

6820U ULTRA SERIES

Intelligent Fire Alarm Control Panel with Communicator

The 6820U features an expandable SLC circuit, six Flexput circuits, powerful software features and connectivity for up to 17 panels.

The 6820U is the latest intelligent addressable FACP (Fire Alarm Control Panels) from Silent Knight. The FACP has one built-in SLC (signaling line circuit), which can support 159 SK detectors and 159 SK modules. Additional SLC loops can be added for a maximum of 1110 (SK) points per panel.

The 6820U has eight onboard Flexput® circuits that can be configured as notification outputs or auxiliary power. The 6820 also has a form-C trouble relay, and 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 a calibration trouble alert.

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.



FEATURES AND BENEFITS

- Complies with UL 864 10th Edition and UL 2572 2nd Edition Standards
- Expandable SLC loops to 1110 (SK) point capacity
- Eight Flexput circuits for NAC outputs or auxiliary power
- Selectable strobe synchronization for System Sensor devices
- JumpStart® auto programming reduces installation time
- 999 software zones and 999 output groups for flexible design options
- Allows up to 24 SBUS devices
- Four programmable function keys
- Two programmable relays and one fixed trouble relay
- Convenient field-upgradeable firmware
- Common Communications Link for up to 17 sites
- Network card allows copper network connection with optional multi-mode or singlemode fiber connection
- Real-time clock/calendar with automatic daylight savings control
- History file with 1,000 event capacity
- Available in a red cabinet
- Surface mounting or flush mounting cabinet

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USER INTERFACE

LED INDICATORS

- General Alarm (Red)
- Supervisory (Yellow)
- System Trouble (Yellow)
- System Silenced (Yellow)
- System Power (Green)

KEYPAD

- 12-key numeric pad
- Acknowledge
- Alarm Silence
- System Reset
- Drill
- F1-F4 Programmable Function Keys

PROGRAMMING

The 6820U system offers several options to simplify and expedite programming. JumpStart® auto programming minimizes programming required to start a new system. The built-in keypad, or the remote annunciators give on-site access to current system programming. System programming can also be accomplished using the Windows®-based Honeywell Fire Software Suite (HFSS).

ORDERING INFORMATION

6820U: Addressable fire alarm control panel, red

COMPATIBLE SBUS DEVICES

- 6860: 4x40 LCD remote fire annunciator with four programmable buttons, red
- 5880: LED I/O module with 40 programmable LED outputs and eight supervised dry contact inputs
- 5824: Serial/Parallel printer interface module for printer connection

SK COMPATIBLE ADDRESSABLE DEVICES

- SK-CONTROL: Supervised control module
- SK-FIRE-CO-W: Four criteria fire and carbon monoxide detector, white
- SK-HEAT-HT-W: Fixed high temperature thermal detector (190°F), white
- SK-HEAT-ROR-W: Fixed rate of rise detector, white
- SK-ISO: Fault isolator module
- SK-MINIMON: Mini monitor module
- SK-MONITOR: Monitor module
- SK-PHOTO-T-W: Photoelectric smoke detector with fixed thermal heat (135°F), white
- SK-PTIR-W: Multi criteria photoelectric smoke detector with thermal 135°F fixed temperature, white
- SK-HEAT-W: Fixed temperature thermal detector (135°F), white

- SK-PHOTO-W: Photoelectric smoke detector, white
- SK-PULL-SA: Addressable single action pull station
- SK-PULL-DA: Addressable dual action pull station
- SK-RELAY: Addressable relay module
- SK-Zone: Zone control module

COMPITABLE BASES

- B501-WHITE: 4" Flangeless mounting base
- B200S: Intelligent sounder base
- B200S-LF: Low-frequency intelligent sounder base
- B224RB: Relay base
- B224BI: Isolator base

SYSTEM EXPANDERS

- 6815: SLC Expander for SK devices
- RPS1000: 6A power supply with six Flexput circuits and two Form C relays

MISCELLANEOUS ACCESSORIES

- SK-NIC: Network Interface Card
- SK-FML: Fiber-Optic Multi Mode transmitter and receiver
- SK-FSL: Fiber-Optic Single Mode transmitter and receiver

SOFTWARE SOLUTIONS

HFSS: Honeywell Fire Software Suite provides remote and local panel programming, detector status, event history and additional data. Databases can be uploaded/downloaded via the panel's USB port using a flash drive. Requires a PC running Microsoft® Windows®.

SYSTEM CAPACITY

- **Intelligent Signaling Line Circuits:** 1 (expandable)
- **Addressable device capacity:** 1110 (SK) or 635 (SD)
- **Programmable software zones:** 999
- **Output groups:** 999
- **Output circuits:** 8 (expandable)
- **SBUS devices:** 24 (16 annunciators, 8 LED modules)

SOFTWARE SOLUTIONS

- **AC Power:** 120VAC, 60Hz, 5A or 240 VAC 50/60 Hz 2.8A
- **Standby Current:** 230mA
- **Alarm Current:** 415 mA
- **Flexput Circuits:** Terminal block provides connections for (8Class B or 4 Class A) NACs or auxiliary power. Power-limited, supervised circuitry. Maximum current per circuit: 3 A. Cannot exceed 9A total for all circuits. End-of-line resistor: 4.7k ohm, ½ watt for Class B NACs
- **Communication Loop:** Supervised and power-limited, Class A or Class B, 32VDC, 150mA
- **Two Programmable Relays and One Fixed Trouble Relay:** Contact rating: 2.5 A @ 27.4 VDC (resistive), Form C
- **Battery:** Cabinet holds maximum of two 18 AH batteries
- **Battery Charger Capacity:** 17-55 AH

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6820U ULTRA SERIES TECHNICAL SPECIFICATIONS

PHYSICAL

- **Dimensions:** 16.4" W x 26.4" H x 4.1" D
(41.66cm W x 67.06cm H x 10.41cm D)
- **Weight:** 33lbs. (15 kg.)
- **Color:** Red

TEMPERATURE AND HUMIDITY RANGES

This system meets NFPA requirements for operation at 0 – 49°C (32– 120°F) and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 –27°C/60 – 80°F.

NFPA STANDARDS

The 6820U complies with the following standards and codes:

- NFPA 72
- NFPA 13
- NFPA 15
- NFPA 16
- NFPA 70
- UL 864 10th Edition

AGENCY LISTINGS AND APPROVALS

- **UL Listed:** S2766
- **CSFM:** 7165-0559:0500
- **FDNY COA#** 6249
- **FM Approved**

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