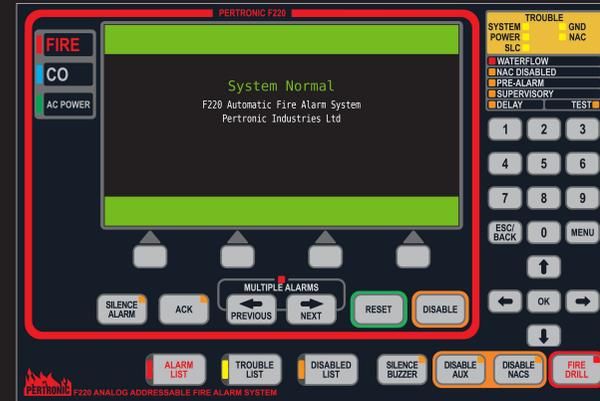
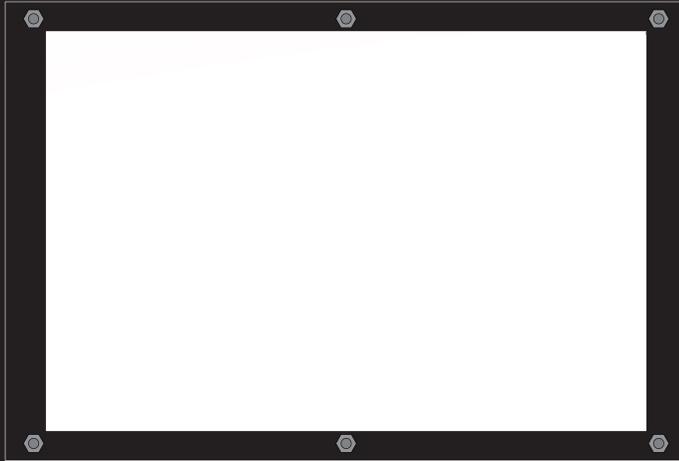




Figure 3. F220-2L factory-printed label

 <b>F220-2L</b>	
<b>FCC ID: 2BAMRF220-2L</b>	
<div style="border: 1px solid black; padding: 5px; display: inline-block;">SERIAL NUMBER</div>	
 <b>S36464</b> SAFETY SIGNALING US FIRE ALARM EQUIPMENT	
TESTED:	
DATE:	
CHECKED:	
DATE:	

Dimensions = 48mm x 76mm  
Corner Radius = 0.5mm  
Material = White, Matt  
Print Colour = Black  
**DO NOT PRINT MAGENTA OUTLINE**



**F220 FIRE ALARM CONTROL PANEL OPERATING INSTRUCTIONS**

**Normal** - All LEDs off, except for the green AC Power LED. LCD displays System Normal and green beeps.

**Alarm** - The LED is flashing red, and evacuation sounders and strobes will be operating. Evacuate the protected area. Notify the monitoring service and/or the Fire Department immediately. The upper half of the LCD will display First Alarm information between red beeps and the red Alarm Led indicator will be on.

**Alarm Acknowledge** - Press ACK to acknowledge all alarms. The yellow Ack indicator will turn solid on (i.e., no longer flashing).

**Acknowledging all alarms** will silence buzzers on panels and annunciators. Location sounders and strobes will continue to operate.

**Alarm Silence** - Press the Silence Alarm key to silence all alarms. The yellow Silence Alarm indicator will be on.

If a new alarm occurs while the Silence Alarm is active and the yellow Silence Alarm indicator will turn off.

Pressing Silence Alarm when alarms are already silenced will reactivate the sounders and strobes, and turn off the Silence Alarm indicator.

**Alarm Reset** - Press the Reset key to reset all alarms.

If there are no more alarms then the System Normal will resume. Pressing Silence will always clear all latched events, including alarms and supervisory events.

**Alarm Test** - Press the Fire Drill key and the red Fire Drill indicator will turn on and evacuation sounders will operate.

Press the Fire Drill key again to turn off the Fire Drill function. Sounders and strobes will deactivate, and the red Fire Drill indicator will turn off.

**Trouble** - The yellow Trouble List indicator will be on, and one or more trouble indicators may be on (System, GND, Power, NAC, SLC).

Press the Trouble List key to see a list of troubles. For further detail, select a trouble in the list with the Up/Down arrow keys.

**Trouble Acknowledge** - Press ACK to acknowledge all troubles. The yellow Ack indicator will turn solid on (i.e., no longer flashing).

Acknowledging all troubles will silence buzzers on panels and annunciators. The Silence Buzzer indicator will also turn on.

