Adding an expansion board 16
Adding a custom logo to the standby screen 17
Updating the touchscreen display board firmware 18

Using maps 20
Adding maps to the control panel 20
Viewing the location of alarm and fault events 21

Technical specifications 23

Regulatory information 24

Important information

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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.

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.

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.

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.

Introduction

Scope

This is a supplementary publication to introduce the 2X-AT Series control panels.

For detailed information on installation, configuration, and operation, see the following 2X-A Series publications:

- 2X-A Series Installation Manual
- 2X-A Series Operation Manual

Read these instructions and all related documentation entirely before installing or operating this product.

Firmware compatibility

Information in this document covers control panels with the Kidde Excellence protocol and firmware version 5.5 or later. This document must not be used as a guide to operation of control panels with an earlier firmware version.

To check the firmware version of your control panel, see the Revision report in the Reports menu.

EN 54-21 compatibility

The 2010-2-DACT Digital Alarm Communicator Transmitter (DACT) expansion board is not compatible for installation in 2X-AT control panels.

For installations requiring EN 54-21 compliance, the UC240 UltraSync Communicator must be installed in a compatible control panel with a 2010-2-PIB Peripherals Interface Board installed (see Table 1 below).

Table 1: EN 54-21 compatibility

EN 54-21 required	UC240 connection	Compatible control panels
Yes [1]	Fire routing relay output via 2010-2-PIB as output to the UC240.	Large cabinet 2X-A/2X control panels with fire routing and fire protection controls (FB2, FB models).
Yes	Fire relay output as fire routing	Any 2X-A/2X control panel with fire routing and fire protection controls (FB2, FB models).
No	Event reporting only – Fire relay output to the UC240.	Any 2X-A/2X control panel variant.

[1] With fire routing delay and disable options.

See the UC240 UltraSync Communicator Installation Guide for information on how to install and configure the UC240 for use with 2X-AT control panels.

Product range

See the complete range of 2X-AT Series touchscreen control panels below.

All control panels include a language-independent user interface and a 7-inch full-colour touchscreen.

Table 2: Small cabinet control panels with up to 4 A output

Model	Description
2X-AT-F1-FB-S	One-loop addressable fire alarm control panel with fire routing and fire protection controls
2X-AT-F2-S	Two-loop addressable fire alarm control panel
2X-AT-F2-FB-S	Two-loop addressable fire alarm control panel with fire routing and fire protection controls
2X-AT-FR-S	Addressable fire alarm repeater panel
2X-AT-FR-FB-S	Addressable fire alarm repeater panel with fire routing and fire protection controls

Table 3: Large cabinet control panels with up to 6 A output

Model	Description
2X-AT-F2	Two-loop addressable fire alarm control panel
2X-AT-F2-FB	Two-loop addressable fire alarm control panel with fire routing and fire protection controls
2X-AT-FR	Addressable fire alarm repeater panel
2X-AT-FR-FB	Addressable fire alarm repeater panel with fire routing and fire protection controls

Table 4: Large cabinet control panels with up to 10 A output (-P variants)

