PFC-6200
FIRE ALARM CONTROL PANEL

S735

7165-0328:0195

NYC Fire Dept.
Certificate of Approval
6155

Product includes a 5 year warranty

Features

- 127 points expandable to 254 by use of one SLCE card
- 5 Amp Power Supply
- 2 NACs regulated, rated at 3 amps each
- 2 input/output (I/O) circuits for flexibility rated at 1 amp each
- Strobe synchronization for Potter/AMSECO®, Gentex®, Cooper/Wheelock® and System Sensor®
- 99 Software zones for versatile installation options
- 4 x 40 LCD and keypad for ease of operation
- Smoke Detector Drift Compensation
- NFPA Compliant Smoke Sensitivity Test Built-in
- Optional dual line digital alarm communicator reports by panel zone or point ID
- P-Link communication line for up to 31 accessories
- Ethernet port for programming, reporting and network connectivity
- E-mail system status, reports and event information
- Built-in IP communicator supports report by point, zone or panel
- Size (W x H x D): 17 5/8" x 26" x 3 3/4"

Electrical Specs

AC Mains:

- 3.0 amps @ 120 VAC 50/60Hz
- 2.0 amps @ 240 VAC 50/60Hz

Battery:

- 130 mA Standby
- 220mA Alarm

Description

The PFC-6200 is a single loop expandable to two loop analog/addressable fire alarm control panel. The panel utilizes the Potter/Nohmi device protocol that has a complete line of initiating and control devices. The SLC is capable of 50 ohms of resistance and does not require the use of twisted or shielded wire. The on board Signaling Line Circuit (SLC) supports 127 of any combination of smoke sensors, heat detectors or modules. An additional SLC may be added in the control panel or remotely installed to provide an additional 127 points bringing the total system capacity to 254 points.

The panel has auto-programming learn mode that will not affect the existing system when adding or deleting a device. The system is capable of 99 software zones, cross zoning and counting zones. The panel is fully programmed from a PC based software program that will work with Microsoft XP, Vista or Windows 7.0 operating systems.

The PFC-6200 has an Ethernet connection for programming network connectivity and IP reporting communicator. The system uses a simple patch cable for connecting a PC to the panel. In addition, the system may be connected to a building network and programmed while on the network. The system has a built-in e-mail function and will send system e-mail reminders The IP communicator is listed with the Sur-Gard III IP receiver.

The panel will support P-Link devices which include: the RA-6075, RA-6500 and LED-16 Annunciators, RLY 5 Relay Module, SPG-1000 Serial Parallel Gateway (printer card), an FCB-1000 Remote Ethernet/IP connection, DRV-50 LED driver for 50 LEDs, PSN-1000 Remote Power Supplies (10 Amp) and FIB-1000 P-Link Fiber Interface Module. In addition, the panel allows for the installation of the UD-1000 dual line telephone line digital alarm communicator transmitter (DACT). The UD-1000 is programmable for a single line or dual line and is compatible with Ademco's Contact ID or SIA DCS protocols.

The SLCE-127 may be installed with 6,500 feet of the control panel and may be installed in the AE-8 eight slot or AE-14 fourteen slot expansion cabinets. Another option is to install the SLCE-127 in the PSN-1000E intelligent power supply to allow remote installation of the loop adder and system synchronized notification circuits. Each PSN-1000 acts as a P-Link repeater and will repeat the communication to allow the installation of the remote loop thousands of feet from the main control panel.

The complete system may be converted to Class A with a CA-6075 module. The CA-6075 provides the hardware necessary to convert the remote annunciators through the Potter P-Link connection protocol, the NACs and the SLC to Class A operation.

SLC Loop Accessories

The control panel may be connected with up to 254 addressable devices or modules in any combination. The SLC is not restricted by any special wire requirements and may be wired with any wire that complies with the NEC.

