

Flex 405

Fire Alarm Control Panel with built-in DACT and remote-site upload/download capability



Description

The Gamewell Flex 405 is a 24-volt, five-zone Fire Alarm Control Panel (FACP) with built-in communicator and remote-site upload/download capability. The integral communicator transmits event information (alarms, troubles, supervisories, faults, etc.) to a UL-Listed central station. The Flex 405 may be used in a variety of cost-effective applications, including: local fire alarm control panel (communicator disabled), fire alarm control panel/communicator, stand-alone sprinkler supervisory communicator, or slave communicator to a UL-Listed host fire alarm panel (requires normally-open dry

contacts to trigger five channels). Selectable transmission formats allow the Flex 405 to communicate to virtually all central stations.

Remote-Site Upload/Download

The Flex 405 may be downloaded or uploaded without affecting the system fire protection. Download system programming, and upload key system information such as: current system status, history and walk test files; zone, AC line, NAC 1 and NAC 2, resettable power and battery voltages; and system programming. Upload or download within one minute without affecting normal fire panel functions. The upload/download function also features multiple security techniques. The Flex 405 requires the **PK-CD** programming kit, which works with most Hayes-compatible modems (consult factory for listing).

Features

- Five programmable Initiating Device Circuits (zones). Each zone may be programmed for: two-wire smoke detectors, normally open contact devices (pull stations, heat detectors), four-wire smoke detectors, waterflow operation, supervisory operation, auto-reset supervisory operation.
- Two built-in, Class A or B (Style Z or Y) Notification Appliance Circuits (NACs). NACs may be programmed: silenceable, non-silenceable (a strobe circuit can keep flashing after the panel is silenced), auto-silence (program 5 to 30 minutes), silence inhibit (60 seconds), coding (march time, temporal, California).
- 3.0 amps of notification appliance power, expandable to 5.0 amps (meets the critical power requirements for ADA and UL-1971 devices).
- Two built-in Form-C Alarm and Trouble relays.
- Supervisory and communication fail outputs.
- Dual-line rotary- or Touch-Tone®-dial DACT interfaces to public telephone network (leased phone lines are not required).
- 24-Volt operation.
- Built-in voltmeter measures: zone voltage; primary AC line voltage; battery voltage; NAC(s) voltage; resettable 24-volt power.
- Surface Mount Technology (SMT).
- Fully programmable via built-in keypad (no costly external programmers necessary).
- Complies with NFPA 72 (Local, Central Station and Remote Station *[DACT only – not polarity reversal]* Fire Alarm Systems).
- Reporting formats include: 3+1, 4+1, 4+2 Standard + Expanded; 4+1, 4+2, Ademco Express.
- Integral battery charger for up to 60 hours of standby power.
- Fuseless, power-limited technology meets UL power-limiting requirements.
- Programmable alarm presignal timer, alarm verification timer, and optional trouble reminder.
- Single-person walk test. Fire drill function.
- Zone disable capability (software).
- 32-Event history buffer with time-and-date stamp. Accurate real-time clock/calendar.
- Extensive built-in transient protection.
- Electronics and operational controls fully enclosed in a lockable cabinet capable of housing up to 7 AH batteries.
- *Optional:* contact-by-zone module, remote annunciator, printer interface for on- or off-line printing.

Listings

Listings and approvals below apply to the basic Flex 405 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.
- CSFM approved: file 7165-1288:179.
- MEA approved: file 366-04-E.

Ordering Information

F405	Five-zone, 24-volt fire alarm control communicator. Includes backbox, transformer, technical manual, and frame-and-post operating instruction sheet.
XRM-24	120 VAC, 100 VA transformer expands NAC power from 3.0 to 5.0 amps.
SAN-405	Five-zone remote annunciator (RZA-5F), mounts to a single-gang box (<i>requires ADM-24</i>).
ADM-24	Annunciator driver module (supports SAN-405).
RM-5F	Five-zone relay module, provides contact-by-zone.
CAC-5F	Class A converter module. Converts all Class B initiating device circuits (zones) to Class A.
PRT-24	Printer interface module, provides an EIA-232 printer output. Includes cable, DB9F and DB25 adapter.
PK-CD	Contains programming software for Windows®-based PC computer (<i>cable not included</i>).
MCBL-7	DACT phone cord, 7 feet (2.134 m) long (<i>two required</i>).
BB-17F	Battery backbox, required for batteries over 7 AH.
TR-3-R	Trim ring.
52223	<i>Flex 405 Installation and Maintenance Manual.</i>

Specifications

- Single PC board design using Surface Mount Technology (SMT).
- Two modular telephone jacks for connection to RJ31X/modules.

