



## Addressable Fire Alarm Control Panels

# 6808

## Addressable Fire Alarm Control Panel

The 6808 is an addressable fire alarm control panel (FACP) that is a direct replacement for the 5808 FACP. The 6808 can be configured to achieve a point capacity of 198 points. It has one built-in signaling line circuit (SLC), which can support 99 System Sensor® (SK) sensors and 99 SK modules or 127 Hochiki® (SD) devices per loop.

A common communications and annunciation link allows up to 17 panels to be connected via copper or fiber optic cable. A designated panel is configured as the communicator for all panels in the link for convenient single-point communications. It also has a built-in, dual-line POTS and IP communicator with additional cellular options available.

The 6808 system can be enhanced by adding modules such as the 6860 remote annunciator which also has four programmable function buttons to help automate tasks and reduce time spent at the panel.

SWIFT® wireless compatibility provides options for wireless detection through a Class A mesh network. It is ideal for hard-to-wire locations, buildings where new wiring is not allowed, or to provide an easy install fire system for new construction projects. SWIFT devices can be combined with other hard-wired 6808 compatible devices.

The 6808 also has a form-C trouble relay, two programmable form-C relays, along with powerful features such as drift compensation, pre-trouble maintenance alert, a built-in sensor test to comply with NFPA 72 calibration testing requirements, and calibration trouble alert.



6808

The supports a variety of devices, including the 6860, 5860, and 6855 remote annunciators, 5824 serial parallel printer interface module (for printing system reports), the 5496 NAC expander, 5895XL power module, and SK or SD devices.

## FEATURES & BENEFITS

- Capable of providing up to 198 points to satisfy smaller installation needs
- Connect up to 17 panels on one site with convenient single-point access using the SK-NIC Network Interface Card. Connected panels can have mixed compatible FACP models
- Convenient field-upgradeable firmware
- Built-in dual path POTS and IP communications with optional cellular models available for reliable backup reporting
- 6860 annunciator with a 4 x 40 large display
- Four user-programmable buttons minimize time spent executing complex or routine tasks
- Built-in USB interface for convenient and quick programming
- Programmable date setting for automatic and convenient Daylight Saving Time changes
- JumpStart® auto programming reduces installation time
- 125 software zones and 125 output groups for flexible design options

## **SIGNAL LINE CIRCUIT (SLC)**

The 6808 SLC loop supports multiple device types, maintenance alerts, and a built-in sensor test to comply with NFPA 72 calibration testing requirements.

## **INDICATOR LIGHTS**

- **General Alarm (Red):** Flashes if in alarm; solid when alarm is silenced
- **Supervisory (Yellow):** Flashes if a supervisory condition exists; solid when supervisory is silenced
- **System Troubles (Yellow):** Flashes if a trouble condition exists; solid when trouble is silenced
- **System Silenced (Yellow):** On when an alarm, trouble or supervisory condition has been silenced but not yet cleared
- **System Power (Green):** Flashes for AC failure; solid when power systems are normal

## **USER INTERFACE**

The 6808 built-in 4 x 20 annunciator with 80 character LCD display and large easy-to-use tactile touchpad can be used for system operation, programming and maintenance. It has five LEDs for alarm, supervisory, system trouble, system silenced and system power.

System operations include silencing alarms and troubles, resetting alarms and the display of alarm troubles and memory. The system's non-volatile event history buffer stores 1,000 events for viewing from the built-in or remote annunciator. System operations can be initiated with a mechanical firefighter's key or a valid 4- to 7-digit operator's code.

## **PROGRAMMING**

The 6808 system offers several options to simplify and speed-up programming. JumpStart® auto programming minimizes programming required to start a new system. The built-in keypad, or the 6860, 5860 or 6855 remote annunciators give you on-site access to current system programming. Programming can also be accomplished using the Windows®-based Honeywell Fire Software Suite (HFSS) program.

## **SOFTWARE TOOLS**

**SKST:** Silent Knight Selection Tool provides the installer or design architect with a Windows® software system configuration tool to create a detailed Bill of Material (BOM) and battery calculations.

**HFSS:** Honeywell Fire Software Suite provides communication and panel programming, detector status, event history and additional data. Requires a PC running Microsoft® Windows®.

## **ADDITIONAL INFORMATION**

Twisted-unshielded pair wire is recommended.

The 6808 also has 13 preset notification cadence patterns (including ANSI 3.41).

## **AGENCY LISTINGS AND APPROVALS**

**NPFA 13, NFPA 15, NFPA 16, NFPA 70, NFPA 72:** Central station; remote Signaling; Local Protective Signaling Systems; Auxiliary Protected Premises Unit; Water Deluge releasing service. Suitable for automatic, manual, waterflow, sprinkler supervisory (DACT non-coded) signaling services

- **UL Listed:** S2766
- **CSFM:** 7165-0559:0502
- **FDNY:** COA# 6246
- **FM approved**

## **ORDERING INFORMATION**

6808: Addressable Fire Alarm Control Panel. (Red cabinet).