The silence time will be automatically cleared 30 hours after a trouble if the trouble was not resolved.

**Supervisory Events** - To view supervisory events when alarms are active, press the OK key. For further detail, select an event in the list with the Up/Down arrow keys.

**DO NOT ALLOW TROUBLE CONDITIONS TO REMAIN UNRESOLVED** - The protection provided by the F220 system could be compromised if a trouble exists.

In the event of battery trouble, check the battery fuse located inline on the battery cable. Replace only with fast acting 15A SAGSAB style fuse.

Recommended maintenance by suitably trained & qualified personnel - Refer to the F220 Automatic Fire Alarm Technical Manual, United States.

Quarterly Visual inspection of supervisory signal devices, sensor devices.

Semianual Visual inspection of alarm notification devices, VFLA batteries, panel trouble signals, emergency vocal alarm communications equipment, initiating devices, electromechanical releasing devices, remote annunciators, transient suppressors, remote equipment, signal commutator.

Semianual Testing of VFLA batteries, emergency vocal alarm communications equipment.

Annual Visual inspection of panel LEDs, inhaled equipment, primary power supply, fire cable connections, all other equipment.

Annual Testing of F220 panel functions & indicators & power supply, inhaled equipment, alarm notification appliances, VFLA batteries, fire cable, trouble signals, electromechanical releasing devices, remote annunciators, signal alarm commutator.

Biannual Testing of smoke detector sensitivities.

LOCAL SERVICE REPRESENTATIVE

**F220 FIRE ALARM CONTROL PANEL**  
**Fire Alarm Equipment, Commercial Protected Premises Control Unit**

**Local Control Unit System**  
**Central Station (PPU)**

**Applicable NFPA Standards:** When this control panel is installed indoors in a dry location in an ambient air temperature range of 0°C (32°F) to 40°C (104°F) and in accordance with the referenced manual and factoring in factors, comply with NFPA 72 National Electrical Code (NFPA 72) National Fire Alarm Code. Note: Not suitable for Remote Station Protected Premises Service where separate transmission circuits are required for Fire Supervisory when applicable and Trouble Signals.

**Type of Service:** Manual Fire Alarm Automatic Fire Alarm & Supervisory, Fire Suppression Monitoring, Activation of Fire Suppression System, Activation of Emergency Control Functions, Activation of Fire Alarm Notification Appliances, Automatic Carbon Monoxide Supervision Signal Transfer, Activation of Carbon Monoxide Notification Appliances, Activation of CP Permitted Signals.

**Type of Signaling Service:** Inaudible, Steady, Interrupted, 3 Beeps, Performance Based Technologies & Other Transmission Technologies, Class B or X Power-Limited RS 485 Intrazone Communications, Class A or J Fire Network Communications, Class B Power-Limited RS 485 Intrazone Communications or CP-Permitted Digital Alarm Radio Transmitter Signaling Device.

**Electrical Ratings:** 100-120Vac rms. Connect to the branch circuit using 10-16AWG copper and a 15A circuit breaker.

This system must be installed, maintained and operated in accordance with the following documents:  
 1. Pertronics F220 Automatic Fire Alarm Technical Manual, United States (0001) F220 Tech Manual US 04/04  
 2. Fire Units Manual (0022) FireUnits User Guide US 04/04  
 Available at <https://info.pertronics.net/CD220resources>

**WARNING: DE-ENERGIZE UNIT PRIOR TO SERVICING.**  
**DISCONNECT AC POWER BEFORE OPENING THE INNER DOOR.**

**CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. USE ONLY 20V NiMH ADR OR GEL BATTERY. 7.42Ah CAPACITY. DISPOSE OF USED BATTERIES ACCORDING TO THE LOCAL REGULATIONS.**

**WARNING: THIS UNIT INCLUDES AN ALARM VERIFICATION FEATURE. IF ENABLED, IT WILL RESULT IN UP TO A 60 s DELAY FOR SMOKE ALARM ACTIVATIONS, TUNING ON NOTIFICATION APPLIANCES, AND SENDING SIGNALS TO ANY CONNECTED CENTRAL STATION OR OTHER SERVICES.**

Circuit (Zone)	Control Unit Delay, Seconds	Alarm Delay, Seconds	
		Mode	Delay, Seconds

The delay (power-up/start-up) time marked on the installation wiring diagram of the smoke detector(s) is to be used.

The device complies with part 15 of the FCC Rules. Operation is subject to the following conditions:  
 (1) This device may not cause harmful interference, and  
 (2) This device must accept any interference received, including interference that may cause undesired operation.

