



Conventional Fire Alarm Control Panel

PFC-5002
2 Zone Conventional
PFC-5004/5004D
4 Zone Conventional
PFC-5004E
4 Zone Expandable to 8 Zones Conventional

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Description

The PFC-5002 and 5004 is a 2 and 4 zone conventional panel series with many options including a DACT and zone expansion modules, up to 8 class B initiating zones.

The PFC-5004E Fire Alarm Control Panel is a micro-processor based unit designed for small to medium commercial, residential, multifamily, institutional and industrial occupancies. Fully configurable using DIP switches, it enables the user to configure the system to meet their specific requirements. It comes standard with 4 Class B (Style B) Initiating Circuits which may be configured as 2 Class A (Style D) circuits. In addition, it comes equipped with 2 Class A/B (Style Z/Y) Indicating circuits which are each rated at 1.7 amps. The PFC-5004E can be expanded up to 8 Class B (Style B) or 4 Class A (Style D) Initiating Circuits and 4 Class A/B (Style Z/Y) Indicating circuits with the addition of a ZA-42 Adder Circuit Module. The panel also INCLUDES A 5 Amp Power Supply which powers the system and supplies a 4-wire resettable regulated smoke power supply of 24 VDC 100mA maximum. The PFC-5004E utilizes a simple DIP switch configuration for programming initiating and indicating circuits as well as the enabling and disabling of system functions such as Signal Silence, Fire Drill and Auxiliary Disconnect. Some predefined initiating circuits can optionally be configured Waterflow or Latching/Non-Latching Supervisory. In addition, the PFC-5004E allows for Alarm Verification on the initiating circuits. The indicating circuits may be configured as Silenceable or Non-Silenceable with the audible configured for Steady, March-Time, Temporal Code, or California Code.

The PFC-5004E is equipped with auxiliary relay contacts for Common Alarm, Trouble and Supervisory. If no Supervisory circuits are enabled, the Supervisory relay becomes a second Alarm relay. The cabinet is available in a beige color for the Canadian market and a red exterior for the U.S. and International markets.

Optional Modules

- DACT-5000 Digital Communicator
- PR-5000 Polarity Reversal and City Tie Module
- ZA-42 Zone Adder Module
- ARM-4 Quad Relay Module
- ARM-8 Eight Relay Module



Features

- 2 or 4 Class B (Style B) Initiating Circuits which may be configured as 2 Class A (Style D) circuits. Expandable up to 8 Class B (Style B) or 4 Class A (Style D) Initiating Circuits
- 2 Class A/B (Style Z/Y) Indicating Circuits with individual trouble indicators (1.7 Amps max. per circuit.) Expandable up to 4 Class A/B (Style Z/Y) Indicating circuits
- Each Indicating Circuit can be configured as Silenceable or Non-Silenceable
- The audible may be configured as Steady, Temporal Code, California Code or March Time
- Predefined Initiating Circuits can be configured as Waterflow or Latching/Non-Latching Supervisory
- Auxiliary relay contacts for Common Alarm, Common Trouble and Common Supervisory.
- If no Supervisory circuits are enabled, the Supervisory relay becomes a second Alarm relay.
- Zone Disconnect Switches
- Built-in RS-485 Interface for RA8F Multiplexed Remote Annunciators (Up to 3 Annunciators)
- Interface for Remote Trouble Indicator
- Built-in Walk Test operation
- Auto Signal Silence
- Selectable Alarm Verification on Initiating Circuits
- 5 Amp Power Supply
- Output for 4-wire resettable regulated smoke power supply of 24 VDC 100mA maximum.
- Output for PRTI or Remote Annunciators of 24VDC, 300mA max, unfiltered
- Extensive Transient Protection
- Easy configuration via DIP switches
- Manufactured by Potter

Construction Specification

Housing

Sheet Metal
Finish: Red
Weight: 18 lbs
Dimensions: 14 7/8"H x 14 1/2"W x 5"D

Electrical Specification

Primary Input Power

120 volts, 60 Hz, 4 Amp maximum

Initiating Circuits

Output Voltage: 24 VDC
Current Limited: 50 mA
Supv. Current: 3 mA (up to 30, 2-wire
smokes @ 100 uA each)
Loop Resistance: 100 ohms, max
EOL Resistor: 3.9Kohm + 5%, 1/2W

Indicating Circuits

Output Voltage: 24 VDC
Output Current: 5.0 Amp maximum
EOL Resistor: 3.9Kohm + 5%, 1/2W
Aux. Contacts: 28 VDC, 3A (Resistive)

Common Equipment Form C Relays

Alarm, Trouble, and Supervisory

Charging Capacity

4 to 24 AH batteries

Ordering Information

Model No.	Description
PFC-5002	2 zone conventional FACP
PFC-5004	4 zone conventional FACP
PFC-5004D	4 zone conventional FACP with DACT
PFC-5004E	4 zone expandable conventional FACP, up to 8 zones class B or 4 zones class A
PFC-5008	8 zone conventional FACP, class B or 4 zones class A with DACT. This is a PFC-5004E w/ZA-42 and w/DACT-5000.
DACT-5000	Digital Communicator
CFG-5000	Configuration and Diagnostics Tool for the DACT-5000
PR-5000	Polarity Reversal and City Tie Module
ZA-42	Zone Adder Module
ARM-4	Quad Relay Module
ARM-8	Eight Relay Module
RA8F	Remote Multiplex Annunciator comes with Common Control Features, Indicators and 8 Bi-Colored LEDs
12V7.2AH	12 Volt battery, 7.2AH (2 needed)
12V10.0AH	12 Volt battery, 10AH (2 needed)
12V12.0AH	12 Volt battery, 12AH (2 needed)

Specifications are provided for information only and are believed to be accurate. GFC assumes no responsibility for their use. Data and design are subject to change without notice. Installation and wiring instructions are shipped with the products and should always be used for actual installation. For more information, contact your Sales Representative.



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