6820UEVS
ULTRA SERIES

Intelligent Fire Alarm Control Panel with Emergency Voice System

The 6820UEVS panels and accessories provide features to meet the requirements for Mass Notification Systems as described in UL 2572 2nd Edition and UL 864 10th Edition.

The 6820UEVS is an intelligent addressable Fire Alarm Control Panel combined with an Emergency Voice System (EVS). When the EVS features are enabled, they are integrated with the fire alarm and voice evacuation functions of the control panel.

The emergency voice system operations include an onboard supervised microphone. All-call and non-active call buttons can quickly select all active or non-active output groups. The system also allows for emergency messages over fire.

The 6820UEVS FACP has one built-in signaling line circuit (SLC), 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 6820UEVS has eight onboard Flexput® circuits that can be configured as notification outputs or auxiliary power. The 6820UEVS also has a form-C trouble relay, and two programmable form-C relays, along with powerful features such as drift compensation, pretrouble 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

- Single enclosure for both fire and emergency voice components
- Ability to select EVS messages as priority over fire
- 15 Recordable one-minute messages that can be mapped to eight EVS buttons
- Capable of producing 520 Hz tones to meet NFPA 72 requirements
- 8 addressable amplifiers
- Expandable SLC loops to 1110 (SK)
- Eight Flexput circuits for NAC outputs or auxiliary power
- Selectable strobe synchronization for System Sensor®
- Built-in USB interface for quick and easy programming
- JumpStart® auto programming reduces installation time
- 999 software zones & 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
- Network support for up to 17 sites
- Network card allows copper network connection with a multi-mode or singlemode fiber connection
- Real-time clock/calendar with automatic daylight savings control
- History file with 1,000 event capacity

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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 6820UEVS 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

6820UEVS: Addressable fire alarm control panel with emergency voice system, red

COMPATIBLE EVS EQUIPMENT

- ECS-50W: 50 Watt amplifier
- ECS-DUAL50W: 50/100 Watt amplifier
- ECS-CE4: Provides 4 additional audio circuits

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 carbonmonoxide detector, white
- SK-HEAT-W: Fixed thermal detector (135°F), 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
- SK-PULL-SA: Addressable single action pull station
- SK-PULL-DA: Addressable dual action pull station
- SK-RELAY: Addressable relay module
- SK-ZONE: Addressable zone interface module
- SK-PHOTO-W: Photoelectric smoke detector with, white

COMPATIBLE BASE

- 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 SK devices
- RPS-1000: 6A power supply with 6 Flexput circuits & 2 Form C relays

MISCELLANEOUS ACCESSORIES

- SK-NIC: Network Interface Card. Provides a common communications link for the IFP-300
- SK-FML: Fiber-Optic Multi Mode, transmitter and receiver
- SK-FSL: Fiber-Optic Single Mode

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®.

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6820UEVS ULTRA SERIES TECHNICAL SPECIFICATIONS

SYSTEM CAPACITY

Intelligent Signaling Line Circuits: 1 (expandable)
Addressable device capacity: 1110 (SK) or 635 (SD)
Programmable software zones: 999
Output circuits: 8 (expandable)
SBUS devices: 24 (16 annunciators, 8 LED modules)
Addressable amplifiers (total watts): 8 (1000)

ELECTRICAL

AC Power: 120VAC, 60Hz, 5A or 240 VAC 50/60Hz, 2.8 A
Standby Current: 230 mA
Alarm Current: 415 mA
Flexput Circuits: Terminal block provides connections for (8 Class B or four 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

PHYSICAL

Dimensions: 21.6" W x 28.1" H x 5.1" D
(54.9cm W x 71.4cm H x 13.0cm D)
Weight: 53lbs. (24 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.

STANDARDS AND CODES

The 6820U complies with the following standards and codes:
NFPA 72
NFPA 13
NFPA 15
NFPA 16
NFPA 70
UL 864 10th Edition
UL2572 2nd Edition

AGENCY LISTINGS AND APPROVALS

UL Listed: S2766
CSFM: 7165-0559:0500
FDNY: COA# 6249
FM: Approved
Seismic: (CA) VMA-45894-05C:

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

Country of origin: USA

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HN-SK-20UEVS-0426

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