

## Flex Series, GF505 and GF510

### Five and Ten Zone Conventional Fire Alarm Control Panels

The Flex 505 is a five zone fire alarm control panel (FACP) and the Flex 510 is a ten zone FACP. These combination control and digital communicator panels provide reliable fire signaling protection for medium-sized commercial, industrial and institutional buildings.

Initiating Device Circuits (IDCs) for Flex Series panels are programmable and operate in Class B (Style B). Each panel is compatible with conventional input devices such as two-wire smoke detectors, four-wire smoke detectors, pull stations, water flow devices, tamper switches and other normally-open contact devices. This includes System Sensor i3™ Series microprocessor-based detectors with advanced features, like drift compensation, maintenance alert and freeze warning. (See the Gamewell-FCI Device Compatibility Document, P/N 52195, for a listing of compatible devices).

Outputs include four Notification Appliance Circuits (NACs), three programmable Form-C relays (factory pre-set for Alarm, Trouble and Supervisory), and resettable and non resettable power (24 VDC) for special applications. NACs are Class A power-limited and operate in Class B (Style Y). The FACP supervises wiring, AC voltage and battery level.

A variety of optional devices can be connected to the built-in ANN-BUS 4-conductor communication circuit. These devices include the following:

- remote annunciators
- printer interface module
- LED driver module
- relay module

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, display message on LCD display, sound the piezo sounder at the FACP, activate the FACP alarm relay and operate and optional modules used to notify a remote station or initiate an auxiliary control function.

Both the Flex 505 and Flex 510 fire alarm control panel are listed to UL® Standard 864, 9th Edition.



GF510

## FEATURES & BENEFITS

- IBC Seismic Certified
- Class B (Style B) Initiating Device Circuits (IDCs):
  - Flex 505 - five programmable IDCs
  - Flex 510 - ten programmable IDCs
- Built-in Digital Alarm Communicator/Transmitter (DACT)
- Three programmable Form-C relays
- 24 VDC special application power outputs (resettable and non-resettable)
- Built-in FLPS-7 power supply (7.0 A total current)
- Four Class B (Style Y) notification appliance circuits (NACs) programmable for the following:
  - ADA compliant strobe synchronization
  - Selective silence (horn/strobe mute)
  - Temporal or steady signal
  - Silenceable or non-silenceable
  - Auto-silence and silence inhibit
- Optional Class A converter module for NACs and IDCs (model CAC-5X)
- 80-character, backlit, high-angle, LCD display
- Includes an optional transmitter module for a municipal box service and reverse polarity (model 4XTMF)
- Provides a field-programmable keypad, which does not require special software or extra equipment
  - two password-protected programming levels
- Local FACP piezo sounder differentiates Alarm, Trouble, Maintenance, and Supervisory
- Service/programming: phone keys, cursor, enter, etc.
- Display panel LED annunciating indicators (visible to public)
  - Fire Alarm (red)
  - AC Power (green)
  - Supervisory (yellow)
  - Trouble (yellow)
  - Alarm Silenced (yellow)
- Membrane key panel (visible when panel door opens) that offers:
  - 25 keys, including a 16 alpha-numeric keypad
  - Function: ACK/STEP, SILENCE, DRILL, RESET
- 256 Event History Log
- 24 volt operation with low AC voltage sense
- Automatic battery charger with supervision
- Silent or audible walk test capabilities
- Alarm verification and positive alarm sequence (PAS)
- Piezo sounder for Alarm, Trouble, and Supervisory
- Built-in 4-conductor communication bus (ANN-BUS) to connect remote annunciators, and printer, LED, and relay modules
- Optional trim ring

**Options:**

**GFANN-80:** Remote annunciator with 80 character, backlit LCD which simulates the FACP display. It provides status indicators for AC Power, Alarm, Trouble, Supervisory and Alarm Silenced conditions. Packed in its own enclosure.

**GFANN-RLY:** Relay module provides 10 Form-C relays. Mounts in an FACP.

**CAC-5X:** Class A conversion module 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 an FACP. Two required for GF510.

**4XTMF:** Transmitter module provides output for the local energy municipal box transmitter and the alarm and trouble reverse polarity. Mounts in FACP.

**TR-CE:** Trim ring for semi-flush mount, red

**ANN-SB80KIT-R:** Backbox kit, surface mount used with ANN-80, red

**ANN-SB80KIT-W:** Backbox kit, angled for better viewing, surface mount used with the N-ANN-80 (-W), white

**ANN-MBRLY:** Optional mounting bracket (ANN-RLY)

**Ordering Information**

**GF505:** Flex 505 conventional FACP, 5 zones, 120 VAC, w/ FLPS-7 power supply, red

**GF510:** Flex 510 conventional FACP, 10 zones, 120 VAC, w/ FLPS-7 power supply, red

**71252:** EOL resistor, 4.7K ohm, ½ watt

**53164:** GF505 & GF510 Series I/O Manual

# Flex Series, GF505 and GF510 Technical Specifications

## SYSTEM

**AC Power:** 120 VAC, 60Hz, 3.8 A Supervised, non power-limited

**Battery:** Max. charging circuit: 27.6 VDC@ 1.4A

**Max. Charger Capacity:** 26 Ah (two 18 Ah batteries fit inside FACP)

**Initiating Device:** Alarm zones 1 - 5 (Flex 505/Flex 510)

**Circuits (IDC):** Alarm zones 6 - 10 (Flex 510 only) All zones Class B (Style B) Supervised, Class 2 Power-Limited circuitry

**Operating Voltage:** nominal 20 VDC

**Alarm Current:** 15 mA minimum

**Short Circuit Current:** 40 mA maximum

**Standby Current:** 2 mA

**Maximum Loop Resistance:** 100 ohms

**Notification:** Four NACs, Class B (Style Y)

**Circuits (NAC):** Supervised, Class 2, Power-Limited circuitry

**Operating Voltage:** nominal 24 VDC

**Maximum Signaling Current:** 7.0 A (3.0 A maximum per NAC)

**Maximum Wiring Voltage Drop:** 2 VDC

**Form-C Relays:** Programmable (factory setting: Trouble, Alarm, Supervisory)

### Contact Ratings:

2 A @ 30 VDC (resistive)

0.5 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

**Remote Sync:** 24 VDC nominal, max. current: 40 mA

**Cabinet-Door:** 19.3" x 16.8" x 0.3" (49 x 43 x 1 cm)

**Backbox:** 19" x 16.6" x 5.2" (48 x 42 x 13 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, GWF505 and GWF510 panels are designed to comply with the following standard:

**UL Standard:** 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:** S1869

**FM Approved:**

**MEA Approved:**

**CSFM:** 7300-1703: 0166

**The VMC Group (Sesimic):** VMA-45894-02C (Revision 1)

**ISO 9001 Certification:**

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