## **COMPATIBLE ANNUNCIATORS**

**6860:** 4x40 LCD remote fire annunciator (4 lines and up to 160 characters) per system; four programmable buttons  
**5860:** 4x20 LCD remote fire annunciator. 5860 is gray; 5860R is red  
**6855:** 4x20 LCD remote fire annunciator

**5865-3 or 5865-4:** LED annunciators can display up to 30 LEDs (15 red and 15 yellow). The 5865-4 has key switches for silence and reset, and a system trouble LED.

**5880:** LED / IO module has 40 programmable LED outputs and eight supervised dry contact inputs which are useful for custom applications. You can use up to eight 5880 modules on one control panel for maximum flexibility. Its compact size allows mounting inside the annunciator, or in an accessory cabinet.

## **6808 COMPATIBLE DEVICES AND ACCESSORIES**

See the data sheets listed below for a complete listing of the SK, SD or SWIFT devices.

53623: SK Devices Data Sheet

53624: SD Devices Data Sheet

350614, 350616 & 350618: SWIFT wireless devices

For a complete and current listing of compatible devices and accessories, visit [www.silentknight.com](http://www.silentknight.com).

**Important:** You cannot mix SK and SD devices in the same fire alarm system.

## **SK COMPATIBLE ADDRESSABLE DEVICES**

**SK-ACCLIMATE:** Multi criteria photoelectric smoke detector with thermal 135°F fixed temperature

**SK-BEAM:** Reflected beam smoke detector without test feature

**SK-BEAM-T:** Reflected beam smoke detector with test feature

**SK-CONTROL:** Supervised control module

**SK-CONTROL-6:** Six circuit supervised control module

**SK-DUCT:** Photoelectric duct smoke detector with extended air speed range

**SK-FIRE-CO:** Four criteria fire and carbon monoxide detector

**SK-HEAT:** Fixed thermal detector (135°F)

**SK-HEAT-W:** Fixed thermal detector (135°F), white

**SK-HEAT-ROR:** Fixed rate of rise detector (135°F)

**SK-HEAT-ROR-W:** Fixed rate of rise detector (135°F), white

**SK-HEAT-HT:** Fixed high temperature thermal detector (190°F)

**SK-HEAT-HT-W:** Fixed high temperature thermal detector (190°F), white

**SK-ISO:** Fault isolator module

**SK-MINIMON:** Mini monitor module

**SK-MONITOR:** Monitor module

**SK-MONITOR-2:** Dual input monitor module

**SK-MON-10:** 10 input monitor module

**SK-PHOTO:** Photoelectric smoke detector

**SK-PHOTO-W:** Photoelectric smoke detector, white

**SK-PHOTO-T:** Photoelectric smoke detector with thermal (135°F fixed temperature)

**SK-PHOTO-T-W:** Photoelectric smoke detector with thermal (135°F fixed temperature), white

**SK-PHOTOR:** Photoelectric detector with remote test capability

**SK-PHOTO-R-W:** Photoelectric detector with remote test capability, white

**SK-PULL-SA:** Addressable single action pull station

**SK-PULL-DA:** Addressable dual action pull station

**SK-RELAY:** Addressable relay module

**SK-RELAY-6:** Addressable Six relay control module

**SK-RELAYMON-2:** Addressable Dual relay/monitor module

**SK-ZONE:** Addressable zone interface module

**SK-ZONE-6:** Six zone interface module

**B300-6(-IV):** 6" base for SK-W Series

**B210LP:** 6" mounting base

**B501(-BL,-IV,-WHITE):** 4" flangeless base

**B501:** 4" Flangeless mounting base

**B200S(-IV,-WH):** Intelligent sounder base

**B200S:** Intelligent sounder base

**B200S-LF(-IV,-WH):** Low-Frequency intelligent sounder base

**B200S-LF:** Low-frequency intelligent sounder base

**B224RB(-IV,-WH):** Relay base

**B224RB:** Relay base

**B224BI(-IV,-WH):** Isolator base

**B224BI:** Isolator base

## **SD COMPATIBLE ADDRESSABLE DEVICES**

**SD505-6AB:** Addressable 6" base

**SD505-6IB:** Addressable 6" short circuit isolator base

**SD505-6RB:** Addressable 6" relay base

**SD505-6SB:** Addressable 6" sounder base

**SD500-AIM:** Addressable input module (switch input)

**SD500-ANM:** Addressable notification module

**SD500-ARM:** Addressable relay module

**SD505-DTS-K:** Remote test switch and LED indicator for the SD505-DUCTR

**SD505-DUCT:** Addressable Duct Smoke Detector.

**SD505-DUCTR:** Addressable Duct Detector housing with relay base.

**SD505-HEAT:** Absolute temperature heat detector. Trip point range from 135°F–150°F (0°C–37°C).

**SD500-LIM:** Addressable Line isolator module

**SD500-MIM:** Addressable Mini input monitor module (switch input)

**SD505-PHOTO:** Photoelectric smoke detector

**SD500-PS/-PSDA:** Addressable Single or dual action pull station

**SD500-SDM:** Addressable smoke detector module

## **AUDIBLE/VISIBLE DEVICES**

These AV devices are all 2-wire. Color: "R" indicates red; "W" denotes white. For a complete listing of Silent Knight AV devices go to [www.silentknight.com](http://www.silentknight.com).