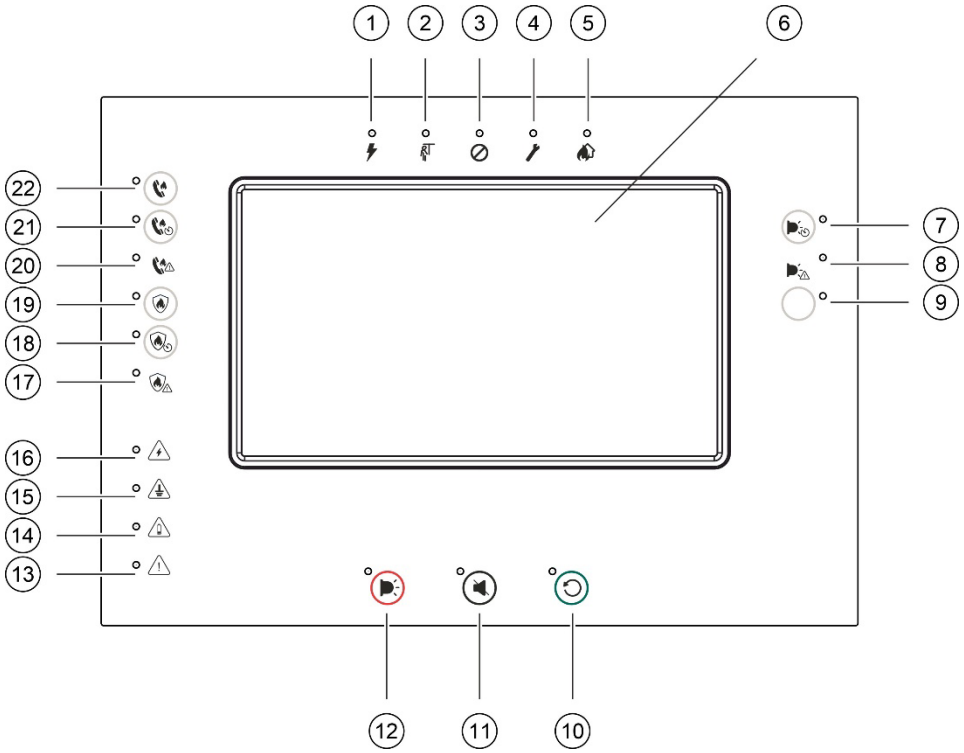
Model	Description
2X-AT-F2-P	Two-loop addressable fire alarm control panel
2X-AT-F2-FB-P	Two-loop addressable fire-P alarm control panel with fire routing and fire protection controls

Product overview

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

The user interface

Figure 1: User interface (with fire routing and fire protection controls)



1. Supply LED
2. General Test LED
3. General Disable LED
4. General Fault LED
5. Alarm LED
6. Touchscreen
7. Sounder Delay button and LED
8. Sounder Fault/Disabled/Test LED
9. Programmable output group start/stop button and LED
10. Reset button and LED
11. Panel Silence button and LED
12. Sounder Start/Stop Button and LED
13. System Fault LED
14. Low Battery LED
15. Earth Fault LED
16. Supply Fault LED
17. Fire Protection Fault/Disabled/Test LED
18. Fire Protection Delay button and LED
19. Fire Protection On/Acknowledged button and LED
20. Fire Routing Fault/Disabled/Test LED
21. Fire Routing Delay button and LED
22. Fire Routing On/Acknowledged button and LED

For a detailed overview of front panel controls and indicators, see “Front panel controls and indicators” on page 5.

Figure 2: The touchscreen (in standby)



1. Control pane (access, navigation, and configuration controls)
2. Status and screen settings pane (system and control panel status information, touchscreen configuration)
3. Main menu and message display area

For a detailed overview of touchscreen controls and status indications, see “Touchscreen controls and status indications” on page 8.

Front panel controls and indicators

Operational features described in this section are not available to all users (see the 2X-A Installation Manual for more information on user levels and access restrictions).

The table below includes information for the front panel controls and indicators for fire alarm and repeater panels.

Table 5: Front panel controls and indicators

Icon	Control/LED	LED colour	Description
	Supply LED	Green	Indicates that the system is powered up.
	General Test LED	Yellow	Indicates that one or more features or devices are being tested.
	General Disable LED	Yellow	Indicates that one or more features or devices are disabled.
	General Fault LED	Yellow	Indicates a general fault. The fault LED for the corresponding device or feature also flashes.
	Alarm LED	Red	Indicates a fire alarm. A flashing LED indicates that the alarm was activated by a detector. A steady LED indicates that the alarm was activated by a manual call point.
	Fire Routing On/Acknowledged button and LED	Red	Cancels a previously configured delay as it counts down and activates fire routing. A flashing LED indicates that fire routing has been activated. A steady LED indicates that the fire routing signal has been acknowledged by the remote monitoring equipment.
	Fire Routing Delay button and LED	Yellow	Enables or disables a previously configured fire routing delay. Cancels a delay as it counts down and activates fire routing. A steady LED indicates that a delay is configured and enabled. A flashing LED indicates that a delay is counting (fire routing is activated when the configured delay elapses or when the delay is cancelled). The countdown for an active (counting) fire routing delay or extended fire routing delay is also displayed on the touchscreen: • When a fire routing delay is counting (and has not been extended), the touchscreen displays FR in T1: xxx sec. • When an extended fire routing delay is counting (investigation time), the touchscreen displays FR in T2: xxx sec.
	Fire Routing Fault/Disabled/Test LED	Yellow	Indicates a fire routing fault, disablement, or test. A flashing LED indicates a fault. A steady LED indicates a disablement or a test.

