PFC-4064

Conventional Fire Alarm Control Panel

Features

- 6 Programmable Initiating Device Circuits
- System is expandable to 192 input circuits using the IDC-6 expansion module
- 5.0 Amp Power Supply
- 4 Notification Circuit rated at 3.0 Amps
- Strobe Synchronization for Gentex, AMSECO, System Sensor and Cooper/Wheelock
- One programmable auxiliary output rated at 1.0 A
- 4 x 20 LCD display with system LEDs for clear system status
- P-Link RS-485 bus supports 31 system accessories
- Built-in Ethernet Connection with listed IP Communicator
- Ability to E-mail system status, reports and system configuration
- Service Reminder E-mails

Description

The PFC-4064 Conventional Fire Panel is a compact, expandable panel designed to monitor all facets of a fire alarm system and communicate the status to a monitoring station. The PFC-4064 panel is a listed and approved microprocessor based conventional fire panel and complies with UL-864, NFPA-70, and NFPA-72. The panel is provided with six (6) inputs and four (4) 24VDC, 3.0 Amp Notification Appliance Circuits (NAC) with strobe synchronization. The 5.0 Amp power supply provides ample power to meet any jurisdictions requirements and will charge up to two (2) 55 amp/hour batteries. In addition, the panel has the Potter P-Link for connection to system accessories. The panel also has a 1.0 Amp auxiliary power output for controlling ancillary fire alarm functions.

The control panel is in a metal cabinet with a key lock and lexan window for viewing the system status. The printed circuit assembly is mounted for quick removal and installation to allow the cabinet to be installed with minimal effort. The cabinet houses up to two (2) 7 AH or two (2) 12 AH batteries.

The display is an eighty (80) character LCD with system status LEDs. The system status is clearly displayed and the panel includes a history buffer for past events. The key pad allows navigation into the system menu, limited programming and system control. The condition and events on the panel are clearly displayed to allow the user and installer to determine the system status.

The panel will support up to thirty-one (31) system accessories.

Technical Specifications

Dimensions	18 1/2" H x 14 1/4 W x 4 3/4" D
Enclosure	18 gauge cold rolled steel with removable locked door with Lexan viewing window
AC Mains	5.0 amp @ 120 VAC 60 Hz 2.0 amp @ 240 VAC 50 Hz
Battery	70 mA Standby 235 mA Alarm
Temperature and Humidity Range	32° to 120° (0°C to 49°C) with a maximum humidity of 93% non-condensing.
Standards	NFPA 70, 72

2-Wire Smoke Detector Compatibility

Detector Model	Identifier	Base Model	Identifier
SYSTEM SENSOR (Brk) (Max. No. Of Detectors Per Zone Is 20)			
1400	A	N/A	N/A
2400	A	N/A	N/A
2400TH	A	N/A	N/A
2W-B	A	N/A	N/A
2WT-B	A	N/A	N/A
DETECTION SYSTEM (Max. No. Of Detectors Per Zone Is 25)			
DS250	A	MB2W/MB2WL	A
DS250TH	A	MB2W/MB2WL	A
ESL (Max. No. Of Detectors Per Zone Is 25)			
611U	S10	601U	S00
611UD	S10	601U	S00
611UT	S10	601U	S00
612U	S10	601U	S00
612UD	S10	601U	S00
613U5	S10	601U	S00
611UD	S10	609U10	S00
612UD	S10	609U10	S00
425C	S10	N/A	N/A
425CT	S10	N/A	N/A
HOCHIKI (Max. No. Of Detectors Per Zone Is 25)			
SLR-24	HD-3	HSC-221R	HB-71
		HSB-221	HB-54
		HSB-221N	HB-54
		NS6-221	
		NS4-221	
		NS6-220	HB-3
SLR-24H	HD-3	HSC-221R	HB-71
		HSB-221	HB-54
		HSB-221N	HB-54
		NS6-221	
		NS4-221	
SIJ-24	HD-3	HSC-221R	HB-71
		HSB-221	HB-54
		HSB-221N	HB-54
		NS6-221	
		NS4-221	

