

Because Lives, Property and Businesses aren't Fireproof.



# HS-2200/2400 Series

## Fire Alarm Control Panels

Harrington Signal Inc.  
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### Features

- **Listings and Approvals** – UL, CSFM, and MEA Listed.
- **Microprocessor Base Control Panel**
- **Initiating Zones** – 2 IDC's in the HS 2200, 4 IDC's in the HS 2400. Selectable Style D (Class A) or Style B (Class B). Compatible with 2 or 4 wire detectors, selectable alarm verification. Accommodates up to 25 compatibility listed two wire smoke detectors per zone. Zone disconnect switches are provided.
- **Supervisory Zone** – One Style B (Class B).
- **Signaling Circuits** – 1 NAC in the HS 2200, 2 NAC's in the HS 2400, Style Y, (Class B) rated 1.0 A, 24V DC. Optional Style Z (Class A) NAC's module available.
- **2 Remote Station Outputs** – Reverse polarity type, selectable second output for supervisory and trouble signals.
- **Auxiliary Power Output** – To operate 4 wire detectors, door holders, etc., rated 500MA, 24V DC, resettable.
- **Remote Annunciator Outputs** – Alarm by zone,

supervisory and system trouble, positive voltage outputs, rated 25mA, 24V DC.

- **One Man Test Features** – Panel automatically resets when in this mode.
- **Digital Communicator Option** – Available for internal or external mounting.
- **Master Box Module Option**
- **Power Limited Circuits** – All circuits powered from the panel are power limited circuits.
- **Printed Circuit Board** – Removable without disconnecting field wiring.
- **Diagnostic Indicators** – Trouble per zone, supervisory circuit trouble, signaling circuit trouble. Battery trouble (high-low, missing), remote station disconnected, annunciator trouble, ground fault, auxiliary power trouble.
- **Trouble Buzzer** – Built in.
- **Silence Switch** – One switch silences alarm or trouble.
- **Reset Delay** – 3 seconds delay prevents accidental reset.
- **Auxiliary Contacts** – One set for alarm, one set for system trouble. Rated 2A, 30V DC.



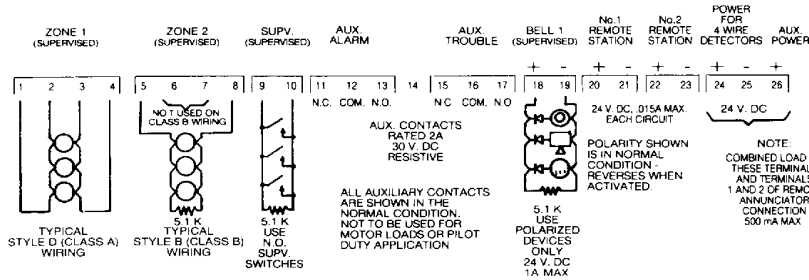
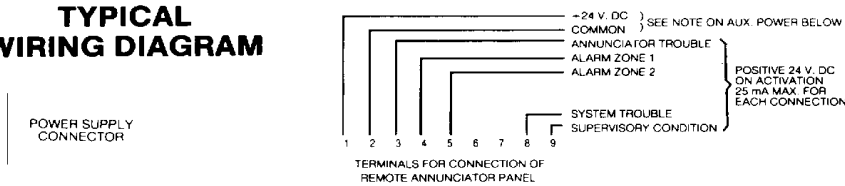
- **Zone Labeling Magnetic Holder** – Provides simple method to attach zone information.
- **Housing** – 18 1/4" x 14 1/4" x 4 3/4" – 18 gauge steel with hinged, removable locked cover. Standard finish is red with white trim and logo.
- **Battery** – Available for 24 hrs. or 60 hrs.
- **Service Use** – NFPA 72 - Central Station, Local Protective, Auxiliary Protective, Remote Station Protective, and Proprietary Protective Signaling Systems.