Icon	Control/LED	LED colour	Description
	Fire Protection On/Acknowledged button and LED	Red	Cancels a previously configured delay as it counts down and activates fire protection. A flashing LED indicates that fire protection has been activated. A steady LED indicates that the fire protection signal has been acknowledged by the remote monitoring equipment.
	Fire Protection Delay button and LED	Yellow	Enables or disables a previously configured fire protection delay. Cancels a delay as it counts down and activates fire protection. A steady LED indicates that a delay is configured and enabled. A flashing LED indicates that a delay is counting (fire protection is activated when the configured delay elapses or when the delay is cancelled).
	Fire Protection Fault/Disabled/Test LED	Yellow	Indicates a fire protection fault, disablement, or test. A flashing LED indicates a fault. A steady LED indicates a disablement or a test.
	Sounder Delay button and LED	Yellow	Enables or disables a previously configured sounder delay. Cancels a delay as it counts down and activates sounders. A steady LED indicates that a sounder delay is configured and enabled. A flashing LED indicates that a sounder delay is counting (sounders are activated when the configured delay elapses or when the delay is cancelled).
	Sounder Fault/Disabled/Test LED	Yellow	Indicates a sounder fault, disablement, or test. A flashing LED indicates a fault. A steady LED indicates a disablement or a test.
	Programmable start/stop button and LED	Yellow	Starts or stops the output group associated with the programmable button. A steady yellow LED indicates that the output group associated with the button is active. A flashing yellow LED indicates that a delay is counting (the output group is activated when the configured delay elapses or when the delay is cancelled).
	Supply Fault LED	Yellow	Indicates a power supply fault. A flashing LED indicates a battery fault. A steady LED indicates a mains or mains fuse fault.
	Earth Fault LED	Yellow	Indicates an earth isolation fault.
	Low Battery LED	Yellow	Indicates that the control panel is running on battery power and that the remaining charge may be insufficient to guarantee continued operation.
	System Fault LED	Yellow	Indicates a control panel system failure or that one or more reported events (alarm, zone alarm, fault, condition, etc.) exceed the maximum limit of 512.

Icon	Control/LED	LED colour	Description
	Sounder Start/Stop button and LED	Red	The LED indicates what happens when the button is pressed: If the LED is on (flashing or steady), pressing the button silences the sounders. If the LED is off, pressing the button activates the sounders (if the control panel status and operating mode allow manual activation of sounders). The LED also indicates the status of the sounders: • Steady indicates that sounders are active (or will be activated shortly) • Flashing indicates that a delay is counting (sounders are activated when the configured delay elapses or when the delay is cancelled) • Off indicates that the sounders are off (or will be deactivated shortly) To prevent the immediate silencing of sounders when an alarm is first reported, the Sounder Start/Stop button may be temporarily blocked when a configured sounder delay is counting down. Depending on the size of the installation, processing commands to start or stop sounders may take a few seconds to travel through the system. This is why, for example, the LED may be steady but sounders may not initially be audible.
	Panel Silence button and LED	Yellow	Silences the control panel buzzer. A steady LED indicates that the buzzer has been silenced.
	Reset button and LED	Yellow	Resets the control panel and clears all current system events. A steady LED indicates that the control panel can be reset in the current access level.

Touchscreen controls and status indications

Access and navigation controls

Access and navigation controls are shown in the table below.

Table 6: Access and navigation controls

Icon	Control	Description
	Show Events	Tap to view active system events (alarms, alerts, faults, conditions).
	Language	Tap to change the control panel language.
	Support	Tap to view support information (if configured).
	Main menu	Tap to view the Main menu (Operator, Maintenance, Installer).

Control panel configuration controls

Control panel configuration controls are shown in the table below.

These controls are available when making configuration changes to the control panel (for example, changing the password).

The control panel configuration (and configuration revision) is only updated when configuration changes are applied by tapping Apply.

Table 7: Control panel configuration controls

Icon	Control	Description
	Save	Tap to save the current configuration change without applying it immediately.
	Apply	Tap to apply the current configuration change and all stored (saved) configuration changes. The control panel will reset automatically.
	Discard	Tap to discard all stored (saved) configuration changes that have not been applied.
	Exit	Tap to exit the configuration process without storing or applying the current configuration change.