Detector Model	Identifier	Base Model	Identifier
FENWAL (Max. No. Of Detectors Per Zone Is 25)			
CPD-7051	I51FE1	2-WIRE	FE51A
PSD-7155	P55FE1	2WRLT	FE52A
PSD-7156	P56FE1	2WRB	FE55A
All of the above Fenwal detectors and bases can be used in any combination. Retrofit Base Adaptor 70-501000-003, Identifier MAFE1 (for series 70-201000 Bases, Models -001, -002, -003, and -005). Duct Housing with Detector Base DH-51, Identifier DH22FE5 (for CPD-7051 and PSD-7155 detectors only).			
POTTER (Max. No. Of Detectors Per Zone Is 25)			
CPS-24	HD-3 (HOCHIKI)	SB-46	HB-4 (HOCHIKI)
		SB-93	HB-3 (HOCHIKI)
PS-24H	HD-3 (HOCHIKI)	SB-46	HB-71 (HOCHIKI)
			HB-54 (HOCHIKI)
IS-24	HD-3 (HOCHIKI)	SB-46	HB-71 (HOCHIKI)
			HB-54 (HOCHIKI)
NOTE: If using a mix of System Sensor and other smoke detectors, a maximum of 20 detectors shall be permitted.			

User Interface

The fire alarm control panel has a 4 x 20 LCD display to provide information to the system status. The keypad has navigation keys to allow manipulation of the Menu on board the panel. The panel is shipped standard with the following LEDs:

- AC Power - Green
- Alarm - Red
- Earth Fault - Amber
- Supervisory - Amber
- Silenced - Amber
- Trouble - Amber

The common buttons include a Silence, Reset, Acknowledge, and Drill. All of the buttons are accessible once the locked door is opened.

P-Link

The PFC-4064 has a proprietary communication protocol that communicates through a RS-485 connection to field devices. Up to 31 devices may be connected to a single P-Link connection. The P-Link includes the communication terminals and regulated 24 VDC connection for the field devices. The field devices may be any of the following:

IDC-6 – Initiating device circuit expander, provides an additional six (6) inputs.

RA-6075R – 2 x 16 LCD annunciator with a key pad in a locked metal enclosure.

RA-6500R(F) – 4 x 40 LCD annunciator with a key pad in a locked metal enclosure. Flush mount version available.

LED-16(F) – 16 LED annunciator with common indicators in a locked metal enclosure. Flush mount version available.

PSN-1000(E) – 10 amp, remote intelligent power supply with 6 NACs, 2 Inputs and a P-Link repeater.

CA-4064 – Class A convertor that converts the NACs and P-Link connection.

UD-2000 – UL listed, Dual line telephone alarm communicator.

DRV-50 – LED driver expander, used to connect up to 50 LEDs in a graphic display .

FCB-1000 – Fire communication bridge, provides remote mounting of the Ethernet connection.

FIB-1000 – Fiber interface module, used to extend P-Link to multi-mode fiber (2 required).

RLY-5 – Relay module, provides 5 form C relay contacts rated at 3.0 amps 24VDC/125AC.

SPG-1000 – Serial parallel gateway, allows for the connection to a serial or parallel printer.

The **FIB-1000**, **FCB-1000** and the **SPG-1000** may be installed in the stacker bracket or ordered with the optional rack mount enclosure.

MC-1000 Multi-Connect allows up to sixty-three panels to share a single reporting technology.

AE-2 – Two card expansion cabinet.

AE-8 – Eight card expansion cabinet.

