

Flex Series, GWF 402/404 Panels

Two and Four Zone Conventional Fire Alarm Control Panels

The Flex 402 is a two zone fire alarm control panel (FACP) and the Flex 404 is a four zone FACP. These control panels provide reliable fire signaling protection for small to medium-sized retail, office, multi-family, or other similar commercial or institutional buildings.

The Initiating Device Circuits (IDCs) for the Flex Series panels are categorized as Class 2 Power-Limited and operate in Class B (Style B). Each panel is compatible with the following types of conventional input devices.

- two-wire smoke detectors
- four-wire smoke detectors
- water flow devices
- pull stations
- tamper switches

In addition, each panel is compatible with other normally-open contact devices. These devices include the System Sensor i3™ Series microprocessor-based detectors with advanced features like drift compensation, maintenance alert and freeze warning.

Note: For a listing of compatible devices, refer to the Device Compatibility Document P/N: 52195.

The outputs include one Notification Appliance Circuit (NAC) on the Flex 402 and two NACs on the Flex 404. NACs are categorized as Class 2 power-limited and operate in Class B (Style Y). Each FACP has a Form-C alarm and trouble relay and 24 VDC special applications resettable power. In addition, the Flex 404 has a Form-C Supervisory relay and a special application non-resettable power output. The FACP supervises wiring, AC voltage and battery level.

The activation of a compatible smoke detector or any normally-open fire alarm initiating device will do the following:

- Activate the audible and the visual signaling devices.
- Illuminate an indicating LED.
- Sound the piezo sounder at the FACP.
- Activate the FACP alarm relay.
- Operate any optional modules used to notify a remote station.
- Initiate an auxiliary control function.



GWF402/G



GWF404/G

FEATURES & BENEFITS

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| <ul style="list-style-type: none"> • Listed under UL® Standard 864, 9th Edition • Flex 402: Two Class B (Style B) IDC zones, one Class B (Style Y) NACs • Flex 404: Four Class B (Style B) IDC zones, two Class B (Style Y) NACs • Optional NAC Class A Converter Module (Flex 404) | <ul style="list-style-type: none"> • Offers the following NAC synchronization and programmability features: <ul style="list-style-type: none"> - ADA compliant strobe synchronization - ANSI audible signals as required by NFPA 72 - Silence inhibit, auto-silence, non-silenceable - Selective Silence: mute horns, keep strobes lit - Temporal or steady signal | <ul style="list-style-type: none"> • Displays silent or audible walk test from front keypad • Zone disable, alarm verification selectable per zone • Includes the following controls: <ul style="list-style-type: none"> - Acknowledge - Silence - Alarm - Walk Test - Reset | <ul style="list-style-type: none"> • Zone enable/disable • Contains the following LED indicators: <ul style="list-style-type: none"> - Alarm - NAC fault - Supervisory - System/Power Trouble - Maintenance - Walk Test - Trouble (one per zone) - Alarm Silence - AC | <ul style="list-style-type: none"> • Charger/Battery/Earth Fault (on pcb) • NAC/Zone Disable • Provides alarm verification • Uses a low AC voltage sense, automatic battery charger • Has a Piezo sounder for alarm, trouble, and supervisory |
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Options

CAC-4: Used to convert Class B (Style B) IDCs to Class A (Style D) and Class B (Style Y) NACs to Class A (Style Z). Mounts in FACP. Flex 404 only.

XRM-24: Second 100VA transformer for maximum accessory power. Mounts in FACP, Flex 404 only.

4XTMF: Transmitter module provides output for the local energy municipal box transmitter and alarm and trouble reverse polarity. Mounts in FACP, Flex 402 & Flex 404.

4XZMF: Zone relay module provides Form-C relays: Alarm Zones 1, 2, 3, 4, System Alarm, Trouble. Mounts in FACP, Flex 404 only.

4XLMF: LED interface module supports the GWSAN-404 remote annunciator, supervises annunciator wiring for open conditions. Mounts in FACP, Flex 404 only.

411UD: Four input/channel, dual line, digital alarm communicator/transmitter (DACT). Input/channels are compatible with normally open relay contacts, are supervised and fully programmable. Interfaces with public switched telephone networks and compatible with most central station receivers, Flex 404 only.

GWSAN-404: Remote annunciator mounts in single-gang electrical box, provides LED indication of Alarm Zones 1, 2, 3, 4; and System Trouble, Flex 404 only.

Ordering Information

GWF402: Flex 402 conventional FACP, 2 zones, 120 VAC, red

GWF404: Flex 404 conventional FACP, 4 zones, 120 VAC, red

71252: EOL resistor, 4.7K ohm, ½ watt

52194: Flex 402 and Flex 404 Installation & Operation Manual

Options:

CAC-4: Class A converter for initiating device circuits and notification appliance circuits (cannot be used on Flex 402).

XRM-24: Transformer expands NAC circuit power from 3 to 5 amps.

4XTMF: Transmitter module for remote station output or municipal box connection.

4XZMF: Relay module, four relays-by-zone, alarm and trouble contacts, 24VDC.

4XLMF: Remote annunciator driver, 24 VDC, supports GWSAN-404.

411UD: Four channel dual slave programmer DACT, Form C relay and upload/download capability, with enclosure, requires PRO-411.

PRO-411: Programmer, used with 411UD, 411UDAC.

GWSAN-404: LED remote annunciator for Flex 404, four alarms, one trouble (requires 4XLMF).

BB-17F: Battery box, houses 2 batteries (7-18 Ah max.).

Flex Series, GWF 402/404 Panels Technical Specifications

SYSTEMS

AC Power: 120 VAC, 50/60Hz, 2.3 A

Battery: Max. charging circuit: 27.6 VDC@ 0.8A Max.
charger capacity: 18 Ah (Two 7Ah batteries fit inside the FACP).

Initiating Device: Alarm zones 1 & 2 (Flex 402 / Flex 404)

Circuits (IDC): Alarm zones 3 & 4 (Flex 404 only)

Operation: All zones Style B (Class B)

Power: Class 2 Power-Limited circuitry

Operating Voltage: Nominal 20 VDC

Alarm Current: 15 mA minimum

Short Circuit Current: 40 mA maximum

Standby Current: 4 mA

Maximum Loop Resistance: 100 ohms

Notification:

One NAC: Flex 402

Two NACs: Flex 404

Circuits (NAC):

Operation: Class B (Style Y)

Power: Class 2 Power-Limited circuitry

Operating Voltage: Nominal 24 VDC

Maximum Signaling Current: 2.5 A total (5.0 A Flex 404 with an optional transformer)

Maximum Line Impedance: 1.5 volt drop

Form-C Relays: Trouble, Alarm (Supervisory, Flex 404)

Contact Ratings: 2 A @ 30 VAC (resistive)

Resettable: Operating voltage: nominal 24 VDC

Power: Class 2 Power-Limited circuitry

Maximum Available Current: 500 mA

Non-resettable:

Operating Voltage: nominal 24 VDC

Power: Class 2 Power-Limited circuitry

Maximum Available Current: 500 mA

Cabinet Dimensions:

Door: 15.3" x 14.7" x 0.3"

(39 x 37 x 1 cm)

Backbox: 15.0" x 14.5" x 3.0"

(38 x 37 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, GWF402 and GWF404 panels are designed to comply with the following standards:

UL Standards: UL 864 9th Edition

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

NYC Fire Dept: COA #366-04-3

CSFM: 7300-1703: 0161

ISO 9001 Certification

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

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