Flex Series
GWF410

Gamewell
FCI FIRE CONTROL INSTRUMENTS

by Honeywell

10 Zone Expandable Conventional Fire Alarm Control Panel

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 $i^{3™}$ 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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GWF410

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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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 supervisories 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

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

Ordering Information

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