When updating multiple configuration settings, we recommend that you save after each change and then apply all configuration changes together.

Screen settings controls

Screen settings controls are shown in the table below.

Table 8: Screen settings

Icon	Control	Description
	Screen settings	Tap to view the available touchsceen configuration settings (Update logo or Update firmware).
	Logo update	Tap to add or update a custom logo on the standby screen. See “Adding a custom logo to the standby screen” on page 17.
	Zone map update [1]	Tap to add or update a zone map package.
	Firmware update [2]	Tap to update the touchscreen display board firmware. See “Updating the touchscreen display board firmware” on page 18.

[1] Applies to compatible control panels with zone maps installed. See “Using maps” on page 20.
[2] This icon is only displayed when performing a control panel firmware update (Main menu > System update) with a jumper installed onto JP4 on the control panel PCB.

System and control panel status indications

System and control panel status indications are shown in the table below.

Note: These icons are not touch sensitive (you cannot tap an icon to change the configuration or access more information).

Table 9: System and control panel status indications

Icon	Status	Description
	Day mode (network)	This icon indicates that the primary sensitivity mode setting for control panels in the fire network is day mode.
	Day mode (control panel)	This icon indicates that the sensitivity mode for the local control panel is day mode. Other control panels in the fire network may have a different sensitivity mode setting.
	Night mode (network)	This icon indicates that the primary sensitivity mode setting for control panels in the fire network is night mode.
	Night mode (control panel)	This icon indicates that the sensitivity mode for the local control panel is night mode. Other control panels in the fire network may have a different sensitivity mode setting.
	Fire alarms	The number beside this icon indicates the number of zones with an active fire alarm. Alarm information for the first and last zones to report an alarm is displayed in the message display area.
	Faults	The number beside this icon indicates the number of active faults. Additional information is available by tapping Show Events.

Icon	Status	Description
	Conditions	The number beside this icon indicates the number of active system conditions (events). Additional information is available by tapping Show Events.
	Stand-alone	This icon indicates that the control panel is not connected to the fire network.
	Networked	This icon indicates that the control panel is connected to the fire network.
	Repeater	This icon indicates that the control panel is configured to operate as a repeater and is connected to the fire network.
	Detector alarm [1]	This icon indicates a detector alarm.
	Manual call point alarm [1]	This icon indicates a manual call point alarm.
	Manual call point alarm (sprinkler) [1]	This icon indicates a manual call point alarm (sprinkler).
	Manual call point alarm (“hausalarm”) [1]	This icon indicates a manual call point alarm (“hausalarm”). This is a local alarm with no fire routing activation.
	Map location [1][2]	This icon indicates that a map is available to view the location of an alarm or fault event.

[1] These icons appear in the message display area with the notification details.
[2] Applies to compatible control panels with zone maps installed. See “Using maps” on page 20.

Using the touchscreen

The following topics explain how to view events or perform basic configuration changes using the touchscreen.

For detailed information on all configuration options, see the 2X-A Installation Manual.

Notes:

- If the touchscreen is off, tap it to turn it on.
- If wearing gloves, ensure that they are compatible for use with touchscreen devices.

Entering a password-protected user level

Follow the steps below to enter a password-protected user level.

To enter a password-protected user level:

1. Tap Main menu.
2. Tap the User name field, and then select the user level (Operator, Maintenance, or Installer).

   Use the arrows on the left and right of the User name field to cycle through the available options.
3. Tap the password field, and then enter the password on the numeric keypad.
4. Tap Enter on the numeric keypad.
5. Tap Enter.

When a correct four-digit password has been entered, the touchscreen displays the Main menu for the corresponding user level.

To exit from a password-protected user level:

1. Tap Logout.

Viewing current events

Follow the steps below to view current system events (alarms, alerts, faults, and conditions). This operation can be performed at all user levels.

1. Tap Show Events
2. Tap Alarms, Alerts, Faults, or Conditions

The events for the selected category are displayed.

Note: If maps are installed (see “Using maps” on page 20), alarm and fault events include a map location icon to the right of the notification. Tap the icon to view the map.

Filtering conditions

By default all condition events are displayed.

- Tap Disabled to view only disablement events.
- Tap In Test to view only test events.
- Tap All to view all events.

Changing the date and time

Follow the steps below to change the date and time. This operation can only be performed at Maintenance or Installer user level.

