I-FIRE™ Wireless Fire suppression system for installers/technicians by X-Tinguish®

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**Wireless Temperature Sensor**

- Monitor one or up to three temperature sensors (FG3100+)
- (The sum of all sensor cable lengths, cannot exceed 50').
- Wireless Wi-Fi 802.11 b/g/n
- **Wi-Fi transmission range up to 250ft**
- Temperature logging (data sent via email)
- AC Power Failure Notification, if AC is power source.
- No sensor calibration needed
- Small data packets provide long battery life
- Built-in web server for configuration and remote monitoring
- Email/Text alerts for high/low temperature alerts, and low battery alerts.
- Temperature probe range: -67°F to 257°F (-55°C to +125°C)
- Temperature probe accuracy: ±0.5°C (from -10°C to +85°C)
- Longer lead length temperature probes available - Sensors are interchangeable and need no calibration
- Temperature status can control relay on the X-Tinguish FG2100 device
- Powered by external DC power adapter or two AA batteries (battery usage for backup/low power applications only)
- Protocols supported: HTTP, XML, SSL, SMTP, Modbus TCP/IP, Remote Services, Data Logging
- Simple and easy to use.

**Wireless Single Relay**

- Built-in high current relay
- Optically-isolated digital input
- Up to 4 temperature sensors
- Wireless Wi-Fi 802.11 b/g/n
- Antenna included
- **Transmission range up to 250ft**
- Logging of the input temperature, relay state, and Vin
- **Basic script support for advanced flexibility**
- Customizable web-based Control Page
- Send email alerts based on user-defined conditions*
- Supports encrypted email servers, such as Gmail
- Static or DHCP IP address configuration
- Real-Time clock with NTP server synchronization
- Automatic daylight savings and leap year adjustment
- No software required
- XML, Modbus/TCP and Remote Services
- **Field updatable**
- Removable terminal connectors for easy installation
- Rugged DIN-Rail/wall-mountable enclosure
- 5-Year Warranty
* Up to 8 email addresses at once.
This Dashboard is viewable with any internet connection. These settings are user programmable. We have them set in this example to mimic a Rate of Rise (ROR) heat detector. This setting will monitor digitally, all the way down to the incipient stage of a fire and and report every second, 24/7.

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I-FIRE™ Wireless Fire suppression system is a component-based system. It is modular and expandable.

The system operates on both AC and DC power. The system requires a DC power adapter to operate the single wireless relay. The wireless temperature module can be powered by either on-board batteries (2 AA) or a 5V DC adapter. The Fire suppression panel is powered by (2) CR123 Lithium batteries or it can be outfitted with a 6V DC power supply.

The system is comprised of a fire suppression control panel, an X-Tinguish® XT-3000 Aerosol Fire Suppression Generator, the FG3100 Wireless Single Relay with antenna, the FG1000 Wireless temperature sensor and power cable for the aerosol generator. The system has optional equipment consisting of additional aerosol generators and power supplies.

The FG3100 and Fire Suppression Control panel are contained within a single IP66 rated enclosure for ease of use.

How does the system work?

The Fire Suppression Control Panel is wired directly to the Wireless Single Relay and the XT-3000 Aerosol Fire Suppression Generator. The FG3100 Wireless Single Relay is programmed to receive a signal from the FG1000 Wireless Temperature Sensor. This signal is transmitted every second, 24/7 to the FG3100. When the ambient temperature surrounding the FG1000 sensor detects a rise in the temperature, the sensor is pre-programmed to respond at two different levels. The first response is a warning response, an email is sent to the user and the on-line dashboard will change from Green (safe) to Yellow (warning). A second response level is for the deployment of the aerosol fire suppression generator. This response also triggers an email (up to 8 respondents) and the on-line dashboard changes from Yellow (warning) to Red (deployed).

I-FIRE™ Wireless Fire suppression system (continued)

The system is both automatic and manual. It contains a button that when pushed, will immediately deploy the system’s aerosol fire suppression agent without delay.

The system is equipped with a set of dip-switches that can delay activation from 5-30 seconds, depending on how they are programmed, and the users needs.

The FG1000 Wireless Temperature Sensor can be located up to 250’ away from the FG3100 Wireless Single Relay and still operate fully. The FG1000’s sensor cable has a maximum length of 50’. The only hardwiring required with the I-FIRE™ Wireless Fire suppression system would be the 18g power cabling between the FG3100 and the XT-3000 generator. This cable can be any length. We suggest 25’ to 30’.

The FG1000 can be carried on your person and then set into an area where you may expect a fire to start depending on the work you are doing. The FG3100 must be plugged into an AC outlet. For the system to work properly, a LAN must be available. Quick start instructions for network connections are supplied with every system.
How the system works