



**PFC-4410**

Releasing Control Panel

Harrington Signal Inc.  
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**MEA**



**Features**

- Multi-Hazard Operation
- Supervised Microprocessor
- 32 Character Alpha-Numeric LCD Display
- Custom Banner Message Text
- Custom Zone Description Text
- On Board Menu Driven Programming Controls
- Releasing Circuits Protected From False Activation
- Four Style B (Class B) Initiating Circuits
- One Style B (Class B) Supervisory Circuit
- Four Style Y (Class B) Output Circuits
- Programmable Cross Zoning
- Continuous or Timed Discharge
- 40 Event History buffer
- Walktest with Automatic Timeout
- Alarm, Trouble and Supervisory Relays
- Optional Style D (Class A)

- Initiating Zone Module
- Optional Style Z (Class A) Output Zone Module
- 8 Standard Programs in Panel Memory
- Password Protection for all Programming
- 24 Hour Clock
- 18-1/4" x 14-1/4" x 4-3/4" Cabinet size

**General Description**

The Harrington Model PFC-4410 is a microprocessor based multi-hazard releasing control panel for use on pre-action and deluge type sprinkler systems. The Model PFC-4410 is Underwriters Laboratories Listed and complies with UL Standard 864 for Local Control Units for Releasing Service. It is designed to be compatible with the requirements of NFPA-72, NFPA-13, NFPA-15 and NFPA-16. The PFC-4410 is FM, NYMEA and CSFM Approved.



The PFC is housed in a steel cabinet with removable door and key lock. Standard finish is red with black and white trim. A matching bezel is available as an option for semi-flush mounting in a wall. The cabinet will house up to a 12AH standby battery, which is capable of powering the unit in excess of 90 hours.

**Ordering Information**

Model No.	Part No.	Description
PFC-4410	345-0472	4 Zone Releasing Control Panel, red
BT-R	345-0547	Bezel Trim for Semi-Flush Mounting, red
12V4AH	313-0277	Battery, 12V 4AH for 24-hour Standby (2 required)
12V8AH	313-0130	Battery, 12V 8AH for 60-hour Standby (2 required)
12V12AH	313-0286	Battery, 12V 12AH for 90-hour Standby (2 required)
CA2Z-4410	345-0509	2 Zone Style D (Class A) Initiating Circuit Module Converter
CAM-4410	345-0002	2 Circuit Style Z (Class A) Indicating Circuit Module Converter
ARM-2	349-0594	Auxiliary Relay Module
BC-1	345-0592	Matching surface battery cabinet, red



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### Architect/Engineers 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 Underwriters Laboratory listed under Standard 864 for Local Control Units for Releasing Service. The control shall also be approved by Factory Mutual Research Corporation and be compatible with the requirements of NFPA-72 (Local: A, M, SS service types; NC signaling type) and NFPA-13, NFPA-15, and NFPA-16.

The control shall be housed in an 18 gauge steel cabinet that has a hinged, removable door with a key lock. The finish shall be baked enamel and available in red with contrasting trim and logo. An optional matching bezel should be available for semi-flush mounting. The cabinet shall have adequate space to house 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 indicating appliance circuits combined. All initiating, output and auxiliary power circuits shall be power limited.

The control shall have a 32 character (16 x 2) backlit LCD 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 8 programs built into the panel memory, along with the ability to add custom programs. All programming functions

shall be password protected.

The control panel shall have four fully supervised Style B (Class 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 (3500 ft. max. per zone), Manual Dump, Supervisory, Tamper, Low Air or High Air.

The control shall have one fully supervised Style B (Class B) supervisory circuit. This circuit 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 four fully supervised Style Y (Class B) 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 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 individually disabled or enabled.

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. The test mode will automatically terminate after twenty minutes of inactivity.

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

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.