

# INFINITY UL FIRE

Addressable Control Panel 2-16 loops



## PRODUCT OVERVIEW

The Infinity UL Fire is Firewatch's most advanced analogue addressable fire panel, designed for both current and future building needs. Highly intelligent, it integrates seamlessly into smart buildings and supports enhanced networking capabilities. Initially configured as a fire detection system, the panel can be customized for other control applications. Can network up to 128 panels, ideal for large sites like hospitals and industrial facilities. Its modular design enables easy expansion and system upgrades while supporting multiple protocols for flexibility in system design.

## Approvals



## MANUFACTURER'S SPECIFICATION

|                                      |   |
|--------------------------------------|---|
| <b>Finish</b>                        | Epoxy powder coated - Red (RAL 3002)  |
| <b>Construction</b>                  | 1.5mm mild sheet steel  |
| <b>Power Supply</b>                  | 240VAC or 120VAC  |
| <b>Power supply rating at 24V DC</b> | 5.25A (charges up to 60Ah) or 10.25A (charges up to 100Ah)                            |
| <b>Display</b>                       | Full color 800 x 480 LCD with resistive touch screen and automatic backlight dimming. |
| <b>Software zones</b>                | 2000  |
| <b>Software groups</b>               | Up to 5000 including up to 40,000 inputs or outputs (Dynamically assigned)            |
| <b>Cause and Effects</b>             | 5000  |
| <b>Event log</b>                     | 10,000 events, 1 second resolution. Filterable and printable                          |
| <b>Detection loops</b>               | 2 to 16 added 2 at a time (\$758-FW dual loop cards)                                  |
| <b>Detection loop current</b>        | 400 milliamps each  |
| <b>AUX 24V Output</b>                | 2; each rated at 900 mA   |
| <b>NACs</b>                          | 4; each rated at 2.5 A  |



# KEY FEATURES

- **UL864 Listed and FM Approved:** Ensures compliance with the latest fire safety standards.
- **Loop Versions:** Available in 2 to 8 loop or 2 to 16 loop configurations, catering to a wide range of installation needs.
- **400mA Loop Current:** Provides a 400mA current per loop, supporting multiple devices and sensors.
- **Programmable Notification Appliance Circuits (NACs):** Features 4 programmable NACs, supporting Class B or 2 Class A configurations, with built-in internal synchronization for alarm devices.
- **Power Supply Options:** Offers 5.25A or 10.25A power supply configurations to suit different installation requirements.
- **Programmable Inputs and Outputs:** Includes 3 programmable inputs and 5 programmable relay outputs for flexible system customization.
- **Full-Color Touch Screen:** Equipped with a 7-inch full-color resistive touch screen with an intuitive user interface for ease of operation.
- **Programmable Function Keys:** Allows for up to 24 programmable soft function keys, offering additional customization.

## MANUFACTURER'S SPECIFICATION

|                           |   |
|---------------------------|---|
| Programmable Inputs       | 3; designed to be activated by voltage-free contacts                                |
| Programmable Relay Output | 5; 30 V DC 1 A  |
| Network Connection        | Optional network card provides communication for networking 127 fire control panels |
| NAC Protocols             | System sensor, Wheelock, Gentex, Amseco   |
| Operating Temperature     | -5°C to + 51°C  |

## MANUFACTURER'S SPECIFICATION

| Specs                  | 2-8 loops (4 slot)  | 2-16 loop (8 slot)   |
|------------------------|---|--|
| Size (Standard)        | 420mm (W) x 590mm (H) x 153mm (D)   | 540mm (W) x 720mm (H) x 160mm (D)  |
| Size (Deep)            | 420mm (W) x 590mm (H) x 203mm (D)   | 540mm (W) x 720mm (H) x 212mm (D)  |
| Cable Entry (Standard) | 28 knockouts top, 19 knockouts back, 1 knockout each side, 2 knockouts bottom | 38 knockouts top, 25 knockouts back, 2 knockouts each side, 2 knockouts bottom |
| Cable Entry (Deep)     | 38 knockouts top, 19 knockouts back, 1 knockout each side, 2 knockouts bottom | 50 knockouts top, 25 knockouts back, 2 knockouts each side, 2 knockouts bottom |



