

Please fax this information to the Administrative Sales Assistant at the So. Portland Office at (207)-879-0540.

Building Owner Information Form

Job Name:	Project #:	
Electrical Contractor:	AND THE PARTY OF T	
NFPA requires	this inf	ormation
		122
for proper of	locumei	ntation
*The contractor MUST prov	ride all of the in	nformation with an
asterisk below before Al	NY eauipment o	can be released.
If building owner contact is unknown p		
Electrical Contractor Contact Name:		
Estimated Date Equip. Needed:	*Estimated Finals	Date:
*Building Owner:		
*Job Site Address:		
*A:L	1	Zip:
*City:	State:	Zip:
*Contact Name:	Check h	ere if GC
*Phone #:	Fax #:	



Thank you for your cooperation.

Please advise the building owners that if this system is equipped with a digital communicator, then they MUST also make monitoring arrangements prior to a certificate of occupancy. Norris Inc. will attempt to contact the building owners



STOP!

THIS COPY IS FOR YOUR ELECTRICIAN ON THE JOB-SITE

PLEASE BE SURE THIS COPY IS FORWARDED

- 1) A riser diagram is enclosed. DO NOT USE THE ENGINEER'S RISER SHOWN ON THE PLANS. If there is any information that you question, call us immediately.
- 2) YOU MUST CALL AT LEAST FIVE DAYS IN ADVANCE TO SCHEDULE FINAL CONNECTION ASSISTANCE.
- 3) All of your wires must be labeled and clear of any grounds, shorts or opens and must maintain polarity throughout. Meter out all circuits before calling for final connection assistance. If applicable verify End of Line resistors are in place.
- 4) If using shielded cable, the drain wires must be connected and fully insulated (wrapped with tape) so that neither the shield or the drain wire touches the backbox.
- 5) Unless special arrangements are made, we will make one final job-site visit. If a special visit is required for an elevator inspection or partial occupancy, then additional charges may apply if special arrangements were not made ahead. Call your customer service representative.
- 6) If you have any defective or left-over parts DO NOT WRITE ON THEM OR THE BOXES. Save the original box, all mounting hardware and instructions. Returns that do not conform to this practice will not be accepted for credit.
- 7) If the system is being monitored through a digital communicator, then please turn to page 2.



PO Box 2551
2257 West Broadway
South Portland, MF 04100

1.800.370.3473 fax 207.879.0540

www.norrisinc.com

IMPORTANT INFORMATION FOR THE BUILDING OWNERS SPECIAL NOTE REGARDING ALARM MONITORING SERVICES

Included within your alarm system package is a digital communicator, which sends a coded message to a private 24-hour central station if your alarm system is activated. This is a code requirement for most fire alarm systems. As a service to our customer, we offer central station monitoring services from our local UL Listed central station at extremely competitive rates.

If the central station monitoring contract is purchased through Norris Inc. prior to our scheduled start-up; we will connect, program, and test the communicator at no additional charge.

Should the building owners decide to obtain monitoring services from another company, then the cost for programming and testing the communicator will be the sole responsibility of the firm they have contracted with. Furthermore, if programming changes are made to the system by persons other than Norris Inc. technicians, then the company performing the changes shall be solely liable for any personal injury or loss of life or damage to or loss of property arising out of the use of or inability to use the system and it shall result in a waiver of any system warranties.

We appreciate that you understand the delicate nature of this life safety and/or security system and realize that serious problems may arise when modifications to the system are made including very simple programming changes.

Call Norris Inc. at 1-800-370-FIRE (3473) to make arrangements for central station monitoring services.

1.800.370.3473



SUBMITTAL **PACKAGE**

Project: 148 State Street

NORRISING

System: Fire Alarm System

Submitted Norris Inc.

By: 2257 West Broadway

> South Portland, Maine 04106 Telephone: (800) 370-3473

Date: **September 10, 2013**



Company Profile

"We are extremely proud to represent the highest quality manufacturers integrating life safety, alarm and communication systems throughout northern New England."

