



CFP-102 & CFP-105

2 AND 5 ZONE CONVENTIONAL
FIRE ALARM PANELS

The CFP-102 and CFP-105... Two zone and five zone, two NAC fire alarm control panels with the solutions built in.

Versatile... Two or five dual-use zones that can tell the difference between smoke detectors and contact initiating devices allowing the smoke detectors to be configured to auto-verify while the contact devices initiate an instant alarm.

Powerful... A power supply that can handle the panel's full rated load, including two 1.5 Amp power-limited NACs, charging batteries, and 500mA of auxiliary power.

Feature Rich... Select the features you need... supervisory zone type, waterflow zone type, auto-silence, waterflow delay, waterflow silence inhibit, and many more... microprocessor-based versatility at its best.

Easy to Program... Program the features the job requires using the switches and indicator lights on the front panel. Simple, fast, and effective... and the panel memorizes the setup even if all power is removed.

LISTINGS

- ULC - CAN/ULC-S527
- UL - UL864 - Local
 - Central Station⁽¹⁾
 - Remote Station

⁽¹⁾ Central Station application requires the optional dual-line dialer model CFP-500



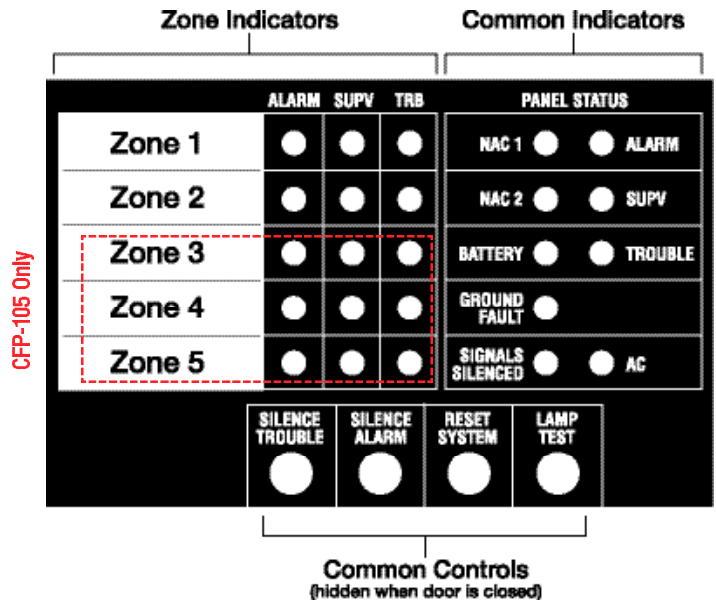
FEATURES

- 2 Class B / Style B dual-use zones (CFP-102)
- 5 Class B / Style B dual-use zones (CFP-105)
- 2 Class B / Style Y notification appliance circuits
- 4.2A power supply
- 500mA of aux. power
- Common alarm relay
- Common trouble relay
- Integral battery charger
- 4-wire 'Secur-Bus' for accessories
- Event buffer - last 20 events
- Six programmable zone options
- Optional Class A / Style D capability - all zones
- One-man walk test
- Optional dual-line dialer
- Optional relay module
- Optional City-Tie/Polarity Reversal module
- Space for two 12Ah rechargeable batteries
- Optional flush trim
- Upload/Download capable (with CFP-500 dialer installed)

STANDARD FEATURES

- **2 or 5 Class B / Style B dual-use zones**
 - each zone can monitor and distinguish between 2-wire smoke detectors and contact alarm initiating devices. This means that smokes can be verified while manual stations and heat detectors initiate an instant alarm
- **2 Class B / Style Y notification appliance circuits**
 - each NAC zone is power limited and provides 1.5A at 24VDC for heavy duty signal loads. NACs can be programmed for Steady, Temporal or Strobe (Strobe turns off on reset only – NAC 2 only)
- **4.2A power supply**
 - a full 3.0A of NAC power, 0.5A aux. power, with the balance to run the panel and charge the batteries. No extra transformers or added power supplies are required
- **500mA of Aux. power**
 - with switched and unswitched outputs – Power Limited
- **Common 'Alarm' relay**
 - Form 'C'
- **Common 'Trouble' relay**
 - Form 'C'
- **Integral battery charger**
- **'Secur-Bus'**
 - 4-wire port for communication and power to accessory components
 - all accessory components are supervised
- **Event buffer**
 - the last 20 events are stored in memory with easy recall for troubleshooting intermittent field problems
- **Six programmable zone options**
 - each zone can be individually programmed as :
 - **Null**... zone not used
 - **Instant**... smokes / contacts instant
 - **Verify**... smokes verified, contacts instant
 - **Waterflow**... to monitor waterflow switches
 - **Supervisory**... to monitor fire supervisory functions
 - **4-Wire Verify**... verify alarms from four-wire smoke detectors
- **Class A capability**
 - NACs are jumper-selectable for one Class A / Style Z zone and an optional module converts all initiating zones to Class A / Style D
- **One-man walk test**
 - audible or silent
- **Programmable features :**
 - 60 sec. silence inhibit timer... Y/N
 - 30 min. auto-silence timer... Y/N
 - waterflow silence inhibit... Y/N
 - waterflow delay 0 OR 60 sec.