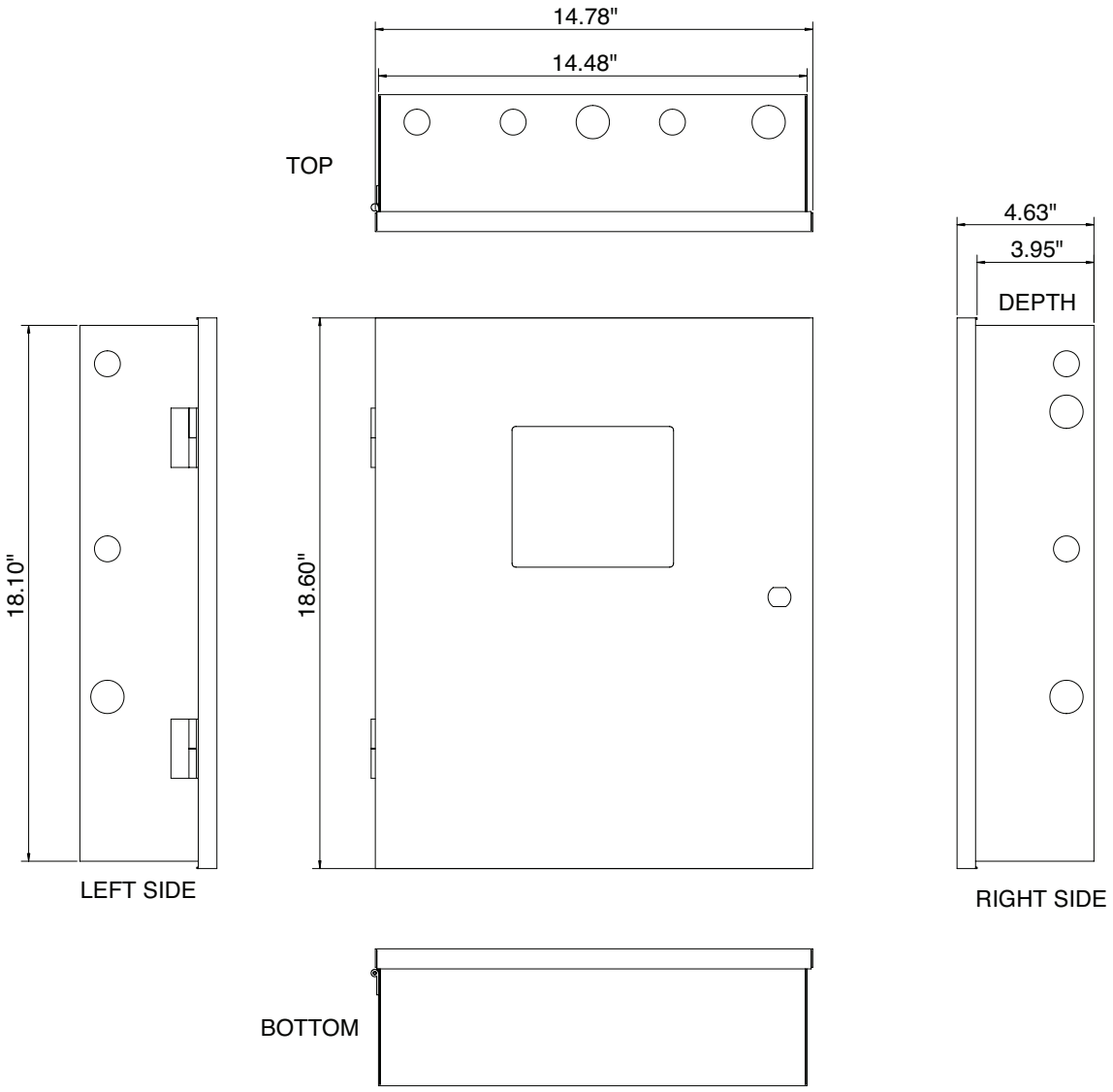
AE-14 – Fourteen card expansion cabinet.

Ethernet/I.P. Connection

The PFC-4064 is shipped standard with an Ethernet connection. This connection is the programming port and may be connected to a building Wide Area Network (WAN) or Local Area Network (LAN). Once connected to the Internet, the panel may be selectively programmed to e-mail alarm conditions, trouble conditions, supervisory conditions, test, Event History and detector status. An e-mail may be sent to the panel and the panel will e-mail the event history, detector status, configuration file or server status to an authorized E-mail account. In addition, reminders may be set to send an e-mail for service, testing or other conditions.

In addition, the Ethernet connection is UL listed as an IP communicator. The IP communicator is listed to report to the UL listed Sur-Gard III IP receiver. The IP communicator replaces the traditional less reliable alarm communicator transmitter that utilized telephone lines. The IP communicator is an active method of connection and communication to the monitoring station.

Dimensions



Ordering Information

Model	Description	Stock No.
PFC-4064	Fire Alarm Control Panel	3992360
	Replacement Board	3992363