



PFC-2000RC
Releasing Control Panel

Harrington Signal Inc.
2519 4th Avenue, Moline, Illinois 61265
P.O. Box 590, Moline, Illinois 61266-0590
Phone: (800) 577-5758 Local: (309) 762-0731 Fax: (309) 762-8215
Internet: www.harringtonfire.com



MEA



Features

- Initiating Zones - (2) Selectable Style D (Class A) or Style B (Class B) zones for smoke and/or heat detectors. Compatible with 2 or 4-wire detectors. (1) Selectable, Style D (Class A) or Style B (Class B) manual zone
- Supervisory Zone - (1) Style B (Class B)
- Indicating Appliance Circuit - (2) Style Y (Class B) each rated 1.0 Amp at 24VDC
- Abort Circuit - (1) Style B (Class B)
- Releasing Circuit - (1) Style Y (Class B) rated 1.0 Amp at 24VDC
- Pre-discharge Timer - Selectable 0 to 60 seconds; in 10 second increments with 5 modes of activation, i.e. single zone, cross zone, sequential, cross/sequential, or manual circuit activation
- Discharge Timer - Selectable for two minutes, or continuous, releasing circuit activation
- Auxiliary Power Output - To operate 4-wire detectors, door holders, etc. Rated 500mA at 24VDC
- Power Limited Circuits - All circuits powered from the panel are power limited
- One Man Test Feature - Panel automatically resets when in this mode
- LCD Display Panel - 32 character alpha-numeric display with backlight indicates all alarm, trouble, and supervisory conditions in an English format
- Trouble Buzzer - Built in
- Silence Switch - One switch silences alarm or trouble
- Reset Delay - 3 second delay prevents accidental reset
- Auxiliary Contacts - One set each for trouble and alarm. Rated 2.0 Amps at 30VDC. Output for optional alarm relay
- Standby Battery - Available for 24, 60, or 90 hours standby
- Listings and Approvals - UL,



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FM, NYMEA and CSFM

- Service Use - Designed to meet NFPA Standards 12, 12A, 12B, 13, 17 and 72
- Housing - 18-1/4" x 14-1/4" x 4-3/4" - 18 gauge steel with hinged, removable, locked cover. Standard finish is red with black and white trim.

Ordering Information

Model No.	Part No.	Description
PFC-2000RC	345-0279	Releasing Fire Alarm Control Panel in red surface cabinet with (1) SIDC, (1) MIDC, (1) RNAC, (2) AIDC and (2) NAC
BT-R	345-0547	Bezel trim for semi-flush mounting, red
12V4AH	313-0277	Battery, 12V 4.0AH for 24 hour standby (2 required)
12V8AH	313-0130	Battery, 12V 8.0AH for 24 hour standby (2 required)
12V12AH	313-0286	Battery, 12V 12.0AH for 24 hour standby (2 required)
BC-1	345-0592	Matching surface battery cabinet, red
ARM-2	349-0594	(3) DPDT (Form C) relays for first & second alarms & discharge functions



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Architects/Engineers Specifications

The control panel for the fire alarm, extinguishing agent releasing system shall be a Harrington Signal Model PFC-2000RC. It shall be listed by Underwriters Laboratories Inc. and approved by Factory Mutual Research Corporation and comply with National Fire Protection Association Standards 12, 12A, 12B, 13, 17 and 72.

The housing shall be 18 gauge sheet steel and shall have a hinged, removable door with a key lock. The finish shall be baked enamel. An optional trim bezel shall be available for semi-flush mounting. The unit shall be microprocessor based and the main circuit board module shall be removable without disconnecting the field wiring.

A combination power supply/battery charger shall be provided as part of the control. Adequate space shall be provided for standby batteries that are capable of operating the system for up to 24 hours. A matching battery cabinet shall be available to house batteries capable of operating the system for up to 90 hours. All over-current protection devices shall be resettable type circuit breakers. All circuits powered from the control panel shall meet Underwriters Laboratories Inc. requirements for power limited circuits. Regulated 24VDC rated at .5 Amp shall be available for the operation of 4-wire detectors or other auxiliary devices.

Two supervised initiating device circuits, for smoke and/or heat detectors, with a capacity of 25-100 μ A, 2-wire detectors shall be provided. A separate manual station circuit shall also be provided. Each circuit shall be switch selectable to be Style D (Class A) or Style B (Class B).

Two supervised signal indicating device circuits shall be provided that reverse polarity when an alarm condition occurs. These circuits shall supply regulated 24VDC rated at 1.0 Amp to the indicating devices.

A separate, supervised Style B (Class B) supervisory circuit shall be provided for the connection of such items as valve, pressure or temperature

monitoring switches. Operation of this circuit shall result in a distinct supervisory indication.

A supervised extinguishing agent releasing circuit shall be provided that reverses polarity when a releasing condition occurs. This circuit shall be rated at 24VDC, 1.0 Amp continuous or 3 Amps momentary.

The following visual indicators shall be visible with the door closed: AC ON - Green LED, ALARM - Red LED, SUPERVISORY - Yellow LED, TROUBLE - Yellow LED and DISCHARGED - Red LED. A 32 character alpha-numeric liquid crystal display, with backlight, shall also be provided to display, in an English format, the condition, status and circuit for all Alarm, Trouble and Supervisory signals. The time to discharge will be displayed whenever the pre-discharge timer is activated.

The unit shall contain the following Control Switches: A common Silence Switch that silences the alarm indicating devices and trouble buzzer; a Reset Switch that must be held for 3 seconds to prevent accidental resetting; a Test Switch that turns on all Alarm and Trouble indicators and outputs; a Zone Disable Switch for each zone; a Releasing Circuit Disable Switch, and an Auto-Reset Switch that disables the latching function making a "One Man Test" possible.

A pre-discharge timer that is switch selectable from 0 to 60 seconds, in 10 second increments, shall be provided. This timer shall have 5 switch selectable modes of operation: Single Zone, Cross Zone, Sequential, Cross/Sequential or Manual Circuit. A discharge timer with selectable periods of 2 minutes or continuous shall also be provided.

One set of form C (SPDT) contacts shall be provided for each system alarm and system trouble. The contacts shall be rated at 2 Amps-30 Volts.

The end of the line resistors for all circuits shall be the same value. All selectable operating modes shall be switch selectable and the panel shall be free of programming jumpers.

NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information are provided with the product and are available from Harrington Signal Inc. Fire Alarm. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact Harrington Signal Inc. Harrington Signal Inc. Fire Alarm reserves the right to change specifications without notice. Quality manufactured for Harrington Signal Inc. Fire Alarm by Potter.