



## Model SK-4224 4-Zone Conventional Fire Panel



**A flexible, powerful, cost-effective panel for fire protection applications**

The SK-4224 is a 4-zone 24-volt conventional fire alarm panel with a powerful feature set that makes it the most flexible, easy to use fire control panel available.

The SK-4224 has a 2.5 amp 24 VDC power supply, dedicated alarm and trouble relays, four Class B Style B inputs and two 2.5 amp Class B Style Y outputs. These can be programmed to operate as two Class A style D inputs with one 2.5 amp Class A Style Z output when Class A operation is desired. The panel also features an innovative notification expansion input that allows the SK-4224 to act as a 2.5 amp ADA notification expander! The SK-4224 is a class leading control panel that provides a cost effective solution to your fire control needs.

### Model SK-4224

#### 4-Zone Conventional Fire Panel

The Silent Knight SK-4224 provides class A and B operation, 2.5 amps of notification power and dedicated form "C" alarm and trouble relays.

Programmable features for zones include alarm verification and "enhanced" verification, that allows pull stations to be recognized instantly 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

- Four Class B Style B initiation zones (or they can be programmed to be two Class A Style D zones)
- Two Class B Style Y power limited notification circuits rated 2.5A each (or they can be programmed to be one Class A Style Z circuit)
- 2.5A power supply
- Dedicated alarm and trouble relays
- Auxiliary power output rated at .5A
- Alarm verification feature
- Enhanced verification feature allows panel to instantly recognize pull stations in smoke verification zones
- Plug-in communicator accessory fits in cabinet
- Compact cabinet houses up to two 7.0 AH batteries
- Notification appliance circuits programmable for ANSI or steady output
- One person Walk Test feature
- UL 864 listed, complies with NFPA 72 and 101
- DIP Switch programmable  
No programming software or special tools required
- Approved for use as an ADA notification power supply expander



**Model SK-4224**

### Specifications

Primary AC	
120 Vrms @ 60 Hz	Order P/N 4224
230 Vrms @ 50 Hz	Order P/N 4224HV
Total Accessory Load	2.5A
Current Draw:	
Standby	65 mA
Alarm	250 mA
Dimensions	
	Height: 15 1/8"
	Width: 12 13/16"
	Depth: 3 3/8"
Color	Red



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### Engineering Specifications

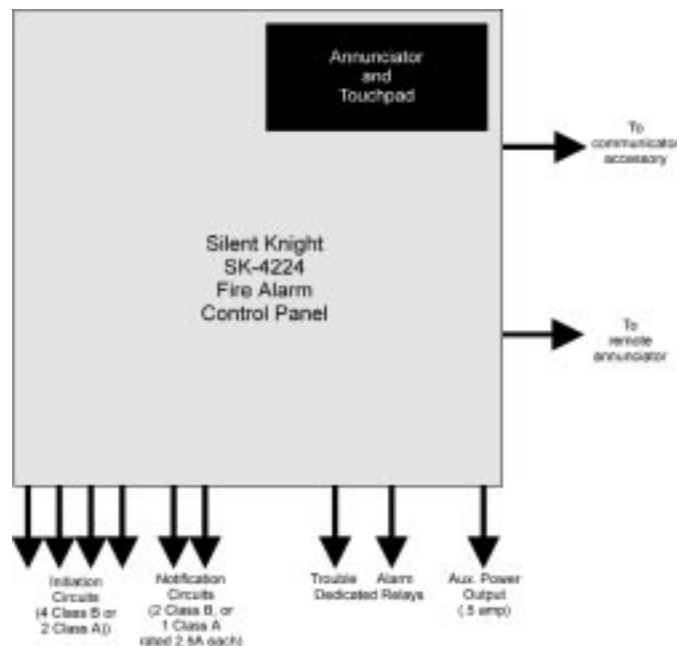
The contractor shall provide a completely electrically supervised fire alarm control panel Silent Knight Model SK-4224. The system shall contain a fire alarm control panel capable of operating and supervising smoke detection devices, alarm notification devices, and an on-board annunciator. It shall be 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, four Class B initiation circuits which can be programmed as two Class A Style D initiating circuits, 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 2.5 amp notification outputs which are programmable as two Class B Style Y or one Class A Style Z, silenceable or not silenceable and ANSI cadence or steady. The panel shall also be capable of operating as a 2.5 amp notification expander module.

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.

### Optional Accessories

- **SK-2884 Serial Driver Board**  
Used to connect all serial accessories to the control panel.
- **SK-2866 LED Annunciator (Requires SK-2884)**  
Remote LED annunciator.
- **SK-2104 Digital Dialer (Requires SK-2884)**  
Digital dialer having multiple reporting formats (SIA, SK 3/1, Contact ID, SK 4/2, Radionics BFSK and Sescoa 3/1).
- **SK-2880 I/O Module (Requires SK-2884)**  
Has 34 pre-defined open collector relay outputs that can be used to drive LEDs or relays.



SK-4224 Block Diagram



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**MADE IN AMERICA**

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