SLC Loop Devices

Device	Description
PSA	Analog Photoelectric Smoke Detector with a listed obscuration of 1.02 to 3.83 percent per foot.
PSHA	Combination Analog Photo Electric Smoke/Heat Detector – a smoke detector with a listed obscuration of 1.02 to 3.83 percent obscuration and a fixed temperature 135° Fahrenheit heat detector
FHA	Analog Fixed Temperature Heat Detector that is selectable from 135° F to 185°F
RHA	Analog Rate or Rise Heat Detector that has a fixed temperature selection from 135°F and 174°F and also will alarm if the temperature increase 12-15°F in one minute
DDA	Addressable Duct Smoke Detector
AB-6	6” round base that is mounted to an electrical box and wired for connection of one of the above sensors
AB-4	4” round base that is mounted to an electrical box and wired for connection of one of the above sensors
AIB	Isolator base that interrupts a short in a SLC and prevents the short from affecting protected devices on the loop
ARB	Addressable Relay Base that contains two relays controlled by the SLC. One relay is rated at 8 amps at 240 VAC/30VDC and the other is rated at 2 amps 240 VAC/30 VDC
ASB	Addressable Sounder Base that contains an addressable sounder module that may be configured for local, group and all call. The sounder follows the pattern sent to the device.

Modules

Device	Description
MCM	Miniature Contact Module provides a small foot print contact module for mounting inside an enclosure.
APS-SA	Single Action Addressable Pull Station
APS-DA	Dual Action Addressable Pull Station
SCM-4	Single Contact Module is a standard contact module with an LED that mounts into a 4” square electrical box.
DCM-4	Dual Contact Module is a device that can monitor two distinct inputs with a single device or in a Class A mode.
TRM-4	Twin Relay Module provides two form C relays that simultaneously active when the module is triggered by the control panel. Each relay is rated for 2 amps at 24VDC or 0.5 amps at 125VAC.
MOM-4	Monitored Output Module switches monitored power and is activated by the control panel.
CIZM-4	Conventional Input Zone Module is used to connect conventional smoke detectors.
SCI	Short Circuit Isolator interrupts a short on the SLC and prevents the short from affecting protected devices on the loop.

P-Link Devices (31 devices max. depending on modules)

Device	Description
RA-6075	Small LCD/keypad remote annunciator with a metal back box and key lock
RA-6500	Large LCD/keypad remote annunciator with a metal back box and key lock
SLCE-127	Analog/Addressable loop expansion module
PSN-1000	10 Amp intelligent power supply/P-Link repeater
PSN-1000E	10 Amp intelligent power supply/P-Link repeater with enclosure for SLCE-127

PFC-6200
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SLC Circuit Diagram


Ethernet/IP Communicator

Alarm Monitoring Station


UD-1000
Digital Alarm Communicator

CS/CHS
Selectable Candela
Ceiling Strobe or Strobe/Horn

2 NAC circuits,
3 Amp each


S-24/HS-24
Selectable Candela
Strobe or Strobe/Horn


RA-6075
LCD Annunciator


RA-6500
LCD Annunciator


PSN 1000/E
Power Supply


SLCE-127
Signaling Line
Circuit Expander


CA-6075
Class A
Module

2 Input / Output
(I/O) Circuits


Door
Holders

One SLCE-127
per system

SLC Loop


AB-6
Detector Base
PSA
Smoke Detector


ASB-6
Analog Sounder
Base
PSHA
Smoke Detector
/ Heat Detector


AIB-6
Isolator Base
RHA
Heat Detector


ARB-6
Analog Relay
Base
FHA
Heat Detector


TRM-4
Twin Relay
Module


MOM-4
Monitored Output
Module


DCM-4
Dual Contact
Module


SCI
Short Circuit
Isolator


CIZM-4
Conventional
Initiating Zone
Module


PS-24
Smoke Detector


SCM-4
Single Contact
Module


CO-12/24
Carbon Monoxide
Detector


MCM
Miniature Contact
Module

APS-SA
Addressable
Pull Station