



## Model SK-2224 2-Zone Conventional Fire Panel



### A simple, powerful, cost-effective panel for basic fire protection applications

The SK-2224 is a two-zone, 24-volt conventional fire alarm control panel. Simple to install and operate, this panel is the state of the art in small fire panels.

The SK-2224 provides a number of powerful features. Two Class B initiation zones, two 1.25 amp notification circuits, and a 2.5 amp power supply are standard features. You simply cannot install more power for the money! Other standard features include a half amp auxiliary power output for special applications such as door holders; dedicated alarm and trouble relays; easy to use on-board annunciator; and a compact cabinet that can house up to two 7.0 AH batteries.

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The Silent Knight SK-2224 provides two Class B zones, two 1.25 amp notification circuits, and a 2.5 amp power supply. Other powerful features include a .5 amp auxiliary power output and two dedicated relays for alarm and trouble.

Programmable features for zones include alarm verification and "enhanced" verification, that allows pull stations to be recognized on smoke verification zones. Zones can also be programmed for zone type (alarm or supervisory), and water flow delay (30, 60, or 90 seconds). Notification appliance circuits can be programmed for silencing or no silence and for ANSI or steady output.

The on-board annunciator is easy to use and provides LED indication of alarm, supervisory and trouble conditions by zone as well as system status.

#### Features

- Two Class B initiation zones
- Two power limited notification circuits rated 1.25A each

- 2.5A power supply
- Dedicated alarm and trouble relays
- Auxiliary power output rated at .5A
- Alarm verification feature
- Enhanced verification feature allows panel to recognize pull stations in smoke verification zones
- Communicator accessory fits in cabinet
- Compact cabinet houses up to two 7.0 AH batteries
- Notification appliance circuits programmable for ANSI or steady output
- Walk Test feature
- UL 864 listed, complies with NFPA 72 and 101
- DIP Switch programmable No programming software or special tools required

#### Specifications

Primary AC	
120 Vrms @ 60 Hz	Order P/N SK-2224
230 Vrms @ 50 Hz	Order P/N SK-4224HV
Total Accessory Load	2.5A
Current Draw:	
Standby	50 mA
Alarm	250 mA



**Model SK-2224**

Dimensions	Height: 15 1/8"
	Width: 12 13/16"
	Depth: 3 3/8"

Color	Red
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#### Optional Accessories

**SK-2884 Serial Driver Board**  
Provides a serial interface with up to four expansion devices (listed below).

**SK-2104 Digital Dialer (Requires SK-2884)**  
UL Listed dual phone line DACT.

**SK-2866 LED Annunciator (Requires SK-2884)**  
Provides up to 12 LEDs for alarms, supervisory, and trouble conditions.

**SK-2880 I/O Module (Requires SK-2884)**  
Provides 34 pre-defined open collector outputs, Two supervised switch inputs, and 3 form C relays.



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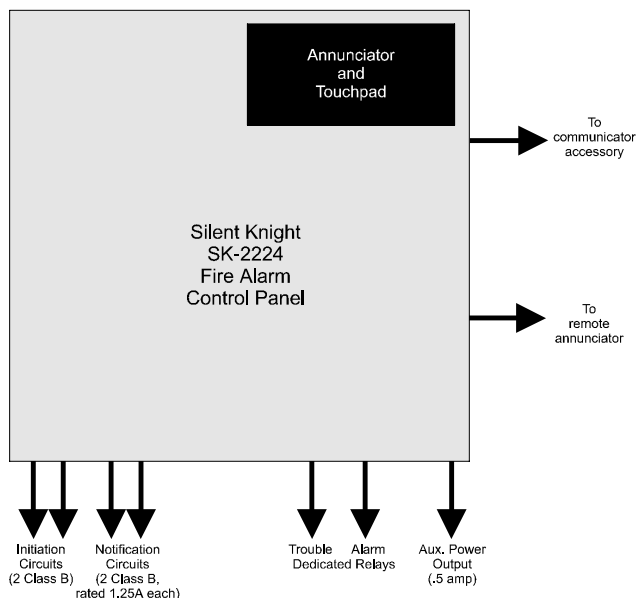


## Engineering Specifications

The contractor shall provide a completely electrically supervised fire alarm control panel Silent Knight Model SK-2224. The system shall contain a fire alarm control panel capable of operating and supervising smoke detection devices, alarm notification devices, and an on-board annunciator. It shall be compatible with a digital communicator accessory which is housed in the control cabinetry.

The fire alarm control panel shall have a 2.5 amp power limited supply, two Class B initiation circuits which shall accommodate heat detectors, smoke detectors, and manual pull stations. Smoke detection shall be achieved with either 2- or 4-wire detectors that are compatible with the system. The initiation inputs shall be programmable as 1) verification zones in which detectors are automatically reset one time before signaling an alarm condition; 2) enhanced verification zones which can recognize pull stations when smoke verification is in use in a zone and will signal an alarm immediately (will not reset) if the alarm has come from a pull station; and 3) water flow delay zones in which the system waits 30, 60, or 90 seconds, as programmed, before signaling an alarm condition. The FACP shall have two 1.25 amp notification outputs which are programmable as silenceable or not silenceable and ANSI cadence or steady. The FACP shall be capable of supporting four remote LED annunciators and shall have dedicated relays for alarm and trouble and an auxiliary power output rated at .5 amp.

The FACP shall have an on-board annunciator to indicate alarm, supervisory, trouble, and status conditions. The annunciator must include LEDs for AC, GENERAL TROUBLE, SYSTEM SILENCED, WALK TEST, GROUND FAULT, AND LOW BATTERY. The annunciator shall also contain LEDs to annunciate alarms, troubles, and supervisory by zone. The FACP must be fully operational from the annunciator and include buttons for ACKNOWLEDGE, SILENCE, RESET, and WALK TEST. The annunciator must also have separate DISABLE switches for each zone and notification circuit; SILENCE, RESET, and WALK TEST.



**SK-2224 Block Diagram**



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**MADE IN AMERICA**

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