To change the date and time:

1. Tap Main menu.
2. Tap Panel setup, and then tap Date and time.
3. Tap the Date_T field, and then enter the date and time.

   Enter the date using the format DD/MM/YY (for example, 20/04/23).

   Enter the time using the format hh:mm:ss (for example, 15:03:25).
4. If required, select YES for Firenet time sync to synchronize the date and time across all control panels in a fire network.
5. Tap Enter, and then tap OK.
6. Tap Back, and then tap Exit.

Disabling a zone

Follow the steps below to disable a zone. This operation can only be performed at Maintenance or Installer user level.

To disable a zone:

1. Tap Main menu, and then tap Disable/Enable.
2. Tap Zones.
3. Tap a zone to select it, and then tap the zone again to disable it.

   The zone status changes to DIS.
4. Tap Back to return to the previous menu or Exit to exit the menu.

Repeat to enable a disabled zone.

Testing a zone

Follow the steps below to test a zone. This operation can only be performed at Maintenance or Installer user level.

To test a zone:

1. Tap Main menu, and then tap Test.
2. Tap Zone Test.
3. Tap a zone to select it, and then tap the zone again to start the test.

   The zone status changes to TEST.
4. Tap Exit to exit the menu.

Repeat to end the test for the zone.

Adding an expansion board

Follow the steps below to add an expansion board to the control panel configuration. This operation can only be performed at Installer user level.

Caution: The 2010-2-DACT Digital Alarm Communicator Transmitter (DACT) expansion board is not compatible for installation in 2X-AT control panels – see “EN 54-21 compatibility” on page 1.

To add an expansion board:

1. Tap Main menu, and then tap Panel setup.
2. Tap Expansion boards.

   All expansion boards are displayed.
3. Select the expansion board that you want to add and tap to select Yes.
4. Tap Enter, and then tap Yes.
5. Tap OK, and then tap Save, Apply, Discard, or Exit.

If a configured expansion board is not detected by the control panel, a system fault is indicated.

Adding a custom logo to the standby screen

Follow the steps below to add a custom logo to the standby screen.

Note: This feature is not available when updating the touchscreen display board firmware.

To prepare a custom logo:

1. Prepare the graphics file using the Configuration Utility. This ensures that the final graphics file is compatible with the control panel touchscreen.

   The Configuration Utility accepts most common image file formats, including JPG, PNG, TIF, PNG.

2. Save the file as NormalLogo.jpg to the root of a USB flash drive.

   The application saves a 600 x 280 pixel JPG file.

Caution: Never save the logo file with a different name or in a different location on the USB flash drive. If a different file name or location are used, an error is generated when you try to add the logo to the standby screen.

To add a custom logo:

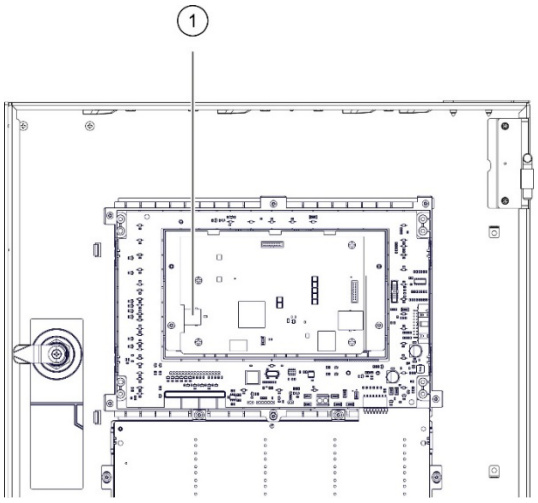
1. Open the control panel door and insert the USB flash drive with the custom logo into the USB type A connector on the touchscreen display board PCB (see Figure 3 below). Close the control panel door.
2. Tap Screen settings, and then tap Logo update.

   A pop-up window confirms the update.

3. Tap OK.

Remember to remove the USB flash drive.

Figure 3: Location of the touchscreen display board USB type A connector



1. USB type A connector

Updating the touchscreen display board firmware

Touchscreen display board firmware updates may be required from time to time. When required, these are distributed by your regional technical support office included with control panel firmware updates. This operation can only be performed at Installer user level.

Updating the touchscreen display board firmware is a two-step process:

1. Update the control panel firmware (Panel setup > System update).
2. Update the touchscreen display board firmware (Screen settings > Firmware update).

