



by Honeywell

# Flex Series GF505 and GF510

## Description

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 *i<sup>3</sup>*™ 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 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 include: remote annunciators, a printer interface module, LED driver module, and 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.

## 5 and 10 Zone Conventional Fire Alarm Control Panels



GF510

## Features

- 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).
- 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
- Three programmable Form-C relays.
- 24 VDC special application power outputs (resettable and non-resettable).
- Optional Class A converter module for NACs and IDCs (model CAC-5X).
- Optional transmitter module for municipal box service and reverse polarity (model 4XTMF).
- Completely field programmable at keypad
  - does not require special software or extra equipment
  - two password protected programming levels
- 80-character, backlit, high-angle, LCD display.

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## Options:

<b>GFANN-80</b>	Remote annunciator with 80 character, backlit LCD which mimics the FACP display. Also provides status indicators for AC Power, Alarm, Trouble, Supervisory and Alarm Silenced conditions. Packed in its own enclosure.
<b>GFANN-RLY</b>	Relay module provides 10 Form-C relays. Mounts in FACP.
<b>CAC-5X</b>	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 FACP. Two required for GF510.
<b>4XTMF</b>	Transmitter module provides output for the local energy municipal box transmitter and the alarm and trouble reverse polarity. Mounts in FACP.

## Specifications

<b>AC Power:</b>	120 VAC, 60Hz, 3.8 A Supervised, non power-limited
<b>Battery:</b>	Max. charging circuit: 27.6 VDC @ 1.4A
<b>Max. Charger Capacity:</b>	26 Ah (two 18 Ah batteries fit inside FACP)
<b>Initiating Device:</b>	Alarm zones 1 - 5 (Flex 505/Flex 510)
<b>Circuits (IDC):</b>	Alarm zones 6 - 10 (Flex 510 only) All zones Class B (Style B) Supervised, Class 2 Power-Limited circuitry
<b>Operating Voltage:</b>	nominal 20 VDC
<b>Alarm Current:</b>	15 mA minimum
<b>Short Circuit Current:</b>	40 mA maximum
<b>Standby Current:</b>	2 mA
<b>Maximum Loop Resistance:</b>	100 ohms
<b>Notification:</b>	Four NACs, Class B (Style Y)
<b>Circuits (NAC):</b>	Supervised, Class 2, Power-Limited circuitry
<b>Operating Voltage:</b>	nominal 24 VDC
<b>Maximum Signaling Current:</b>	7.0 A (3.0 A maximum per NAC)
<b>Maximum Wiring Voltage Drop:</b>	2 VDC
<b>Form-C Relays:</b>	Programmable (factory setting: Trouble, Alarm, Supervisory)
<b>Contact Ratings:</b>	2 A @ 30 VDC (resistive) 0.5 A @ 30 VAC (resistive)
<b>Resettable</b>	
<b>Operating Voltage:</b>	nominal 24 VDC
<b>Power:</b>	Class 2 Power-Limited circuitry
<b>Maximum Available Current:</b>	500 mA
<b>Non-Resettable</b>	
<b>Operating Voltage:</b>	nominal 24 VDC
<b>Power:</b>	Class 2 Power-Limited circuitry
<b>Maximum Available Current:</b>	500 mA
<b>Remote Sync:</b>	24 VDC nominal, max. current: 40 mA
<b>Cabinet-Door:</b>	19.3" x 16.8" x 0.3" (49 x 43 x 1 cm)
<b>Backbox:</b>	19" x 16.6" x 5.2"(48 x 42 x 13 cm)

## Features (Continued)

- Panel LED annunciating indicators (visible to public)
  - Fire Alarm (red)
  - AC Power (green)
  - Supervisory (yellow)
  - Trouble (yellow)
  - Alarm Silenced (yellow)
- Local FACP piezo sounder differentiates Alarm, Trouble, Maintenance, and Supervisory.
- Membrane key panel (visible when panel door open):
  - 25 keys, including a 16 alpha-numeric keypad.
  - Function: ACK/STEP, SILENCE, DRILL, RESET.
  - Service/programming: phone keys, cursor, enter, etc.
- 256 Event History Log.
- 24 volt operation with low AC voltage sense.
- Automatic battery charger with supervision.
- Built-in FLPS-7 power supply (7.0 A total current).
- 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.

## Ordering Information

<b>GF505</b>	Flex 505 conventional FACP, 5 zones, 120 VAC, w/ FLPS-7 power supply, red
<b>GF510</b>	Flex 510 conventional FACP, 10 zones, 120 VAC, w/ FLPS-7 power supply, red
<b>71252</b>	EOL resistor, 4.7K ohm, ½ watt
<b>53164</b>	GF505 & GF510 Series I/O Manual

## Options:

<b>GFANN-80</b>	Remote annunciator, LCD, red
<b>GFANN-80W</b>	Remote annunciator, LCD, white
<b>GFANN-LED</b>	LED annunciator module; yellow and red LEDs
<b>GFANN-RLY</b>	Relay module, 10 Form-C relays
<b>CAC-5X</b>	Class A converter for IDCs & NACs (2 for Flex 510)
<b>4XTMF</b>	Transmitter module for remote station output or municipal box connection
<b>TR-CE</b>	Trim ring for semi-flush mount, red
<b>ANN-SB80KIT-R</b>	Backbox kit, surface mount used with ANN-80, red
<b>ANN-SB80KIT-W</b>	Backbox kit, angled for better viewing, surface mount used with the N-ANN-80 (-W), white
<b>ANN-MBRLY</b>	Optional mounting bracket (ANN-RLY)

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