Front Panel Controls & Indicators



- **3 LEDs per zone**
 - alarm (red), supervisory (yellow), and trouble (yellow)
- **Common Status LEDs**
 - NAC1 & 2 trouble, battery trouble, ground fault, signals silenced, common alarm, common supervisory, common trouble, and AC on
- **Controls**
 - trouble silence, signal silence, system reset, and lamp test
 - the controls are only accessible when the door is open
- **Front panel programming**
 - front panel LEDs and switches are used for simple, quick programming

OPTIONAL FEATURES

- **Cabinet-mounted options :**
 - Dual-line dialer module
 - City-Tie / Polarity Reversal module
 - Relay module
 - Class A / Style D zone interface module
- **Remote-mounted options :**
 - Remote trouble buzzer, LED, and trouble silence switch
 - Remote 5 zone fire / supervisory annunciator with trouble buzzer, LED, and trouble silence switch
- **Cabinet hardware option :**
 - Flush trim

TECHNICAL DATA

AC power*	120V 60Hz, 1.5A
NAC 1	24VDC full-wave rectified, 1.5A max., PTC overload protected, power limited. Class B, Style Y
NAC 2	24VDC full-wave rectified, 1.5A max., PTC overload protected, power limited. Class B, Style Y
NAC 1/2 as Class A/ Style Z.	24VDC full-wave rectified, 1.5A max., PTC overload protected, power limited
Zones	24VDC filtered regulated, 60mA alarm current max., power limited. 100ohms max. line resistance
Aux+	24VDC filtered regulated, 500mA max., PTC overload protected, power limited
COM	non-switched return for AUX+ power, 500mA
SCOM	switched return for AUX+ power, 500mA

Note : The 500mA from AUX+ is shared between the COM and SCOM returns. Internal and remote module power is supplied from the AUX+ and COM supply.

* 240VAC, 50Hz version also available

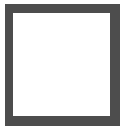
ORDERING INFORMATION

- CFP-102 and CFP-105... 2 and 5 zone fire alarm control panel

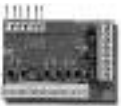


- c/w transformer, main control module, display/control dead-front panel, battery compartment dead-front panel, removable door with keylock, space for 2 x 12V, 12Ah sealed lead-acid batteries

- CFP-100FT... flush trim for CFP-102 and CFP-105



- CFP-152... 2 zone Class A interface module
- CFP-155... 5 zone Class A interface module



- mounts inside cabinet

- CFP-160... 3 relay module



- each relay jumper selectable to operate on alarm, supervisory or trouble. Each relay Form 'C' contacts rated 2A @ 30VDC

- mounts inside the cabinet

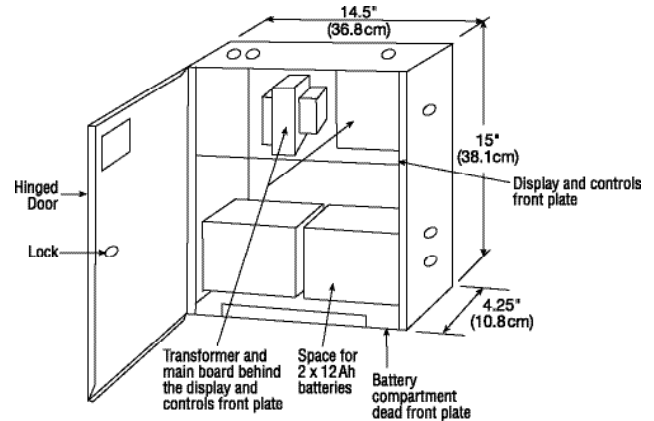
- CFP-161... local energy & polarity reversal module