To update the control panel firmware:

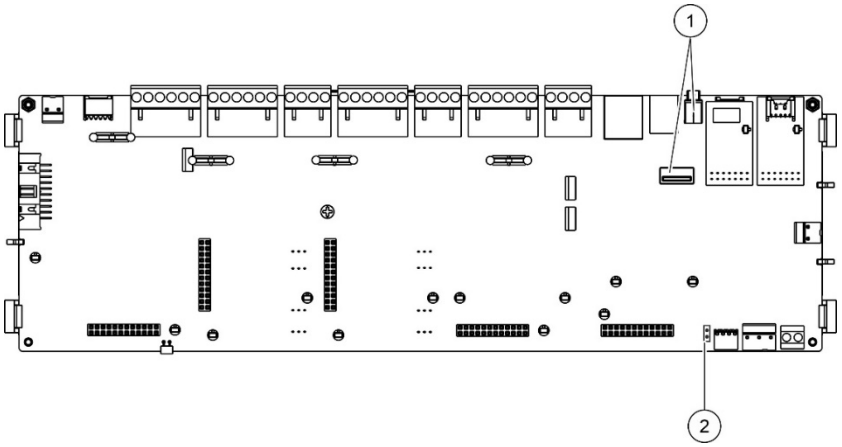
1. Select Panel setup from the Main menu, and then select System update.
2. When prompted, open the control panel door and install a jumper onto JP4 on the control panel PCB (see Figure 4 below), and then tap Reboot.

   The control panel reboots. Follow the on-screen instructions.
3. When prompted, insert the USB flash drive with the firmware update into either of the USB type A connectors, and then tap Continue.

   Use only FAT32 file system USB flash drives with a maximum capacity of 32 GB.
4. When prompted, remove the USB flash drive from the control panel main PCB.

Caution: Updating the control panel firmware may delete the current installation configuration data. Always back up your configuration data before updating the control panel firmware.

Figure 4: USB and JP4 connectors on the control panel PCB



1. USB connectors
2. JP4

To update the touchscreen display board firmware:

1. When prompted, insert the USB flash drive with the firmware update into the USB type A connector on the touchscreen display board PCB (see Figure 3 on page 17). Close the control panel door.
2. Tap Screen settings, and then tap Firmware update.

   A pop-up window confirms the firmware detected for installation on the USB flash drive.
3. Tap Continue.

   The update make take a few minutes. When completed a pop-up window confirms the update.
4. Tap OK.
5. Reset the control panel.

Remember to remove the USB flash drive.

Using maps

Use maps to visualize the zone locations for alarm and fault events. Maps are only available in control panels with firmware version 5.5 or later.

Adding maps to the control panel

Follow the steps below to add maps to the control panel.

Note: This feature is not available when updating the touchscreen display board firmware.

To prepare the maps package:

1. Prepare the maps package using the Design Tool. This ensures that the maps package is compatible with the control panel touchscreen.
2. Save the completed maps package to the root of a USB flash drive.

The maps package includes the following:

- The ZoneMap folder
- The ZoneMapInfo.xml file
- The map images in .webp format (IMG_0.webp, IMG_1.webp, etc.)

Notes:

- Only save the maps package to the root of the USB flash drive.
- Never change the default names for the folder, xml file, or images.
- The maximum size allowed for the maps package is 20 MB.

See the Design Tool application documentation for detailed information on how to prepare the maps package.

To add the maps package to the control panel:

1. Open the control panel door and insert the USB flash drive with the maps package into the USB type A connector on the touchscreen display board PCB (see Figure 3 on page 17). Close the control panel door.
2. Tap Screen settings, and then tap Zone Map Update.

   A pop-up window confirms the installation.
3. Tap OK.

Remember to remove the USB flash drive.

Once installed, maps are enabled by default. To update the maps at a later date, repeat the process – a new installation overwrites the existing installation.

Viewing the location of alarm and fault events

Once maps are installed, the map location icon is displayed to the right of an alarm or fault event (see Figure 5 below). Tap the icon to view the map.

The event zone is highlighted red for alarm events (see Figure 6 below) or yellow for fault events (see Figure 7 on page 22).

Note: The red or yellow highlight is steady or flashes depending on the design chosen when the maps package was created in the Design Tool.