## KEY FEATURES

- **Hard-Wired Inputs/Outputs:** Includes dedicated hard-wired fire and trouble routing inputs and outputs for reliable system integration.
- **Modular and Expandable:** The panel's modular electronics design allows for easy system expansion.
- **High Address Capacity:** Supports up to 400 sub-address points per loop, providing up to 800 per loop module for extensive device support.
- **Inverted Inputs and Outputs:** Offers the option to invert inputs and outputs for flexible configurations.
- **Advanced Cause and Effect Programming:** Supports 5000 programmable cause-and-effect sequences, with over 50,000 inputs and outputs, enabling complex fire response strategies.
- **Networking Capabilities:** Can be networked with other panels and systems, offering programmable functionality for large-scale installations.
- **USB Programming:** Allows programming via a USB port to a PC or memory stick for easy updates and configuration.
- **Ockular Graphical Fire Management System:** Compatible with the Ockular graphical fire management system, providing advanced monitoring and control.

## ADDITIONAL COMPONENTS

**Dual Loop Panel Module (\$758):** Monitors the status of loop devices and provides updates to the panel processor. It holds configurations and operates independently in case of a system failure.

**16 Channel I/O Interface Card (\$560):** Expands input/output capabilities with 16 configurable channels, contributing to the panel's cause-and-effect logic.

**Media Gateway Panel Module (\$788):** Enables IP or dial-up connectivity for remote monitoring and integration applications.

**8 Channel Relay Panel Module (\$791):** Provides eight programmable relay contacts, useful for applications requiring additional relay outputs for signaling or control.

**Network Module (\$723):** Facilitates high-speed communication between panels, offering tolerance to circuit faults.



## ADDITIONAL COMPONENTS

**Printer (S768):** A thermal printer mounted on the fascia, printing real-time fire events on heat-sensitive paper. It includes a front-loading feature for easy paper replacement and alerts when paper runs out.

**Zone LED Module (S771):** Contains 48 LEDs for visual indication of zone status, with support for up to three modules (144 zone LEDs total).

**4 Channel NAC Panel Module (S793):** Provides four programmable, supervised NAC outputs, supporting Class A or B configuration for alarm signaling (future enhancement).

**8 Channel Conventional Zone Panel Module (S792):** Offers eight supervised detection circuits (Class B) for conventional detectors, with each pair configurable for Class A circuits (future enhancement).

**16 Channel I/O Interface Panel Module (S772):** Provides the same functionality as the 16 Channel I/O Interface Card, in a convenient plug-in module format (future enhancement).

## PRODUCT MODEL NUMBERS

IF102A1-10 - Infinity 2-8 loops, 5.25A, 0 Zone LED, No printer.

IF102A1-13 - Infinity 2-8 loops, 5.25A, 0 Zone LED, Printer.

IF102A1-14 - Infinity 2-8 loops, 5.25A, 48 Zone LED, Printer.

IF103A1-10 - Infinity 2-8 loops, 10.25A, 0 Zone LED, No printer.

IF103A1-13 - Infinity 2-8 loops, 10.25A, 0 Zone LED, Printer.

IF103A1-14 - Infinity 2-8 loops, 10.25A, 48 Zone LED, Printer.

IF302A1-10 - Infinity 2-8 loops, Deep Enclosure, 5.25A, 0 Zone LED, No printer.

IF302A1-13 - Infinity 2-8 loops, Deep Enclosure, 5.25A, 0 Zone LED, Printer.

IF302A1-14 - Infinity 2-8 loops, Deep Enclosure, 5.25A, 48 Zone LED, Printer.

IF303A1-10 - Infinity 2-8 loops, Deep Enclosure, 10.25A, 0 Zone LED, Printer.

IF303A1-13 - Infinity 2-8 loops, Deep Enclosure, 10.25A, 0 Zone LED, No printer.

IF303A1-14 - Infinity 2-8 loops, Deep Enclosure, 10.25A, 48 Zone LED, Printer.

IF903A1-10 - Infinity 2-16 loops, Deep Enclosure, 10.25A, 0 Zone LED, No printer.

IF903A1-13 - Infinity 2-16 loops, Deep Enclosure, 10.25A, 0 Zone LED, Printer.

IF903A1-14 - Infinity 2-16 loops, Deep Enclosure, 10.25A, 48 Zone LED, Printer.