



# 2X-A Series Quick Installation Guide

## Overview

This document includes quick installation information for your 2X-A Series Fire Alarm Control Panels running the 900 Series protocol.

For detailed installation information (including EN 54-13 requirements) and for configuration options, see the product installation manual.

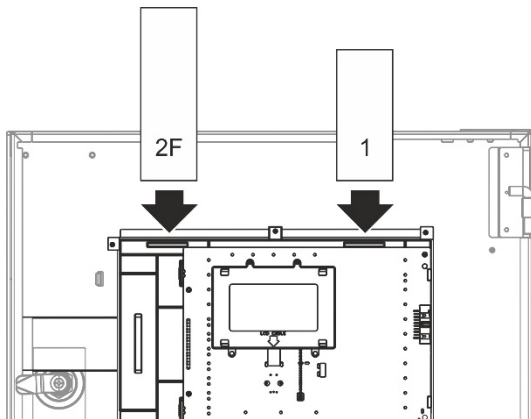
**WARNING:** Electrocution hazard. To avoid personal injury or death from electrocution, remove all sources of power and allow stored energy to discharge before installing or removing equipment.

**Caution:** Equipment damage hazard. This product is sensitive to electrostatic discharge (ESD). To avoid damage, follow accepted ESD handling procedures.

## Adding the menu inserts

Add the control panel interface menus as shown below.

Figure 1: Adding the menu inserts



The inserts are numbered 1 and 2F and are inserted at the locations indicated above (with the printed area facing the front of the control panel).

## Installing the cabinet

### Where to install the control panel

Install the control panel in a location that is free from construction dust and debris, and immune to extreme temperature ranges and humidity.

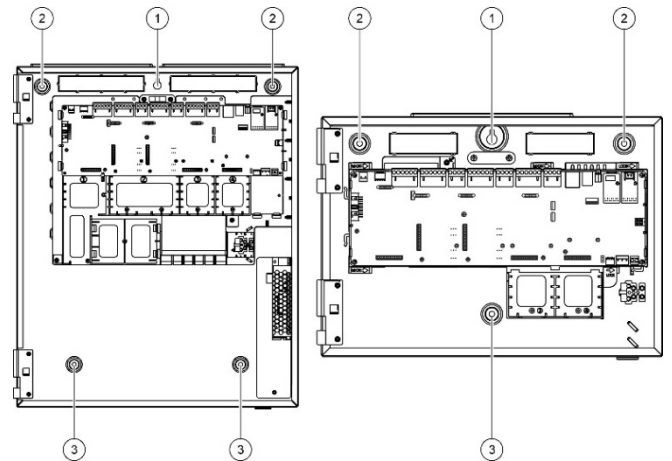
Provide enough floor and wall space to allow the control panel to be installed and serviced without any obstructions. The cabinet should be mounted so that the user interface is at eye level.

### Fixing the cabinet to the wall

Fix the cabinet to the wall using five M4 × 30 screws and five Ø 6 mm wall plugs, as shown below.

1. Hold the cabinet to the wall at the required installation height.
2. Ensure that the cabinet is level using the built-in spirit level and mark drill points on the wall.
3. Drill all required holes and insert a 6 mm wall plug into each.
4. Insert a screw in position (1) and hang the cabinet onto this screw.
5. Insert screws in positions (2) and tighten.
6. Insert screws in position (3) and tighten.
7. Tighten screw in position (1).

Figure 2: Mounting hole locations



## Connecting loops and loop devices

See Figure 3 on page 2 for an overview of typical fire system connections using a single Class A loop.