If there is more than one map for the zone, use the arrow icons to scroll through the maps.

Figure 5: Alarm notification with map location icon

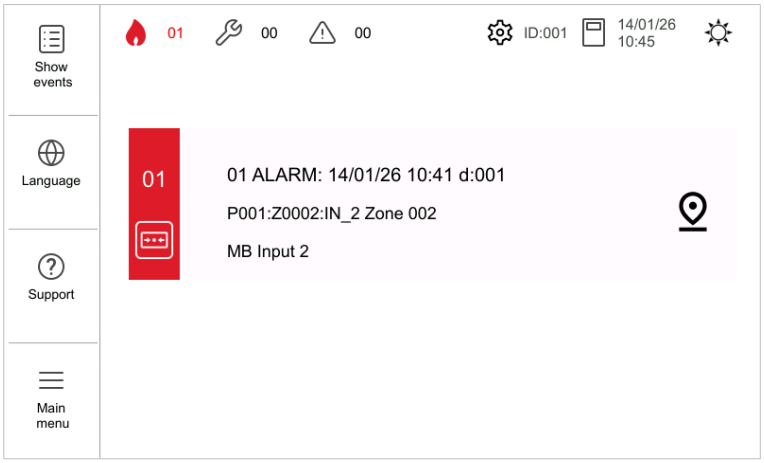


Figure 6: Map detail for alarm notification



Figure 7: Map detail for fault notification



Technical specifications

Touchscreen specifications

Display type	TFT LCD capacitive touchscreen
Size (active area)	156 x 88 mm
Resolution	800 x 480 pixels
Colour depth	24 bit RGB
Light source	18 x white LEDs

Regulatory information

European standards for fire control and indicating equipment

These control panels have been designed in accordance with European EN 54-2, and EN 54-4 standards.

In addition, they comply with the following EN 54-2 optional requirements.

Table 10: EN 54-2 optional requirements

Option	Description
7.8	Output to fire alarm devices [1]
7.9.1	Output to fire alarm routing equipment [2]
7.9.2	Alarm confirmation input from fire alarm routing equipment [2]
7.10	Output to fire protection equipment (type A, B, and C) [3]
7.11	Delays to outputs [4]
7.12	Dependencies on more than one alarm signal (types A, B, and C) [4]
7.13	Alarm counter
8.4	Total loss of the power supply
8.9	Output to fault warning routing equipment
9.5	Disablement of addressable points [4]
10	Test condition [4]

[1] Excluding repeaters and control panels operating in EN 54-2 Evacuation mode or NBN mode.
[2] Excluding repeaters, control panels without fire routing, and control panels with fire routing operating in NBN mode.
[3] Excluding repeaters and control panels without fire protection controls.
[4] Excluding repeaters.

European regulations for construction products

This section provides a summary on the declared performance according to the Construction Products Regulation (EU) 305/2011 and Delegated Regulations (EU) 157/2014 and (EU) 574/2014.

For detailed information, see the product Declaration of Performance (available at firesecurityproducts.com).

Table 11: Regulatory information

Conformity	CE
Notified/Approved body	0370
Manufacturer	KGS Manufacturing Poland Sp. z.o.o., Ul. Kolejowa 24, 39-100 Ropczyce, Poland. Authorized EU manufacturing representative: KGS Fire & Security B.V., Kelvinstraat 7, 6003 DH Weert, Netherlands.
Year of first CE marking	23
Declaration of Performance number Small cabinet (4 A power supply) Large cabinet (6 A power supply) Large cabinet (10 A power supply)	 00-3311-360-0001 00-3311-360-0002 00-3311-360-0003
Standards	EN 54-2:1997 + AC:1999 + A1:2006 EN 54-4:1997 + AC:1999 + A1:2002 + A2:2006 EN 54-21:2006 [1]
Product identification	See model number on product identification label
Intended use	See the product Declaration of Performance
Declared performance	See the product Declaration of Performance

[1] When used with the UC240 UltraSync Communicator in a compatible control panel with a 2010-2-PIB Peripherals Interface Board installed (see “EN 54-21 compatibility” on page 1).

EN 54-13 European compatibility assessment of system components

These control panels form part of a certified system as described by the EN 54-13 Standard 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 62368-1
- EN 50130-4
- EN 61000-6-3
- EN 61000-3-2
- EN 61000-3-3