# 2X-AF1

## Addressable fire panel, 1 loop

## Overview

The new 2X-A series life safety control systems bring the speed and functionality of high-end intelligent processing to small to mid-sized addressable applications. Based on 2X series learned experience and with complete backwards compatibility, the new 2X-A features an attractive contemporary design that fits with any decor. With improved robustness, manufactured in metal, special plastics and easy electronics removal, it allows painting in any colour. The main controls are easily located using an improved and robust jog dial.

With high power loop addressable detection, a full line of easily configured option cards and modules, as well as USB and Ethernet® connectivity, these quick-to configure systems offer versatility that benefits building owners and life safety system installers alike.

## The Panel

The fire panels supplied in local language, with user interface, with 1 High Power Loop that supports up to 128 devices in 512 zones, have standard 2 supervised sounder/fire-routing outputs, which can be used as freely programmable outputs as well. In addition 2 conventional relay outputs and 2 supervised outputs, working in pair and dedicated to common fire and fault conditions, as well as 2 user configurable inputs for monitoring and control are available.

## Options

The panels supports one network board to create a maximum of 64 nodes / 256 loops network of fire panels and fire panel repeaters (including conventional fire panels and fire repeater panels up to a maximum of 64 conventional zones). Last but not least, in case seperate zone indications are required, a 20 or a 40 zone fire/fault LED indicator board can be mounted in the panel or repeater with ample space for custom text.

High loop power PAK available to increase the loop power from 500 mA to 800 mA.

Compatible with existing loop devices and network compatible with existing panels, repeaters (existing and new) and conventional panels.

## Approvals & compliance

- CE / CPD / EN54-2 / EN54-4 / EN54-21
- WEEE / RoHS compliant

## Details

- 1 High Power Loop with 500 mA per loop
- High loop power PAK to increase the loop power from 500 mA to 800 mA
- Up to 512 zones and 300 output groups
- Up to 40 LED Zone indicators for Fire and Fault with ample text space
- Auto configuration, setup wizards and default regional setup modes
- Ethernet port with TCP/IP for remote diagnostics, maintenance and programming
- EN54 compliant graphical LCD with icons and up to 256 zones
- Improved Jog Dial with 4 soft buttons for simple and intuitive user control
- Aesthetic pleasing design with robust painted steel door
- Easy removable door and chassis for quick and clean installation
- All pluggable connectors
- Auxiliary 24 VDC supply output with reset support
- 3 USB ports with memory stick support and RS232 for printer support
- Communication via UltraSync cloud, using EN 54-21 UC240 UltraSync communicator
- Integration in management software ATS8600, allowing integration with security systems and CMS
- 3 operator level menu structure (20 usernames and passwords)
- Email notification for events directly from the panel (4 user accounts)
- History log memory for 9999 events
- Backwards compatible, supporting site retrofit/upgrades, expansions, replacement

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## Technical specifications

### General

| | |
|---|---|
| User interface | Without fire Brigade controls |
| Maximum system capacity (device count) | up to 32512 |
| Network size (nodes) | up to 64 |

### Electrical

| | |
|---|---|
| Power supply type | VAC |
| Operating voltage | 110 / 240 VAC (+10%/-15%)<br>Mains supply cable type: 3 x 1.5 mm² (live, neutral, earth) |
| Current consumption | Nom. 0.6 / 1.3 A, Max. 1.5 A / 3.15 A |

### Loop

| | |
|---|---|
| Maximum loop capacity | 1 |
| Type and rating | 500 mA expandable to 800 mA at 37 VDC (28 to 37 VDC) |
| Cable rating | Recommended 2 core 1.5 mm² twisted pair ; 52 ohm / 500 nF ; max. 2 km |

### Zone

| | |
|---|---|
| Maximum zone capacity | up to 512 |

### Input

| | |
|---|---|
| Input quantity | 2 |
| Input type and rating | Supervised, maximum load 150 mA |
| Programmable | 2 |
| Termination | 15 kohm |

### Output

| | |
|---|---|
| Fire alarm signalling | 350 mA / 21 to 28 VDC (24 VDC nominal) |
| Fault signalling | 350 mA / 21 to 28 VDC (24 VDC nominal) |
| Notification | 8 sounder outputs |
| Supervisory voltage | Supervised, 4, 750 mA / 21 to 28 VDC (24 VDC nominal) |
| Auxilliary power | 1 resetable, 500 mA / 21 to 28 VDC (24 VDC nominal) |
| Programmable | Up to 8 (2 per loop board) / 21 to 28 VDC (24 VDC nominal) |
| Termination | 15 kohm |

### Standby battery

| | |
|---|---|
| Capacity | Max. 2 x 12 V / 18 Ah (use supplied cables) |
| Charging | 27.3 V at 20ºC ; 36 mV/ºC |
| Low battery warning threshold | 23.6 VDC ± 1% at 25ºC |
| Batteries supported in housing | Max. 2 x 12 V / 18 Ah (use supplied cables) |

### Physical

| | |
|---|---|
| Form factor | Large |
| Physical dimensions | 446 x 536 x 164 mm (W x H x D) |
| Net weight | 7.4 kg (without battery) |
| Shipping weight | 10.1 kg |
| Colour | White (RAL 9003) |
| Mounting type | Surface mount |
| Cable entries | 18 (20 mm) / 2 (20 mm) / 2 removable plates (top / bottom / back) |
| Material | Steel (painted) |

### Environmental

| | |
|---|---|
| Operating temperature | -5 to +40°C |
| Storage temperature | -20 to +50°C |
| Relative humidity | 10 to 95% noncondensing |
| Environment | Indoor |
| IP rating | IP30, indoor use only |

### Regulatory

| | |
|---|---|
| Compliancy | CE, REACH, RoHS 3, WEEE |
| Certification | AEAI, BOSEC, CPR |
| Standards | EN54-2, EN54-4, EN54-13, EN54-21 |
| Additional Approval | CoC |

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