Flex 404

Four-Zone Fire Alarm Control Panel



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Description

The Gamewell Flex 404 Fire Alarm Control Panel brings the latest in microprocessor technology to conventional fire controls. The Flex 404 is compatible with the new ***i³*** ™ smoke detectors from System Sensor, and provides advanced features including drift compensation, maintenance alert, and freeze warning. Automatic synchronization of audio/visual devices is provided, selectable for three manufacturers' protocols. The NAC protocol includes the ability, using a single pair of wires, to silence audible devices while strobes continue to flash.

The Flex 404 is also compatible with conventional input devices such as two- and four-wire smoke detectors, pull stations, waterflow devices, tamper switches and other normally-open contact devices.

Operation

The activation of a compatible smoke detector or any normally-open fire alarm initiating device will: activate audible and visual signaling devices, illuminate an indicating LED, sound the piezo sounder at the FACP, activate the FACP alarm relay, and operate an optional module which notifies a remote station or initiates an auxiliary control function.

i³™ Technology Features

- Drift compensation automatically adjusts detector sensitivity and increases resistance to false alarms caused by dust accumulation.
- The maintenance alert LEDs (per zone) warn of excessive dirt accumulation, preventing false alarms.
- Detector sensitivity is automatically measured. The twice-yearly test requirements of NFPA 72 (7-3.2.1) are met without using a ladder or test meter.
- The wireless handheld sensitivity meter eliminates the need for voltmeters, magnets, or a physical connection to the detector. The reader displays sensitivity in terms of percent-per-foot obscuration and provides text status indication.
- The supervisory LED (per zone) provides a warning if a detector senses temperatures approaching freezing.
- Special test protocol and LED indication allow a quick test of all detectors — without a ladder.
- Electronic heat-sensing element provides thermal detection in addition to photoelectronic smoke detection.

Features

- Four Style B (Class B) Initiating Device Circuits (IDCs); two Style Y (Class B) Notification Appliance Circuits (NACs); optional module (P/N **CAC-4**) converts 4 IDCs and two NACs to Class A. 24 VDC.
- *NAC synchronization features:*
  - Provides synchronization of standard ANSI audible signals as required by NFPA 72 (3-8.4.1.2.3).
  - Provides synchronization of ADA compliant strobes per NFPA 72 (4-4.4.1).
  - Selectable for System Sensor, Cooper-Wheelock,& Gentex protocols.
  - Selective Silence feature allows manual silencing of horns while strobes continue to flash on the same NAC.
- Silent or Audible Walk Test operation mode commanded from the front keypad, with automatic return to normal after one hour of inactivity.
- Alarm verification selectable per zone.
- Each zone may be programmed for supervisory or fire; each zone has separate red and yellow LEDs.
- Disable switches provided for each zone.
- *NACs programmable for:* Silence Inhibit, Auto Silence, Strobe Synchronization, Selective Silence (horn/strobe mute), Temporal or Steady signal, Silenceable or Nonsilenceable.
- Form-C Alarm, Trouble, and Supervisory relays.
- 3.0 A (6.0 A with optional second transformer) total usable current.
- Piezo sounder for alarm, trouble, supervisory, and maintenance.
- *Control buttons:* ACK (Acknowledge), Alarm Silence, Reset, Walktest, Zone Enable/Disable (one per zone).
- *LED indicators:* Fire Alarm (one per zone), Supervisory (one per zone), Trouble (one per zone), Maintenance (one per zone), AC Power, NAC Disable, Zone Disable, NAC Fault, System Trouble, Power Trouble, Walktest, Alarm Silence, Earth Fault (on circuit board), Battery Fault (on circuit board), Charger Fault (on circuit board).
- Optional dress panel (P/N **DP-FLEX**).
- Optional modules: plug-in transmitter module (P/N **4XTMF**); plug-in zone relay module (P/N **4XZMF**); transmitter module (P/N **4XLMF**) for **SAN-404** remote LED annunciator.

Listings

Listings and approvals below apply to the basic Flex 404 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 7165-1288:180.
- MEA approved: file 366-04-E.

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Backbox Mounting

The cabinet can be surface-mounted. The door is removable during installation by opening and lifting it off the hinges. The cabinet mounts using two key slots at the top of the backbox and two additional 0.250" diameter holes at the bottom.

Ordering Information

F404	Four-zone conventional FACP.
XRM-24	120 VAC, 100 VA transformer, expands NAC power from 3.0 to 5.0 Amps.
CAC-4	Class A converter module. Used to convert Style B (Class B) IDC to Style D (Class A) and Style Y (Class B) NAC to Style Z (Class A). The module connects to J1 on the Flex 404 circuit board.
4XTMF	Transmitter module.
4XLMF	LED interface module, supports SAN-404.
4XZMF	Zone relay module.
411UD	Four-input (channel) 411UD dual-line Digital Alarm Communicator/Transmitters, which can be used as slave communicators with Flex 404.
PRO-411	Programmer used with 411UD.
SAN-404	Remote annunciator (RZA-4XF), mounts in a single-gang box.
BB-17F	Battery box, required to house two batteries greater than 7 AH, to a maximum of 18 AH.
DP-FLEX	Dress panel.
TR-1-R	Trim ring for semi-flush mounting.
52194	*Flex 404 Installation and Maintenance Manual.*

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Specifications

AC power, TB8

120 VAC, 50/60 Hz, 2.3 A.
Wire size: minimum 14 AWG (2.0 mm²) with 600 V insulation.

Battery (sealed lead-acid only), J8

Maximum charging circuit: normal flat charge 27.6 VDC @ 0.8 A.
Maximum battery charger capacity: 18 AH battery. Two 7 AH batteries can be housed in the FACP cabinet.Larger batteries require a separate battery box i.e. **BB-17F**.

Initiating device circuits, TB3

Alarm zones 1 – 4. Power-limited circuitry.
Operation: all zones Style B (Class B).
Normal operating voltage: nominal 22 VDC.
Alarm current: 15 mA minimum.
Standby current: 4 mA.
Short circuit current: 40 mA maximum.
Maximum loop resistance: 100 ohms. *End-of-line resistor:* 4.7K ohm, 1/2 watt (P/N **71252**).

Notification appliance circuits, TB2

Two NACs on Flex 404. Power-limited circuitry.
Normal operating voltage: nominal 24 VDC.
Maximum signaling current: 2.5 A total with standard transformer; 5.0 A total (2.5 maximum per NAC) with optional transformer.
End-of-line resistor: 4.7K ohm, 1/2 watt (P/N **71252**).

Form-C relays

Trouble relay TB5 (fail-safe). Alarm relayTB6.
Contact ratings: 2.0 A @ 30 VAC (resistive).

Auxiliary outputs

Resettable power, TB1

Power-limiting circuitry.
Operating voltage: nominal 24 VDC.
Maximum available current: 500 mA, appropriate for powering four-wire smoke detectors. *See note under nonresettable.*

Nonresettable power, TB1

Power-limiting circuitry.
Operating voltage: nominal 24 VDC.
Maximum available current: 500 mA, appropriate for powering four-wire smoke detectors. *Note:* Total current for nonre-settable power, resettable power and two NACs must not exceed 6 A for the Flex 404.

Cabinet dimensions

Door: 15.342" (38.97 cm) high x 14.677" (37.28 cm) wide x 0.375" (0.95 cm) deep.
Backbox: 15.0" (38.10 cm) high x 14.5" (36.83 cm) wide x 3.0" (7.62 cm) deep.

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