Honeywell | Conventional Control Panels

Flex Series, Flex 410

10 Zone Expandable Conventional Fire Alarm Control Panel

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

You can program the Initiating Device Circuits (IDCs) for the Flex 410 as either ten Class B (Style B) or five Class A (Style D) circuits. This panel 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 i3™ Series microprocessor-based detectors and offers advanced features like drift compensation, maintenance alert and freeze warning. (See Appendix A of the Flex 410 Installation & Operations Manual, P/N 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
- system or circuit troubles such as the following:
  - loss of AC
  - low battery
  - communication failure
  - phone line trouble
  - fire drills
  - NAC trouble

The Flex 410 includes a built-in Digital Alarm Communicator (DACT) to report the status to a central station. A user-friendly, two-line LCD display and keypad makes system programming and control simple. The Flex 410 cabinet can be installed as flush- or surface-mounted and a Plexiglas window/dead-front door kit is available where jurisdictions require it. 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.



Flex 410

FEATURES & BENEFITS

- Offers 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 are compatible with 2- and 4-wire detectors
- Built-in digital alarm communication transmitter (DACT) with dual phone line monitors
- Includes four Class B (Style Y) or two Class A (Style Z) supervised notification appliance circuits (NACs)
- Uses built-in walk test
- Provides the following 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
- Municipal box service and polarity reversal signaling
- Displays built-in 2-line, 32-character LCD display with easy-to-read English language readouts
- Includes three programmable general purpose relays
- Programmable from keypad, remote annunciator, or using direct connect port for on-site downloading with SmartProgram 400 software (Windows®-based)
- Programmable features to minimize the following:
  - false alarms
  - smoke verification
  - pre-alarm delay
  - cross-zoning
  - enhanced verification
- 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 Class A power-limited. Up to two zone expanders can be used per panel. It mounts in an 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. It mounts in an 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. It mounts in a 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. It is used for jurisdictions where single button operation is required.

Ordering Information

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)

Flex Series, Flex 410 Technical Specifications

SYSTEMS

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: 2.5 A, 24 VDC (inductive), 5 A, 24 VDC

Relays: (resistive), non-power limited

Operating Range: 32° F to 120° F (0° C to 49° C)

Flex 410 Cabinet: 26 3/8"H x 17 3/16"W x 4"D (67 x 44 x 10 cm)

Cabinet: 10 3/8" x 10 3/16" x 3" (26 x 26 x 8 cm)

Temperature and Humidity Ranges

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

STANDARDS

The Flex Series, 410 panel is designed to comply with the following standard:

UL Standard: S521

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

UL: S521

CSFM: 7165-1703: 0162

ISO 9001 Certification

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