**CHSRL/CHSWL:** Wall chime/strobe

**CHSRL/CHSCWL:** Ceiling chime/strobe

**CHRL/CHWL:** Wall chime

**HRL/HWL:** Wall horn

**P2RL/P2WL:** Wall horn/strobe

**PC2RL/PC2WL:** Ceiling horn/strobe

**SRL/SWL:** Wall strobe

**SCRL/SCWL:** Ceiling strobe

**SPSRL/SPSCWL:** Ceiling speaker/strobe

**SPSRL/SPSWL:** Wall speaker/strobe

**SPRL/SPWL:** Wall speaker

**SPCRL/SPCWL:** Ceiling speaker

## **SWIFT WIRELESS DEVICES**

*SWIFT is only compatible with System Sensor (SK) devices. It is not compatible with Hochiki (SD) devices.*

**WSK-WGI:** Wireless Gateway

**WSK-PHOTO:** Wireless Photoelectric smoke detector

**WSK-PHOTO-T:** Wireless Multi-criteria photoelectric smoke detector with thermal detection (135°F fixed temperature) and B510W 4" base

**WSK-HEAT:** Wireless Heat, (135°F fixed temperature) and B510W 4" base

**WSK-HEAT-ROR:** Wireless heat, ROR (135°F fixed temperature) and B510W 4" base

**WSK-MONITOR:** Wireless monitor module

**WSK-RELAY:** Wireless relay module

**W-USB:** SWIFT Tools USB transceiver used for communication with SWIFT devices

## **SBUS ACCESSORIES**

**5496:** A 6 amp notification power expander with four power-limited notification appliance circuit outputs.

**5883:** Relay Interface. Provides 10 Form C relays.

**5824:** Serial/Parallel Printer Interface Module for printer connection.

**5895XL:** Power Supply with six Flexput™ circuits, and two Form C relays. Max. 16 per system.

**5815RMK:** Remote mounting kit. Dimensions: 10 3/8"W x 10-3/16"H x 3"D

## **COMMUNICATION OPTIONS**

**CELL-CAB-SK:** Cellular communicator, metal enclosure with lock/key\*

**CELL-MOD:** Cellular communicator, plastic enclosure\*

\*Sole path, powered by panel.

**IPGSM-4G:** Dual path fire alarm communicator, cellular and/or IP (primary or backup, selectable)

**SK-IP-2:** Remote reporting via the Internet. Requires a VisorAlarm® receiver at the central station

## **MISC. ACCESSORIES**

**SK-NIC:** Network Interface Card. Provides a common communications link for the 6808.

**SK-NIC-KIT:** Installation Accessory Kit

**SK-FML:** Fiber-Optic Multi Mode, transmitter and receiver

**SK-FSL:** Fiber-Optic Single Mode

**RBB:** Remote battery box accessory cabinet for batteries that are too large to fit in the FACP cabinet. Dimensions: 16" W x 10" H x 6" D (406mm W x 254mm H x 152mm D).

**SK-SCK:** Seismic Compliance Kit used to securely fasten batteries to the fire panel.

# 6808 Technical Specifications

## PHYSICAL

**Overall Dimensions:** 16.36"W x 26.37"H x 3.91"D

**Shipping Weight:** 32 lbs.

**Color:** Red

## ENVIRONMENTAL

**Operating Temperature:** 32°F to 120°F (0°C to 49°C)

**Humidity:** 0 to 93% relative humidity (non-condensing)

## ELECTRICAL

**6808 Primary AC:** 120 VAC @ 60Hz, 3.3A Total

Accessory Load: 6A @ 27.4VDC power-limited

**Standby Current:** 190mA

**Alarm Current:** 250mA

**Battery Charging Capacity:** 7 to 35AH

**Battery Size:** 7AH to 18AH max. allowed in control panel cabinet. Larger capacity batteries can be housed in RBB accessory cabinet.

## NOTIFICATION APPLIANCE CIRCUITS (NACs)

**Four programmable circuits which can be programmed individually as:**

**NACs:** 3A @ 27.4VDC per circuit, power-limited (with a maximum current of 6A)

**Auxiliary Power Circuits:** 3A @ 27.4VDC per circuit, power-limited

Supports Class B (Style 4) and Class A (Style 6 or 7) configuration for the SLC

**WIRING:** See the product manual for wiring details

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For Technical Support, call 800-446-6444.

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