

NEW FIRE ALARM CONTROL PANEL



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.

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.

CHSRL/CHSWL: Wall chime/strobe

CHSCRL/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

SPSCRL/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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**SILENT
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by Honeywell

Intelligent Fire Alarm Control Panel

Intelligent Fire Alarm Control Panel

IFP-100

IFP-100 is an intelligent analog/addressable fire control panel. The basic IFP-100 system has a single SLC loop and four notification appliance circuits that can be programmed for notification outputs or auxiliary power. IFP-100 also has a built-in dual line digital fire communicator, Form C trouble relay, and two programmable Form C relays. The firmware has powerful features, such as detector sensitivity, day/night thresholds, drift compensation and pre-trouble maintenance alert.

IFP-100 supports a variety of other devices that can be added to the system such as RA-100 remote annunciator, 5824 serial/parallel printer interface module (for printing system reports), and 5496 intelligent power module, and SD or IDP Protocol devices.

Features

- Built-in support for up to 127 SD devices or 99 IDP detectors and 99 IDP modules
- Uses standard wire—no shielded or twisted pair required
- Built-in digital communicator for remote reporting of system activity and system programming using either SIA or CID formats.
- Central station reporting by point or by zone
- Jumpstart® auto-programming
- Supports Class B (Style 4) and Class A (Style 6 or Style 7) configuration for SLC
- Distributed, intelligent power
- Built-in synchronization for AMSECO, Gentex®, Faraday, System Sensor®, and Wheelock® appliances
- Sensor sensitivity settings and day/night sensitivity setting
- Automatic drift compensation
- Notification circuits configurable as 2 Class A (Style Z), 4 Class B (Style Y), or auxiliary power for resettable, constant, or door holder power
- Built-in annunciator with a backlit 80-character LCD display
- RS-485 bus provides communication to system accessories
- Built-in Form C trouble relay rated at 2.5 amps at 27.4 VDC
- Two built-in Form C programmable relays rated at 2.5 amps at 27.4 VDC
- SLC device locator can be used to locate a single or multiple devices on a SLC loop
- System automatically performs detector sensitivity test
- 13 preset notification cadence patterns (including ANSI 3.41) and four user programmable patterns
- Built-in RS-232 and USB interface for programming
- Upload or download programming, event history, or detector status onsite or from a remote location using a PC and 5650/5651 Silent Knight Software Suite (SKSS)
- Improvements in SKSS deliver five times faster upload/downloads
- Non volatile event history stores up to 1000 events
- 125 Software zones and 125 output groups
- Programmable date setting for Daylight Saving Time

Agency Listings



MEA

429-92-E Vol. XIV



IFP-100

- 6 amp power supply and maximum charging capacity of 35 amp hours (An additional cabinet enclosure is required for batteries in excess of 18 amp hours)
- Integrated dead front panel protects operator from exposure to electrical components
- The FACP enclosure features a Plexiglass® viewing window to protect annunciator
- Programmable to automatically display oldest event first or display tally of system events
- Acknowledge function allows operator to keep track of event status

Installation

The IFP-100 can be surface or flush mounted.

Compatibility

The IFP-100 SLC supports multiple device types of the *same* protocol:

- SD
- IDP

You cannot mix SD and IDP devices on a FACP. See SD Devices data sheet (PN 350360) and IDP Device Protocol Devices data sheet (PN 350361).

P/N 350388 Rev K

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Specifications

Physical

Flush Mount Dimensions: 14.5"W x 24.75"H x 3.5"D
(36.8 W x 62.9 H x 8.73 D cm)

Overall Dimensions: 16"W x 26.4"H x 4.65"D
(40.6 W x 67 H x 11.8 D cm)

Weight: 28 lbs. (12.8 kg)

Color: Red

Environmental

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

Humidity: 10% – 93% non-condensing

Electrical

Primary AC: 120 VRMS @ 50/60 Hz, 2.5A

Total Accessory Load: 6A @ 27.4 VDC power-limited

Standby Current: 170 mA

Alarm Current: 325 mA

Battery Charging Capacity: 7 to 35 AH

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

Notification Appliance Circuits

Four circuits that can be programmed individually as:
Notification Circuits: 3A per circuit @ 27.4 VDC, power-limited
Auxiliary Power Circuits: 3A per circuit @ 27.4 VDC, power-limited