AC power

- 120 VAC, 50/60 Hz, 2.3 A.
- *Wire size:* minimum 14 AWG (2.0 mm²) with 600-volt insulation.
- Built-in brownout circuitry, built-in voltmeter.

Communicator

- One line-active indicator for each of two phone lines.
- "Kiss-Off" signal LED.
- Dual "low telephone voltage detect" circuitry.
- Programmable event codes per each format.
- Up to 62 transmitted events/messages. Selectable/deselectable transmissions of 62 events.
- Five zones may be configured to five channels as a slave communicator (channels are auto-resettable).

Communication formats

Express formats allow complete transaction to be communicated in under five seconds.

- 20 PPS, 3+1 standard & expanded.
- 20 PPS, 4+1 standard & expanded.
- 20 PPS, 4+2 standard & expanded.
- 4+1 and 4+2 Ademco Express.

Initiating device circuits (zones)

- The Flex 405 includes five programmable initiating device circuits (zones). Circuits 1, 2, 4, and 5 are Style B (Class B). Circuit 3 is Style D (Class A). Use Class A converter module (P/N CAC-5F) to convert Class B IDCs to Class A.
- Each zone may support two-wire smoke detectors. Programming options include: waterflow (silenceable/non-silenceable), supervisory (standard/auto-reset), pull station, normally-open-contact device.
- All circuits are power-limited and supervised.
- All circuits allow up to 100 ohms of line resistance. Use 12 to 18 AWG wire (3.1 to 0.78 mm²).

Notification appliance circuits

- Two Style Z/Y (Class A/B) @ 2.5 A each.
- All circuits are fully power-limited and meet UL power-limiting requirements.

Auxiliary outputs

- Resettable four-wire smoke detector power @ 300 mA. Non-resettable power @ 300 mA.
- Integral Form-C Alarm and Trouble relays.
- Relay drivers for supervisory and communication fail.

Cabinet specifications

- The compact cabinet can be surface- or semi-flush-mounted.
- Knockouts on the top, sides, and back provide ease of wire entry.
- *Dimensions, Door:* 15.219" high x 14.219" wide (38.655 cm H x 36.115 cm W). *Backbox:* 15.0" high x 14.5" wide x 3.0" deep (38.1 cm H x 36.83 cm W x 7.62 cm D). *Trim ring (P/N TR-1-R):* 18.125" high x 17.62" wide (46.038 cm H x 44.755 cm W).

UL-Listed Receivers Compatible with the Flex 405

	Format # (Addresses 16 & 42)	Ademco 685 (1)	Silent Knight 9000	ITI CS-4000 (3)	FBI CP220FB	Osborne Hoffman Models 1 & 2	Radionics 6000/6500 (5)	Sescoa 3000R (7)	SurGuard MLR-2 (9)
0	4+1 Ademco Express	4			4				4
1	4+2 Ademco Express	4			4	4 (8)			4
2	3+1/Standard/1800/2300	4	4 (2)	4	4 (4)	4	4 (5, 6)	4	4
3	3+1/Expanded/1800/2300	4	4 (2)	4	4 (4)	4		4	4
4	3+1/Standard/1900/1400	4	4 (2)		4 (4)	4		4	4
5	3+1/Expanded/1900/1400	4	4 (2)		4 (4)	4		4	4
6	4+1/Standard/1800/2300	4	4 (2)	4	4 (4)	4	4 (5)	4	4
7	4+1/Expanded/1800/2300	4	4 (2)		4 (4)	4		4	4
8	4+1/Standard/1900/1400	4	4 (2)		4 (4)	4		4	4
9	4+1/Expanded/1900/1400	4	4 (2)		4 (4)	4		4	4
A	4+2/Standard/1800/2300	4	4 (2)	4	4 (4)	4	4 (5)	4	4
B	4+2/Expanded/1800/2300	4	4 (2)		4 (4)	4		4	4
C	4+2/Standard/1900/1400	4	4 (2)		4 (4)	4		4	4
D	4+2/Expanded/1900/1400	4	4 (2)		4 (4)	4		4	4
E	(NOT USED)								
F	(NOT USED)								

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KEY:

- (1) With 685-8 Line Card with Rev. 4.4d software.
- (2) With 9002 Line Card Rev. 9035 software or 9032 Line Card with 9326A software.
- (3) Rev. 4.0 software.
- (4) FBI CP220FB Rec-11 Line Card with Rev. 2.6 software and a memory card with Rev. 3.8 software.
- (5) Model 6500 with Rev. 600 software.
- (6) Model 6000 with Rev. 204 software.
- (7) With Rev. B control card at Rev. 1.4 software and Rev. C line card at Rev. 1.5 software.
- (8) Model 2 only.
- (9) Version 1.62 software.

Notes

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