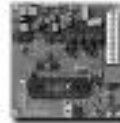
- mounts inside cabinet

DAT / CLK	data and clock line for remote module communications
Alarm relay	contacts rated 30VDC, 2A max.
Trouble relay	contacts rated 30VDC, 2A max.
Battery charger	24VDC, 350mA max. Will charge up to 16Ah* sealed lead-acid batteries max.
Cabinet	14.5" W x 15" H x 4.25" D. - Red (36.8 x 38.1 x 10.8 cm)

* External cabinet required for batteries larger than 12Ah



- CFP-500... dual line digital dialer



- programmable for SIA and Contact ID formats using CFP-550 handheld programmer

- mounts inside cabinet

- CFP-550... handheld programmer for CFP-500



- CFP-200... remote trouble indicator (RTI)



- c/w LED, buzzer, local lamp test/trouble silence switch

- mounted on a single-gang plate

- up to four CFP-200's per CFP-105 panel

- CFP-205... remote trouble indicator & alarm annunciator



- c/w LED, buzzer, 5 alarm LEDs (red), 5 supervisory LEDs (yellow), local lamp test/trouble silence switch

- mounted on a two-gang plate

- up to four CFP-205's per CFP-105 panel

CFP-102/CFP-105

2 AND 5 ZONE CONVENTIONAL FIRE PANELS

ENGINEER'S SPECIFICATIONS

The contractor shall supply a 2 or 5 zone, fully supervised fire alarm control panel. The panel shall supervise and monitor both 2-wire smoke detectors and contact alarm initiating devices on each two-wire zone.

The control panel shall be complete with two or five Class B / Style B alarm initiating zones, two Class B / Style Y notification appliance circuits, one Form 'C' common alarm relay, one Form 'C' common trouble relay, one non-switched Aux. power output, and one switched Aux. power output. The panel shall include individual alarm, supervisory, and trouble LED indicators per zone.

Each alarm initiating zone shall be capable of being individually programmed for smoke/contact instant alarm, smoke auto-verify and contact instant, supervisory, waterflow, or four-wire smoke auto-verify service. Each alarm initiating zone shall limit the maximum current to 60mA and be supervised for opens and ground faults. An optional module that mounts inside the cabinet shall be available to convert the alarm initiating zones to Class A / Style D.

Each notification appliance circuit shall be supervised for opens, shorts, and ground faults. Each notification appliance circuit shall be capable of being individually programmed as steady or temporal (ANSI cadence). Each notification appliance circuit shall supply 24VDC at 1.5A and be power limited. NACs shall be capable of being jumper programmed to operate as a single Class A / Style Z NAC. NAC #2 shall also be capable of being programmed as strobe so that the NAC will only restore when the panel is reset.

The total Aux. power shall be 24VDC, 500mA max. and be power limited. The control panel power supply shall support the Aux power (0.5A), the two NACs (3.0A), the battery charger (0.35A), and the control panel without the addition of any other power supplies or components.

The control panel shall include a four-wire output which shall provide power and communication for up to four remote trouble indicators and up to four remote alarm annunciator/trouble indicators. Each remote indicator shall be supervised for its presence.

The control panel shall accommodate, within the cabinet, an optional local-energy City-Tie / Polarity Reversal combination module or an optional dual-line digital dialer capable of transmitting all alarms/troubles in either SIA, Contact ID, 10/20bps, or pager format.

The control panel shall include individual trouble indicators for NAC1, NAC2, battery, ground, signals silenced, common alarm, common trouble, and AC on. The control panel shall also include controls for trouble silence, signal silence, system reset, and lamp test. The switch to put the panel into the programming mode or walk test mode shall only be accessible by a qualified installer. Indicators shall always be visible and the user controls shall only be accessible once the locked cabinet door is opened. Access to batteries and system components shall be user restricted by complete dead-front construction.

The panel shall include programmable options for a 60sec. silence inhibit period, waterflow silence inhibit, automatic NAC silence (30min.), waterflow delay (60sec.), and silent/audible one-man walk test. All panel programming shall be done using the front panel controls and indicators. Program data shall be stored in non-volatile memory that retains the information when all power is removed from the panel. The panel shall also include an event buffer that is installer accessible so that the last 20 events can be reviewed.