Indicator Lights

Alarm (Red): Flashes when in alarm; solid when alarm silenced

Supervisory (Yellow): Flashes when a supervisory condition exists; solid when supervisory silenced

Trouble (Yellow): Flashes when a trouble condition exists; solid when trouble silenced

Silenced (Yellow): Solid when an alarm, trouble or supervisory condition has been silenced but not yet cleared

Power (Green): Flashes for AC failure; solid when power systems are normal

Telephone

Requirements: FCC Part 15 & Part 68 approved

Jack: RJ31X (two required)

Approvals

NFPA 13, NFPA 15, NFPA 16, NFPA 70, & NFPA 72: Central Station; Remote Signalling; Local Protective Signalling Systems; Auxiliary Protected Premises Unit; & Water Deluge Releasing Service. Suitable for automatic, manual, waterflow, sprinkler supervisory (DACT non-coded) signalling services.

Other Approvals: UL Listed; CSFM 7165-0559:0142; MEA 429-92-E Vol. XIV; OSHPD (CA) OSP-0065-10

Approved Releasing Solenoids

Manufacturer	Part Number	Rating
Asco	T8210A107	24 VDC, 3 A
Asco	8210G207	24 VDC, 3 A

Ordering Information

IFP-100 Intelligent Fire Alarm Control Panel.

SBUS Accessories

RA-100	Remote Annunciator. Same operation and similar appearance to FACP annunciator.
RA-1000R	Remote Annunciator. Four line LCD annunciator with 20 characters per line. Red.
RA-1000	Remote Annunciator. Four line LCD annunciator with 20 characters per line. Gray.
RPS-1000	Intelligent Power Module.
5496	Intelligent Power Module.
5824	Serial/Parallel Printer Interface Module.
5880	LED I/O Module.
5865-3 & 5865-4	LED Fire Annunciators.
5883	Relay Interface Board.

SD and IDP Devices

See the specification sheets listed below for a complete listing of the SD and IDP devices.

350360	SD Devices Specification Sheet.
350361	IDP Devices Specification Sheet.

Miscellaneous Accessories

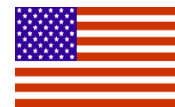
5650/5651	Silent Knight Software Suite. Provides programming, upload/download, and event reporting.
5670	Silent Knight Software Suite. Provides facility monitoring.
RBB	Remote Battery Box Accessory Cabinet. Use if backup batteries are too large to fit into FACP cabinet. Dimensions: 16" W x 10" H x 6" D (406 mm W x 254 mm H x 152 mm D)
SK-SCK	Seismic Compliance Kit



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Made in the U.S.A.

NEW WIRELESS COMMUNICATOR



7707 Fire Subscribers

IntelliNet 2.0

Feature Highlights

- Offers flexible power and configuration options.
- Engineered for backward compatibility with legacy systems.
- Enables future ready capabilities.
- Provides instant Subscriber status through front panel with Power and Trouble LEDs, a backlit LCD display, and Menu/Silence button.
- Includes dual communication/multiple communication technology (reporting over RF and IP).
- Improves functionality with an adaptive Graphic User Interface (GUI) for programming via smartphones, tablets, and PCs.



Key Benefits

- Built upon the solid foundation of AES-IntelliNet® patented mesh radio technology for use in private licensed wireless networks.
- Protects Subscriber units against unauthorized access and rogue activity with a password protected Dealer Code.
- Makes programming and streamlined troubleshooting easy with user friendly interface.
- Adds integrated supervision of 7794A AES-IntelliPro full data module.
- Provides versatile power options.

Models

IntelliNet® 2.0 Fire Subscribers	
7707P-88-M	IntelliNet 2.0 Fire Subscriber, 8-Zone with Multiple Communication Technologies (MCT), Red Enclosure
7707P-88-ULP-M	IntelliNet 2.0 Fire Subscriber, 8-Zone with 7794A AES-IntelliPro and Integrated Onboard Local Annunciator, plus Multiple Communication Technologies (MCT), Red Enclosure
7707P-44-M	IntelliNet 2.0 Fire Subscriber, 4x4 Zone (4 Reversing Polarity, 4 Supervised) with Multiple Communication Technologies (MCT), Red Enclosure
7707P-44-ULP-M	IntelliNet 2.0 Fire Subscriber, 4x4 Zone (4 Reversing Polarity, 4 Supervised) with 7794A AES-IntelliPro and Integrated Onboard Local Annunciator, plus Multiple Communication Technologies MCT, Red Enclosure

