PFC-6006

CONVENTIONAL FIRE PANE
SPRINKLER MONITORING PA

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 09/26/16

SIGNALING
c UL us
LISTED

S735 7165-0328:0204

Features:

- 6 Programmable Initiating Device Circuits
- Class A or Class B Waterflow Initiating Circuit
- 2 Wire Smoke Detector Compatibility
- 1.0 Amp Power Supply
- 1 Notification Circuit rated at 0.5 Amps Regulated
- Strobe Synchronization for Potter/AMSECO, Gentex, System Sensor and Cooper/Wheelock
- 0.5 Amp Auxiliary Power, Programmable as Constant or Resettable
- 2 x 16 LCD display with system LEDs for clear system status
- Keypad for system features
- P-Link for Remote Annunciator Connections
- Capacity to charge and house 18AH batteries
- Onboard Dual Line Digital Alarm Communicator
- Built-in Ethernet Connection with listed IP Communicator
- Ability to E-mail system status, reports and system configuration
- Service Reminder E-mails

Electrical Specs

AC Mains

- 1.0 amp @ 120 VAC 60 Hz

Battery

- 105 mA Standby
- 160 mA Alarm

Dimensions

- 18 1/2" H x 14 1/4 W x 4 3/4" D

General Description

The PFC-6006 is a listed small conventional fire system ideally suited to monitor a small fire system such as a fire sprinkler system. The first input is selectable as a Class A or Class B water flow input and the other five zones are selectable from a menu of options including two-wire smoke detection. The panel has a 1.0 amp power supply that powers the panel, charges the batteries and supplies 0.5 amps to a notification appliance circuit and 0.5 amps of auxiliary power. The auxiliary power is programmable as constant or resettable.

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 12VDC, 18 AH batteries.

The display is a thirty-two (32) 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 has a dual telephone line digital alarm communicator transmitter (DACT) built on-board. One or both telephone lines may be enabled to allow communication to a remote monitoring station. In addition, an updated panel configuration may be sent to the panel through the telephone lines. The panel has line in and line out to allow the panel to be installed ahead of other telephone equipment on the premises.

The panel will support up to four (4) of the RA-6075 remote annunciators on the P-Link bus. These annunciators include a metal enclosure with a key lock and provide full functionality of the system.

The panel is pre-programmed from the factory for monitoring a typical wet or dry fire sprinkler system. The programming may be changed using the Potter Fire Panel Programmer (available free from www.pottersignal.com) and a standard Ethernet cable. The default program is as follows:

Input 1 - Waterflow
Input 2 - Smoke Detection (two-wire)
Input 3 - Manual Pull Station
Input 4 - Non-Latching Supervisory
Input 5 - Valve Tamper
Input 6 - Valve Tamper

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General Description (Cont.)

In the standard program, Input 1 is defaulted as a Water flow zone. Input 1 is the only Class A/Class B zone. The panel will automatically determine Class A or B based on wiring and the presence of the end of line resistor. All of the inputs may be programmed for General Alarm, Waterflow, Two-Wire Smoke Detector, Heat Detector, Manual Pull Station, Non-latching Supervisory, Latching Supervisory, or Valve Tamper.

The NAC is listed for strobe synchronization and the panel is listed with Potter/AMSECO, Gentex, System Sensor, and Cooper Wheelock signals. Please refer to the Potter Notification Compatibility Document for the maximum number of strobe devices that may be connected. The maximum output is 0.5 amps.

The Ethernet connection may be connected to a building network with Internet to provide e-mail notifications of system status, reports, or system configuration. In addition, the Ethernet connection is listed for IP reporting to a monitoring station.

CAUTION: De-Energize Unit Prior to Servicing

120VAC 60Hz
Connect to separate
unswitched AC circuit

Use 14 AWG or heavier gauge
wire with 600V insulation

WARNING: RADIO FREQUENCY FROM TRANSMITTING DEVICES MAY IMPAIR INTENDED OPERATION OF THE CONTROL UNIT. MAINTAIN A MINIMUM OF 30 CM BETWEEN TRANSMITTING DEVICES AND CONTROL UNIT.

AVERTISSEMENT : LES RADIOFRÉQUENCES ÉMISES PAR LES DISPOSITIFS DE TRANSMISSION PEUVENT NUIRE AU FONCTIONNEMENT PRÉVU DU POSTE DE CONTRÔLE. MAINTENIR UNE DISTANCE D'AU MOINS 30 CM ENTRE LES DISPOSITIFS DE TRANSMISSION ET LE POSTE DE CONTRÔLE.

Primary AC
120VAC, 60Hz, .75 AMP
Min Low AC Detect 98VAC

Battery Charging
27.3VDC @ .5A
Low Battery Detect @20.4VDC

All Circuit Impedance Values
Short Circuit: 0 Ohms
Open Circuit: >10K
Earth Fault to any terminal: 0 Ohms

Main Fuse Specification
1.6A-250VAC

Batt. Fuse Specification
2.5A-250VAC

F.C.C.

This device has been verified to comply with FCC Rules Part 15, Class A Operation is subject to the following conditions:
1. This device may not cause radio interference.
2. This device must accept any interference received including any that may cause undesired operation.

Acknowledgements
Gentex ®, Cooper Wheelock ®, and System Sensor ® synchronization protocols used with permission. Cooper Wheelock Patent Nos. 5,400,009.

Potter Electric Signal Company LLC
PFC-6006
US: POTAL01BSMP
Complies with 47 CFR Part 68.
Made in USA.
See board for Serial #.

P/N 5406280 (10/31/2012)

SIGNALING
c UL us
LISTED
FIRE ALARM
EQUIPMENT
3PDS
SIGNAL SYSTEM CONTROL UNIT
_____OF_____

POTTER
The Symbol of Protection

PFC-6006
Sprinkler Monitoring Panel

ALARM SIGNAL ACTIVATION
PRESS LEFT & RIGHT
ARROW KEYS AT SAME
TIME TO TRIGGER ALARM
SIGNAL ACTIVATION.

⚠ CAUTION

ONLY DETECTORS THAT ARE SHOWN IN THE COMPATIBILITY LIST ARE TO BE USED.

LAMP TEST: PRESS [ENTER], [5], PASSWORD, [6]. PRESS THE [ESC] KEY WHEN DONE.

Battery connection (non-power limited).
Use two (2) 12V batteries connected in series.

Requirements
System must be fully tested after installation.
Intended for indoor use in dry locations only.
Separation of power limited wiring from non-power limited wiring must be at least 1/4".
Install in accordance with installation manual Part Number 5403559 - ___, and Operating instructions - Part #5406282 - ___.

See Smoke Detector Compatibility Identifer "A"

NFPA Commercial Protected Premises Control Unit for UL Installations: 13, 70, and NFPA 72.

Alarm activation requiring activation of two or more automatic detection devices shall not utilize any time delay.

Service Use for UL Installations:
- Local
- Remote Station
- Proprietary
- Central Station

SERVICE USE AND COMMERCIAL PROTECTED PREMISES UNIT FOR ULC INSTALLATIONS: WIRING METHODS SHALL BE IN ACCORDANCE WITH CSA C22.1, SAFETY STANDARD FOR ELECTRICAL INSTALLATIONS, CANADIAN ELECTRICAL CODE, PART I, SECTIONS 32. LOCAL SERVICE TYPES (NON-CODED): A, M, SS, WF.