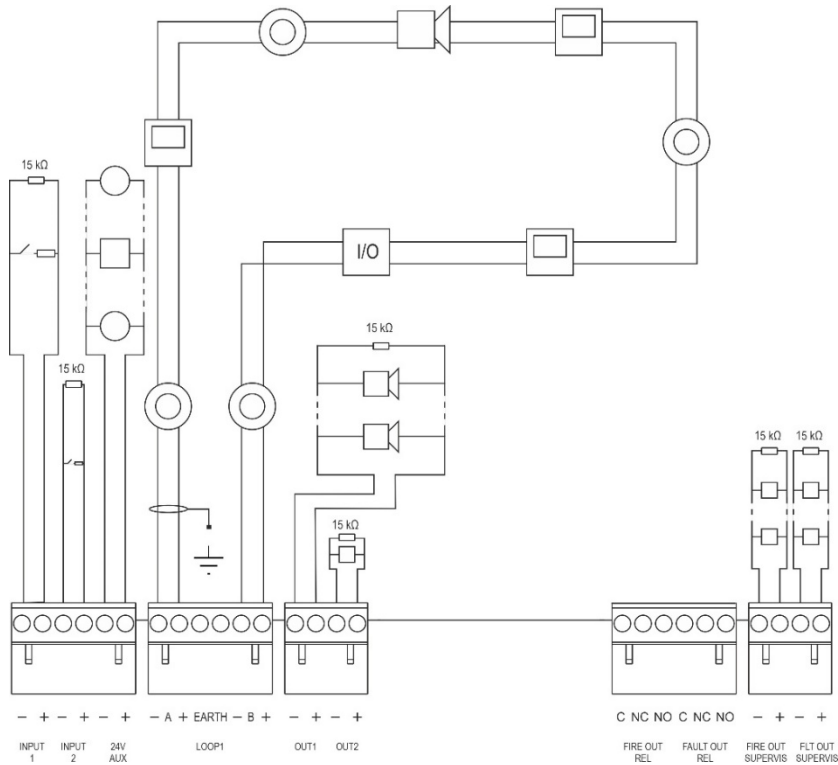
Use 0.13 to 3.31 mm<sup>2</sup> (26 to 12 AWG) shielded or unshielded twisted-pair cable with 52 Ω (26 Ω per wire) and 500 nF/km maximum.

Earth connection: Connect one side to the earth studs in the control panel cabinet (not to the loop EARTH terminal), the other side can be left floating.

Class A loops are supervised for open and short circuits. Terminate unused Class A loops A (+) to B (+) and A (-) to B (-). Each Class A loop can support up to 126 devices

See the product installation manual for Class B loop connection information.

Figure 3: Overview of typical fire system connections using a single Class A loop



## Connecting inputs and outputs

**Caution:** The following connection information does not apply to installations requiring EN 54-13 compliance. If EN 54-13 compliance is required, see the product installation manual.

All inputs and outputs (except 24V AUX) require a 15 kΩ end-of-line resistor for termination to detect open or short circuits. If an input or output is not used, install a 15 kΩ end-of-line resistor across the unused terminals to avoid an open circuit fault.

Connect input switches to INPUT1 and INPUT2 ( $62 \Omega \leq \text{active value} \leq 8 \text{ k}\Omega$ ).

When connecting outputs, observe polarity or install a 1N4007 diode or equivalent to avoid inverted activation issues.

See the product installation manual for input and output configuration options.

## Mains fuse and batteries

Use a T4A-250V mains fuse for both 110 VAC and 240 VAC operation. Check the product installation manual for 110 VAC operation requirements.

Depending on the model and power supply, the control panel requires two 12 V, 7.2, 12, 17/18, 36/38, or 65 Ah rechargeable sealed lead-acid batteries.

**Caution:** Not all compatible batteries can be used with all control panels. Some compatible batteries must be installed in an external battery box (not supplied).

For a list of compatible batteries and the battery installation location, see the product installation manual.

## Configuration

See your product installation manual for detailed configuration information. The default installer password is 4444.

## Contact information and product documentation

For contact information or to download the latest product documentation, visit [firesecurityproducts.com](https://firesecurityproducts.com).

## Product warnings and disclaimers

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