### Ordering Information

Model Number	Part Number	Description
HS-2200	345-0185	2 zone control (red)
HS-2400	345-0186	4 zone control (red)
2200/2400BT	345-0187	Bezel Trim for semi-flush mounting (red)
RA4Z	222-0039	4 zone Remote Annunciator
2200/2400CAM	345-0234	Style Z (Class A) Signaling Circuit Module (1 per circuit required)
2200/2400MBM	345-0235	Master Box Module

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## TYPICAL WIRING DIAGRAM



- NOTES**
- 1) USE ONLY SMOKE DETECTORS THAT ARE LISTED IN COMPATIBILITY LIST. LIMIT 25-100µA DETECTORS.
  - 2) ANY FIRE ZONE CAN BE OPERATED IN A CLASS A MODE. PLEASE REFER TO INSTRUCTION MANUAL.
  - 3) LEAVE END OF LINE RESISTORS ON UNUSED CIRCUITS.
  - 4) ALL CIRCUITS POWERED BY THIS CONTROL ARE POWER LIMITED
  - 5) COMBINED LOAD OF ALL EXTERNAL DEVICES INCLUDING SIGNALING DEVICES NOT TO EXCEED 3 AMPS.

SERIES HS-2200/2400  
FIRE ALARM CONTROL PANEL

### Architect & Engineer Specifications

The control panel for the fire alarm system shall be a model HS-2200/2400 by Harrington Signal, Inc. of Moline, IL. It shall be UL Listed and comply with NFPA Standard 72. The housing shall be 18 gauge sheet steel and shall have a hinged, removable door with a key lock. An optional trim bezel shall be available for flush mounting. The unit shall be micro-processor based and main circuit board module shall be removable without disconnecting the field wiring. A combination power supply/battery charger shall be provided as a part of the control. The enclosure shall contain adequate space for standby batteries that are capable of operating the unit for up to 60 hrs. All circuits powered from the control panel shall meet UL requirements for power limited circuits. Supervised initiating device circuits with a capacity of 25-100µA two wire detectors shall be provided. Each circuit shall be switch selectable to be Style D (Class A) or Style B (Class B). In addition each circuit shall be switch selectable to operate in an alarm verification mode or in a waterflow mode. When operated in a waterflow mode, it shall not be possible to silence the devices connected to the indicating device circuit until the panel is reset. Regulated resettable, 24 V. DC rated at 1/2 Amp shall be available for the operation of 4-wire detectors or other auxiliary devices. Supervised signal indicating device circuits shall be provided that reverse polarity when an alarm condition occurs. These circuits shall supply regulated 24 V. DC 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. This circuit

operation shall result in a distinct supervisory indication. The following indicators shall be visible with door closed: AC on – Green LED, Alarm – one Red LED per zone, System Trouble – Yellow LED, Supervisory – Yellow LED. Additionally, visual Yellow LED diagnostic indicators shall be provided for: Zone Trouble – one for each zone, Supervisory Circuit Trouble, Indicating Device Circuit Trouble, High or Low Battery Trouble, Remote Station Disconnect, Ground Fault, Annunciator Trouble, AC and Battery Circuit Fault and Auxiliary Power Failures. The unit shall contain the following Control Switches: A common Silence that silences the alarm indicating devices and Trouble Buzzer, a Reset that resets the panel, a Test that turns on all indicators, Alarm and Trouble outputs, a Zone Disable for each zone, a Remote Disconnect that prevents transmission of signals to the remote stations. An Auto-Reset that disables the latching function making a “one man test” possible. Terminals shall be provided for connection of a remote annunciator. The annunciator shall be capable of displaying Alarms by zone, System Trouble and a Supervisory condition. 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 DC. Two remote station outputs shall be provided. They shall be of reverse polarity type and shall have the capability of transmitting alarm and trouble signals to one location (remote #1). Supervisory and trouble signals shall be transmitted to a second location (remote #2). All EOL 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 by Harrington Signal Inc.