Technical Specifications

DIMENSIONS

13"H x 8.5"W x 4.5"D
(33cm H x 21.5cm W x 11.4cm D)

WEIGHT

- 15.85 lbs (7.2 kilograms) with 12Ah battery
- 7 lbs (3.2 kilograms) excluding battery

RADIO FREQUENCY

Standard Frequency Range:
450-470 MHz
Contact AES for other UHF and VHF frequencies

ANTENNA

2.5 dB Tamper resistant antenna included

POWER INPUT

- 16.5V AC Class 2 Transformer
Transformer not included
- 24V DC External Regulated Power Supply
- 24V DC Regulated Power Supply from FACP AUX Power

BACKUP BATTERY

12 Ah with 7794A; 6 Ah without,
UL recognized lead acid gel cell
battery
Size based on Subscriber configuration

CURRENT CONSUMPTION

Backup Battery Power

- Standby = .190A
- Transmit = .752A
- Optional 7794A = .165A,
Standby and Alarm

ALARM SIGNAL INPUTS/ ZONES

- 8 Individually programmable E.O.L. type zone inputs
- 4x4 Option with 4 reverse polarity input and 4 individually programmable E.O.L. type zone inputs
- Optional 7794A AES-IntelliPro for full data via Contact ID, Pulse, Modem IIe, and Modem IIIa2

UL LISTINGS

- UL 864 Standard for Control Units and Accessories for Fire Alarm Systems, Edition 10
- ULC S559-04 Equipment for Fire Signal Receiving Centers and Systems, Edition 1

TROUBLE OUTPUT—ACK DELAY/ANTENNA CUT

Form C relay, fail secure,
rated 24V DC 1A resistive,
unsupervised

RESET BUTTON

Located on main circuit board

OPERATING TEMPERATURE

32 to 120°F (0 to 49°C)

STORAGE TEMPERATURE

14 to 140°F (-10 to 60°C)

RELATIVE HUMIDITY

0 to 93%, non-condensing

PORTS

- (1) Ethernet
- (2) USBs

ANNUNCIATOR

Integrated Local Annunciator

PROGRAMMING INTERFACE

Web browser capable device
accessible via smartphone, tablet,
laptop, or PC

POWER OUTPUT

2 or 5 Watts
Contact AES for other options

ENCLOSURE MATERIAL

Metal with paint finish

FINISH COLOR

Red

VISUAL INDICATORS

- Front panel LCD (2 x 20 alphanumeric character backlit display)
- Power and Trouble LEDs (ALM, Trouble, Tx, Rx, WA)
- Menu/ Silence button



aes-corp.com

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BATTERY CALCULATIONS

- 1) Select the AES model from the AES Model field.
- 2) Select if Intellipro is installed
- 3) Select if Ethernet Cable is installed during normal operation.
(Only applies to 2.0 subscribers)
- 4) Select if 7762 is installed (Only applies to 7788F)
- 5) Enter the # of hours of backup time required. AES products are UL listed for 24 hours operation on battery backup.
- 6) The calculator will return the recommended minimum battery capacity and max primary input DC and AC current

BACKUP BATTERY CALCULATIONS

AES Model	7794A Ipro Installed	Ethernet Cable Installed		# Hours Backup Time
7177	Yes	Yes	No	24

Standby Current (Amps)		Intellipro Current (Amps)		Ethernet Current (Amps)		7762 Current (Amps)		Total Standby Current (Amps)
0.175	+	0.165	+	0.015	+	0.000	=	0.355

# Hours Backup Time		Standby Current (Amps)		Required Standby Capacity (Amp-Hours)
24	x	0.355	=	8.52

Transmit/Alarm Current (Amps)		Required Alarm Time (Hours)		Required Alarm Capacity (Amp-Hours)
0.786	x	0.25	=	0.20

Required Standby Capacity (Amp-Hours)		Required Alarm Capacity (Amp-Hours)		Total Required Backup Capacity (Amp-Hours)
8.52	+	0.20	=	8.72

Total Required Backup Capacity (Amp-Hours)		*Recommended Safety Factor		Recommended Minimum Battery Capacity (Amp-Hours) ***
8.72	x	125%	=	10.9

*** The battery requirements presented here are only AES recommendations.