



HARRINGTON

HS-3400 Analog/Addressable Fire Alarm Control Panel

Harrington Signal Inc.
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ISO 9001
Certified
Management
System

FEATURES

- UL listed/MEA 205-98-E
- Power limited circuits
- Password protection
- Analog/Addressable SLC initiating circuits, 4 class "B", style 4, or 2 class "A", style 6
- Detector sensitivity adjustments
- Alarm Verification by device
- Sprinkler supervision
- One man walk test feature
- Software definable indicating circuits, 6 class "A" or "B" (Style Z or Y), max. of 6 Amp.
- Indicating circuit silence inhibit
- Indicating circuit time limit cut-out
- High powered integrated circuits
- Two(2) auxiliary power outputs, 150mA each
- Two (2) auxiliary function relays, programmable
- Alarm and trouble system relays, fixed
- 4 X 20 Character, Backlit LCD
- Serial annunciator, LED or LCD
- 1,000 Event History Log
- Field programmable via PC
- Limited 5 Year Factory Warranty
- Day/Night Sensitivity per Device
- Cross-zoning
- Digital Communicator Option

DESCRIPTION

The Harrington HS-3400 is an Intelligent Fire Alarm Control Panel with four (4) initiating circuits, class "B" (Style 4) or two (2) class "A" (Style 6), designed for the fire protection industry. The HS-3400 has been developed over a period of several years and utilizes advanced hardware/software features which makes it very powerful while remaining easy to operate and program. The advanced software reduces the need for a lot of hardware, thus making it more affordable than other products in the fire alarm industry.

The HS-3400 system controls and visual indications are contained on the main board which also contains the system processor, programming port, printer port and non-volatile memory for operating program/software. Custom software is installed on the mother board for such critical functions as timing features and non-critical functions such as custom zone and device messages.

The HS-3400 FACP utilizes the System Sensor protocol for input and output devices. All of the analog/addressable devices are continuously polled once every 1-3 seconds



depending upon device count. Any abnormal condition is first checked and verified by the software then displayed and logged in the appropriate manner. Events are reported by the condition (alarm/supervisory/trouble), device type and number, programmable text location, zone, date, and time.

Each of the four (4) class "B" (Style 4) or two (2) class "A" (Style 6) analog/addressable initiating circuit can operate a combination of up to 198 addressable smoke detectors, heat detectors, monitor modules (for contact devices), and relay modules (an addressable output). The breakdown per circuit is 99 smoke or heat detectors and 99 relay or monitor modules to get the 198 point capacity per circuit.

There are a total of six (6) indicating circuits class "A" (Style Z) or "B" (Style Y) rated at 1.0A each with a maximum load of 6A of signaling power. Additional signaling power can be added by utilizing Harrington's ADA power boosters.

There are four (4) sets of form "C" relays built into the main system. Two (2) form "C" relays are fully programmable to be activated upon any input and the other two (2) are fixed for alarm and trouble events.

TECHNICAL DATA

INITIATING CIRCUITS (4 "B", 2 "A")

Voltage 20-28vDC
 Max. # of devices 99 detectors/99 modules
 Compatible devices System Sensor
 Total line capacitance 5 UF

INDICATING CIRCUITS (6 class "A" or "B")

Supervisory current 1.0mA
 Alarm current 1.0A (6A max.)
 Voltage 24vDC (unfiltered)
 End of line device 10K resistor

SYSTEM RELAYS (2)

1.0A @ 30vDC 1-Alarm & 1-Trouble
 .5A @ 120vAC

PROGRAMMABLE RELAYS (2)

.6 @ 120vAC
 2.0 @ 30vDC

DIMENSIONS

14 1/2" W x 20 1/2" H x 4 1/2" D

AUXILIARY POWER OUTPUTS (2)

150 mA each

HS-3109 COMMUNICATION BOARDS

<u>Model</u>	<u>Description</u>
HS-3109-2	Annunciator Communication Board
HS-3109-4	RS-232 Communication Board/Grid

Circuit Description	Class	Style (NFPA-72)	Number of devices	End of line device
Addressable Initiating circuit	A	6	99 Detectors and 99 Modules	Not needed
	B	4		Not needed
Signaling circuit (Horns & Strobes)	A	Z	1.0A per circuit, max. 6A total	Not needed
	B	Y		YES, 10K resistor

ORDERING INFORMATION

<u>Model No.</u>	<u>Description</u>
HS-3400-A	Analog/addressable FACP, 2 class "A" (Style 6) initiating circuits
HS-3400-B	Analog/addressable FACP, 4 class "B" (Style 4) initiating circuits
HS-3736	Semi-flush trim kit for the HS-3400 FACP
HS-3109-2	Annunciator communication board
HS-3109-4	RS-232 communication board
HS-3140	LCD annunciator, 80 character
HS-3140TRIM	Semi-flush trim for the LCD annunciator
HS-2802	8 zone LED annunciator, single gang, semi-flush mounting
HS-3035	Main power supply, for replacement only
HS-DC3-C	Digital dialer in metal enclosure with transformer (D5050 programmer needed)