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PFC-4410RC

Releasing Control Panel



Description

The Harrington Model PFC-4410RC is a flexible multi-hazard releasing control panel that is well suited for a number of applications. The PFC-4410RC is listed for use with pre-action and deluge sprinkler suppression systems and agent based fire suppression systems.

The panel utilizes a microprocessor based system that has 19 Standard Programs, which covers a majority of installations. The simple to follow Menu Structure programs the entire system in a matter of minutes. In addition to the Standard Programs, the panel allows custom programming to accommodate any installation.

The panel is Ninth Edition UL listed, ULC listed, Factory Mutual, California State Fire Marshal (CSFM) and New York Materials Equipment Acceptance (MEA) approved.

The PFC-4410RC is housed in a durable steel cabinet with removable door and key lock. The panel is available in either a red or white finish and an optional flush mount trim ring is available. The

cabinet contains knockouts on the side, back and top of the cabinet to ease installation. In addition, the cabinet will house up to 18 amp-hour batteries that will provide in excess of 90 hours of standby power.

Features

- Multi-Hazard Operation
- Four Class B Initiating Circuits
- Two Class B Supervisory Circuits **
- Four Class B Output Circuits
- Programmable Cross Zoning
- Supervised Microprocessor
- 32 Character Alpha-Numeric LCD Display
- Custom Banner Message and Zone Description Text
- On Board Menu Driven Programming Controls False Activation
- Releasing Circuits Protected From False Activation
- Continuous or Timed Discharge
- 40 Event History Buffer
- Walktest with Automatic Time-out
- Alarm, Trouble Supervisory, and Waterflow Relays
- Optional Class A Initiating Zone and Output Module
- 34 Character LED Supplemental Display



- 19 Standard Programs in Panel Memory
- Password Protection for all Programming
- 24 Hour Clock
- Suitable for agent or water based extinguishing
- Programmable pre-discharge timers*
- One Class B Abort Circuit* (Defaults to additional supervisory zone in water based mode.)
- Three Abort Modes*

* Available in Chemical Mode Only
 ** One Zone Programmable as abort in Chemical Mode

Ordering Information

Model Number	Part Number	Description
PFC-4410RC	345-0472	4 Zone Releasing Control Panel, Red
PFC-TR	345-0547	Bezel trim for Semi-Flush Mounting, Red
CA2Z	345-0509	2 Zone Style D (Class A) Initiating Circuit Module Converter
CAM	345-0002	2 Circuit Style Z (Class A) Indicating Circuit Module Converter
ARM-2	349-0594	Auxiliary Relay Module
RA-4410RC	RA-4410RC	Remote Annunciator

Architect/Engineering Specifications

The control panel for the extinguishing agent releasing system shall be a microprocessor based control capable of protecting multiple hazards in one control panel. It shall be UL listed under Standard 864 Ninth Edition and UL of Canada for Local Control Units for Releasing Service. The control shall also be approved by Factory Mutual Research Corp. and be compliant with the requirements of NFPA-72, (Local: A, M, SS service types; DAC and NC signaling type) and NFPA-12, NFPA-12A, NFPA-13, NFPA-15, NFPA-16, NFPA-17, NFPA-17A, NFPA-750 and NFPA-2001.

The control shall be housed in an 18 gauge sheet steel cabinet that has a hinged, removable door with a key lock. The finish shall be baked enamel and available in red or off-white with contrasting trim and logo. An optional matching bezel should be available for semi-flush mounting. The cabinet shall have adequate space to house 18 AH standby batteries capable of operating the system for up to 90 hours.

The control shall include a fully supervised integral power supply/battery charger capable of providing 200mA to the auxiliary power circuit. It shall also be capable of providing 2.5 Amps to all releasing and notification appliance circuits combined. All initiating, output and auxiliary power circuits shall be power limited.

The control shall have a 32 character (16 characters, 2 lines) backlit LCD display and a 34 LED supplemental display. All diagnostic and alarm event information shall be viewable in text form on this display. A field programmable custom banner message with the current date and time shall be displayed when no current alarm or diagnostic information exists.

All operational features of the control panel shall be field programmable using menu driven selections on the alpha-numeric display and on-board controls. No special programmer will be required and jumpers or switches to configure operational features shall not be permitted. Alarm and trouble indications shall resound when required.

The control panel shall be equipped with 19 programs built into the panel memory, 13 for water-based extinguishing and 6 for agent extinguishing. In addition, the panel shall have the ability to add custom programs. All programming functions shall be password protected.

The control panel shall have four fully supervised Class B (Style B) initiating circuits capable of supporting the operation of 25 compatible 2-wire smoke detectors on each circuit.

The individual circuits shall be selectable through the programming sequence to operate in one of the following modes: Conventional, Waterflow, Linear Heat Detection (10,000 ft. per zone), Manual Release, Low Air Alarm, Supervisory, Tamper, Low Air or High Air.

Optional Class A modules, CA2Z, may be added for Class A operation. The panel shall have a Low Air Zone that creates a supervisory condition and map to an output. UL and ULC Listed, FM Approved, NYMEA Accepted, and CSFM Approved.

The control shall have two fully supervised Class B (Style B) supervisory circuits. These circuits shall be selectable through the programming sequence to operate in one of the following modes: Supervisory, Tamper, Low Air or High Air.

The control shall have one fully supervised Class B (Style B) Abort Circuit with 3 different operating modes, ULI, IRI, and NYC.



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Releasing Control Panel

Architect/Engineering Specifications Continued

The control shall have four fully supervised Class B (Style Y) output circuits. These circuits shall be selectable through the programming sequence to operate as one of the following: Alarm Notification Appliance, Supervisory Notification Appliance, Trouble Notification Appliance or Releasing. The optional CAM module may be added to convert the outputs to Class A.

The panel shall have an RS-485 output and auxiliary power outputs for connection and supervision of up to 4 remote annunciators.

The releasing circuits shall be supervised for short circuit conditions and shall be programmable for cross zoning operation when required. The discharge timer for these releasing circuits shall be programmable for times of 7, 8, 9, 10, 20 minutes or continuous. All initiating and output circuits shall be capable of being individually disabled or enabled. In addition, when in the agent extinguishing mode there shall be a pre-discharge timer adjustable from 0-60 seconds from an alarm zone or 0-30 seconds from a manual release zone.

The control shall have a test mode that will automatically disable all releasing circuits. The test mode shall operate in such a manner as to automatically reset the initiating circuit and indicating circuits after detecting each alarm condition initiated by the test. All testing shall be recorded in the 40 event history buffer. The test mode will automatically terminate after twenty minutes of inactivity.

The control shall have four integral relay contacts rated 3 Amps at 30 VDC for connection to external auxiliary equipment. One relay shall operate when an alarm condition occurs, another when a trouble signal occurs, the third when an supervisory condition occurs, and the fourth during a waterflow condition.

UL and ULC Listed, FM Approved, NYMEA Accepted, and CSFM Approved.

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 by Potter Electric Signal Company.