

# Flex 410

## Fire Alarm Control Panel with Digital Communicator



### Description

The Flex 410 is a flexible fire alarm control panel for educational, commercial, and industrial applications in both new and existing buildings. The Flex 410 can be readily used in retrofit applications to meet revised local fire and life-safety codes. It is ideal for small-to medium-sized installations such as hotels, schools, correctional institutions, health care facilities, small office buildings, and manufacturing plants. The Flex 410 offers ten zones of Class B (Style B) initiation that can be configured as five Class A (Style D) zones. It is expandable up to 20 zones Class B or 10 zones Class A for larger applications. The Flex 410 has a complete line of supervised accessories that provide remote annunciation and auxiliary zone control expansion. Using microprocessor-based control, the

Flex 410 offers a built-in UL-Listed communicator designed for applications requiring smoke detection, manual pull stations and sprinkler supervision. The communicator features an easy-to-read two-line LCD display with programmable readout and user-friendly tactile keys. The Flex 410 cabinet can be flush- or surface-mounted.

A plexiglass door and dress panel is available for applications where deadfront is a requirement. Flex 410 software includes a provision to allow control functions to be non-password-protected when the deadfront option is used.

### Flex 410 Power Supply

The Flex 410 power supply is a fully regulated, high-efficiency, 6-amp supply that furnishes precise system operating and signal power. It is equipped with a battery charger which maintains the secondary power source. The power supply is monitored by the microprocessor to ensure adequate power levels are available at all times. The supply powers four on-board notification appliance circuits.

### Architectural/Engineering Specifications

The system shall contain a fire alarm control panel to supervise and operate heat and smoke detection devices, manual fire alarm devices, alarm notification devices, and visual annunciators. The system shall also be capable of monitoring for sprinkler supervisory and waterflow conditions. The system must have a built-in UL-Listed fire communicator that can be enabled/disabled as needed on a per-job basis. In addition, the system will sound alarms locally for purpose of evacuation.

### Features

- 10 zones Class B (Style B), or 5 Class A (Style D) zones. **Expandable to 20 zones Class B or 10 zones Class A.**
- Supervised zone expanders and I/O modules can be mounted remotely from the main control panel.
- All zones are compatible with two-wire or four-wire detectors.
- Built-in Digital Alarm Communicator Transmitter (DACT).
- Four Notification Appliance Circuits (NACs).
- Eight selectable/programmable output patterns for NACs.
- Three programmable general-purpose relays.
- Features such as programmable smoke verification, pre-alarm delay, cross-zoning, and enhanced verification mode can minimize false alarms.
- Programmable from the built-in control panel touchpad, remote annunciator, or Windows®-based downloading software.
- Direct-connect port for on-site uploading/downloading with Windows®-based downloading software.
- Event History Buffer (150 events) with time-and-date stamp.
- Built-in walk test feature.

### Listings

Listings and approvals below apply to the basic Flex 410 control panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

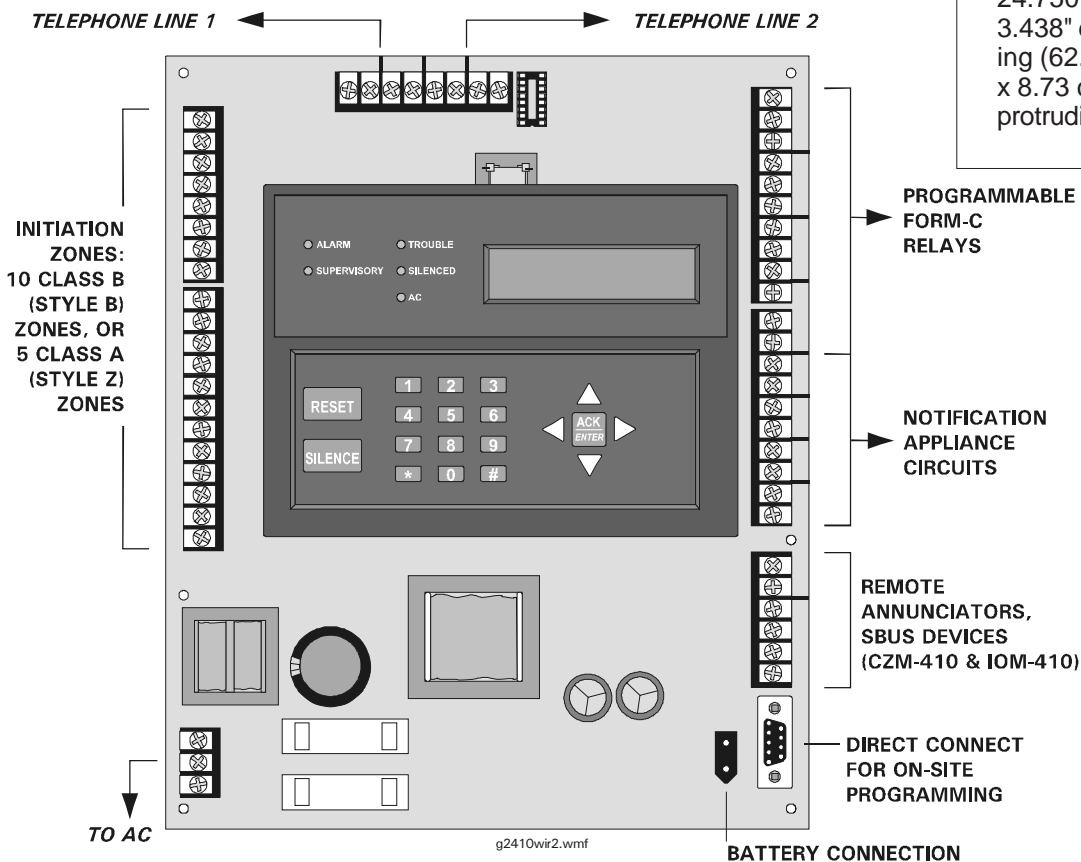
- UL Listed: file S521.
- CSFM approved: file 7165-1288:182.

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## Ordering Information

<b>F410</b>	Flex 410 fire alarm control panel, 10 zones, 24 VDC, up to 20 zones available by adding CZM-410 zone expander.
<b>CZM-410</b>	Zone expander for Flex 410. The expander adds 10 additional Class B zones or 5 additional Class A zones.
<b>IOM-410</b>	I/O relay, supervisory status module for Flex 410.
<b>RAN-400</b>	Remote annunciator for Flex 410.
<b>151321</b>	<i>Flex 410 Installation and Maintenance Manual.</i>
<b>CAB400-A</b>	Cabinet to house zone expander module F5217.
<b>PLEX-2GA</b>	Plexiglass door and deadfront kit.

## Wiring Diagram, Overview



## Specifications

*Operating temperature:* 32°F to 120°F (0°C to 49°C).

*Operating voltage:* 24 VDC.

*Primary AC:* 120 V<sub>RMS</sub> @ 60 Hz, 2.0 A.

*Total DC load:* 6.0 A.

*Standby current draw (panel):* 140 mA.

*Alarm current draw (panel):* 460 mA.

### Dimensions, overall

26.375" high x 17.188" wide x 4.0" total depth (67 cm high x 43.66 cm wide x 10.16 cm total depth).

### Dimensions, flush-mounted

24.750" high x 14.500" wide x 3.438" deep with 0.625" protruding (62.9 cm high x 36.8 cm wide x 8.73 cm deep with 1.588 cm protruding).

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