



**UL Listed, FM Approved, NYMEA Accepted, CSFM Approved**

**GENERAL DESCRIPTION**

The Potter Model PFC-4410-RC is a microprocessor based multi-hazard releasing control panel for use on pre-action and deluge type sprinkler systems as well as chemical extinguishing systems. The model PFC-4410-RC 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-12, NFPA-12A, NFPA-13, NFPA-15, NFPA-16, NFPA-17, NFPA-17A, NFPA-72, NFPA-750, and NFPA-2001.

The PFC-4410-RC is housed in a steel cabinet with removable door and key lock. Standard finish is off-white with gray and red trim. Red cabinets with black and white trim are also available. 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.

**DIMENSIONS:** 18 1/4" X 14 1/4" X 4 3/4"

**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 Class B Initiating Circuits
- One Class B Supervisory Circuit
- Four Class B Output Circuits
- Programmable Cross Zoning
- Continuous or Timed Discharge
- 40 Event History Buffer
- Walktest with Automatic Time-out
- Alarm, Trouble and Supervisory Relays
- Optional Class A Initiating Zone Module
- Optional Class A Output Zone Module
- 19 Standard Programs in Panel Memory
- Password Protection for all Programming
- 24 Hour Clock
- Supervised Remote annunciator output
- Suitable for chemical or waterbased extinguishing
- Programmable 0-60 second pre-discharge timer\*
- Programmable 0-30 second manual release pre-discharge timer\*
- One Class B Abort circuit\*
- Three Abort modes\*

\* Available in Chemical mode only

**ORDERING INFORMATION**

Model Number	Description	Stock Number
PFC-4410-RC	4 Zone Releasing Control (White Cabinet)	3006200
PFC-4410-RC	4 Zone Releasing Control (Red Cabinet)	3006203
PFC-TW	Bezel for Semi-Flush Mounting (White)	5080107
PFC-TR	Bezel for Semi-Flush Mounting (Red)	5090114
BT-40	Battery, 12V 4AH for 24 hour standby (2 Req'd)	5130092
BT-80	Battery, 12V 8AH for 60 hour standby (2 Req'd)	5130084
BT-120	Battery, 12V 12AH for 90 hour standby (2 Req'd)	5130090
CA2Z	2 Zone Class A Initiating Circuit Module	3006013
CAM	Class A Indicating Circuit Module	3005300
ARM-2	Auxiliary Relay Module	3006300
RA-4410-RC	Remote Annunciator	3004725

## ARCHITECTS/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 Laboratories Inc. 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 NFPA12, NFPA12A, NFPA-13, NFPA-15, NFPA-16, NFPA-17, NFPA-17A, NFPA-750, and NFPA-2001.

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 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 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. 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 waterbased extinguishing and 6 for chemical extinguishing. In addition, the panel shall have the ability to add custom programs. All programming functions shall be password protected.

The control 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 (3500 ft. max. 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 control shall have one fully supervised Class B (Style 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 one fully supervised class B (style B) Abort circuit with 3 different operating modes, ULI, IRI, and NYC.

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 chemical 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 three integral SPDT 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, and the third when a supervisory condition occurs.