

by Honeywell

## Description

The Flex 410 is a ten zone fire alarm control panel (FACP) expandable to twenty or thirty zones using optional CZM-400 zone expander module(s). The Flex 410 is ideal for a wide range of different sized installations such as hotels, schools, correctional institutions, health care facilities, small office buildings, and manufacturing plants.

Initiating device circuits (IDCs) for the Flex 410 can be programmed as either ten Class B (Style B) or five Class A (Style D) circuits. This is expandable to either twenty Class B (ten Class A), or thirty Class B (fifteen Class A) IDC circuits. The panel is compatible with a variety of conventional two-wire smoke detectors, four-wire smoke detectors, and notification appliances. This includes System Sensor *i<sup>3</sup>*™ Series microprocessor-based detectors with advanced features like drift compensation, maintenance alert and freeze warning. (See Appendix A of the Flex 410 Installation & Operations Manual PN 151321 for a list of compatible devices.)

Outputs include four Class B (Style Y) or two Class A (Style Z) supervised notification appliance circuits (NACs) to annunciate alarm conditions. NAC circuits support single circuit synchronization, regulated. Three programmable auxiliary relay outputs can be programmed to activate (for all zones or individual zones): pre-alarm, fire alarm, auxiliary alarm, alarm by zone and system or circuit troubles (e.g., loss of AC, low battery, communication failure, phone line trouble, fire drills, and NAC trouble).

The Flex 410 includes a built-in digital alarm communicator (DACT) to report status to a central station. A user-friendly, two-line LCD display and tactile keypad makes system programming and control easy. The Flex 410 cabinet can be flush- or surface-mounted and a Plexiglas window/dead-front door kit is available where jurisdictions require. The fully regulated, efficient 6-amp power supply with charger ensures adequate power is available at all times.

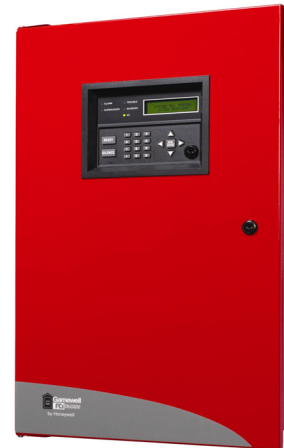
The Flex 410 fire alarm control panel is listed to UL® Standard 864, 9th Edition.

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## 10 Zone Expandable Conventional Fire Alarm Control Panel



F410

## Features

- 10 Class B (Style B) or 5 Class A (Style D) initiating device circuits (IDCs), expandable up to 30 Class B or 15 Class A IDCs with optional zone expander(s)
- Supervised zone expanders and I/O modules can be mounted remotely in optional accessory cabinet
- All zones compatible with 2- and 4-wire detectors
- Built-in digital alarm communication transmitter (DACT) with dual phone line monitors
- 4 Class B (Style Y) or 2 Class A (Style Z) supervised notification appliance circuits (NACs)
- Selectable/programmable NAC output patterns:
  - ADA compliant strobe synchronization
  - ANSI audible signals as required by NFPA 72
  - Single Stroke BI
  - Constant output
  - California code
  - March code

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An ISO 9000-2000 Company

SIGNALING



S521



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## Features (continued)

- Built-in 2-line, 32-character LCD display with easy-to-read English language readouts
- 3 programmable general purpose relays
- Built-in walk test
- Programmable from keypad, remote annunciator, or using direct connect port for on-site downloading with SmartProgram 400 software (Windows®-based)
- Programmable features to minimize false alarms: smoke verification, pre-alarm delay, cross-zoning, and enhanced verification
- Municipal box service and polarity reversal signaling
- Programmable date settings for Daylight Savings Time, and clock source setting options for 50 Hz, 60 Hz or internal clock

## Options

- GWCZM-400** Each GWCZM-400 zone expander provides the control panel with ten additional Class B (Style B) zones or five Class A (Style D) zones. The GWCZM-400 connects to the control panel via the panel SBUS and is supervised and power limited. Up to two zone expanders can be used per panel. Mounts in FACP or into a GWCAB400-A accessory cabinet.
- GWIOM-410** This status display module provides outputs and control functions for remote annunciation of alarm, trouble, and supervisory for each zone. The system can supervise up to eight GWIOM-410 status display modules. Mounts in FACP or into a GWCAB400-A accessory cabinet.
- GWRAN-400** The GWRAN-400 remote annunciator can perform all system control operations. It also provides trouble and alarm information and can be used for programming. The FACP can support up to four GWRAN-400 remote annunciators. Mounts in dual gang electrical box.
- GWCAB400-A** This accessory cabinet is used for mounting GWCZM-400 zone expander and/or GWIOM-410 status display module.
- GWPLEX-2GA** This door option combines a dead-front panel with a clear bicarbonate window to limit access to the control panel. Used for jurisdictions where single button operation is required.

## Specifications

<b>AC Power</b>	120 VAC, 60Hz, 3 A
<b>Battery</b>	Max. charging circuit: 27.4 VDC@ 0.75A Max. charger capacity: 33 Ah (two 18Ah batteries fit inside FACP)
<b>Operating Power</b>	24 VDC operating voltage
<b>Total DC Load</b>	6 A
<b>Initiating Device Circuits (IDC)</b>	(2-wire smoke): 17.5- 27.4 VDC Alarm current draw (panel): 460 mA Short circuit current: 95 mA maximum Standby current draw (panel): 140 mA Maximum impedance: 50 ohms
<b>Accessory Power</b>	27.4 VDC, 1 A
<b>Notification Circuits (NAC)</b>	27.4 VDC, 3 A max/output (6 A total) Maximum line impedance: 1.5 ohm
<b>Programmable Relays</b>	2.5 A, 24 VDC (inductive), 5 A, 24 VDC (resistive), non-power limited
<b>Operating Range</b>	32° F to 120° F (0° C to 49° C)
<b>Flex 410 Cabinet</b>	26 3/8" x 17 3/16" x 4" (67 x 44 x 10 cm) (H x W x D)
<b>Accessory Cabinet</b>	10 3/8" x 10 3/16" x 3" (26 x 26 x 8 cm)

## Ordering Information

Part Number	Description
<b>GWF410</b>	Flex 410 FACP, 10 zones, expandable to 20 and 30 zones, 120 VAC
<b>GW151321</b>	Flex 410 Installation & Operation Manual
<b>Options:</b>	
<b>GWCZM-400</b>	Zone expander module; adds 10 Class B or 5 Class A circuits
<b>GWIOM-410</b>	Input / output relay, supervisory status module
<b>GWRAN-400</b>	Remote annunciator for Flex 410
<b>GWCAB400-A</b>	Accessory cabinet for mounting GWCZM-400 or GWIOM-410
<b>GWPLEX-2GA SP400</b>	Dead-front door with Plexiglas window SmartProgram 400 for remote programming of the Flex 410 using a PC (available only to authorized distributors at ESD extranet)

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