-- Bradford Norris, President --

Mission Statement

Provide quality engineered systems, exceptional service.

Goal

Learn...Continually Improve...Exceed Expectations

Founded in 1979 Norris Inc. has grown to become Northern New England's leading integrated system contracting and supply company. Norris Inc. is an innovated proactive organization with extensive experience in integration interdisciplinary building management systems. Our local and national affiliations assure that your project will be done properly regardless of size representing leading manufacturers our comprehensive products provide outstanding quality reliability and performance... surpassing customer application requirements and exceeding the stringent requirements of Underwriters Laboratories, National Fire Protection Association and other codes. We maintain an exceptional level of quality and provide the highest levels of customer service. Our knowledgeable technical support will insure the great service you deserve. Whether your needs involve industrial, commercial, institutional, or educational applications, you can trust that Norris Inc. has the complete resources it takes to provide the right solution right away.



OUR CONTINUOUS COMMITMENT TO OUR ENVIRONMENT

At Norris, Inc. we are proudly committed to continuous environmental improvement for a sustainable future and to develop strong partnerships within our community.

Our mission while running our operations is to do everything within our power to improve the environmental quality of our world and to work together to create a clean and safe place to live in and work in for future generations.

We will incorporate and promote green practices within our operations with policies to support it, a system of rewarding those that fully embrace it and then will regularly review our practices for continuous improvement.

We will establish policies, make investments in technologies and set the example in our own operations to include our ongoing commitment to go paperless and making it a requirement to Reuse, Reduce & Recycle, to turn off unneeded lights, to not allow our vehicles to idle, to encourage carpooling and to utilize practical energy efficient transportation.

We will always be 100% compliant with all applicable environmental laws and regulations and will report any violations.

We will remain committed to working locally and whenever possible to sell and use locally manufactured products.

We will insist that every purchase we make will include a review of its environmental impact with a very high priority to selecting the greenest products and services available.

We will remain committed to selling low energy products. This includes promoting wireless technologies, using existing wire infrastructures in our installations, promoting solar powered devices, using our Remote Services in lieu of on-site service calls and performing calculations to minimize power supply and battery needs.

We will educate our employees and customers to illustrate that green practices and purchases are almost always less costly in the long run.

We will support and give priority to organizations that show the strongest commitment to the environment.

We will actively encourage and promote the same responsible green practices that we utilize in the work place to our employees for use in their everyday personal lives.



PO Box 2551 2257 West Broadway South Portland, ME 04106

1.800.370.3473 fax 207.879.0540

www.norrisinc.com

LIMITED WARRANTY

Norris, Inc. warrants that the products of its manufacturers shall be free from defects in materials or workmanship as warranted by the manufacturer which is typically for a one (1) year period from the completed installation date, but not always. The completed installation date will be the date when the end-user was able to begin using or started using the product(s) or the system, whether partially or in its entirety. For projects that have a specification or bid instructions to follow which contains specific warranty requirements, Norris Inc. will always honor the warranty terms exactly as specified in the project's specifications or bid documents, which may be more or less in coverage and duration than the manufacturer's warranty. In performing hundreds of projects per year with thousands of different products it is impossible for Norris, Inc. to track the terms and details of specified or individual product warranties. Therefore Norris, Inc. will request that the owner's representative provide these special warranty details when the warranty work is requested; otherwise a standard one year warranty on the equipment will be honored. The manufacturer's warranty is for equipment only and does not include any labor and/or shipping costs. All warranties provided by Norris, Inc. are limited with the same limitations included with the manufacturer's warranty which is included in the manuals of the products being provided.

The warranty will apply only if such goods have been properly installed, are subject to normal proper use and have not been modified in any manner whatsoever. Upon return of the defective product, Norris, Inc. will, at its sole discretion, either repair or replace, at no cost, such goods determined to have a defect in materials or workmanship. In cases of a warranty repair, Norris, Inc. will use its sole discretion to determine if a suitable replacement part can be provided on loan while the repairs are being performed.

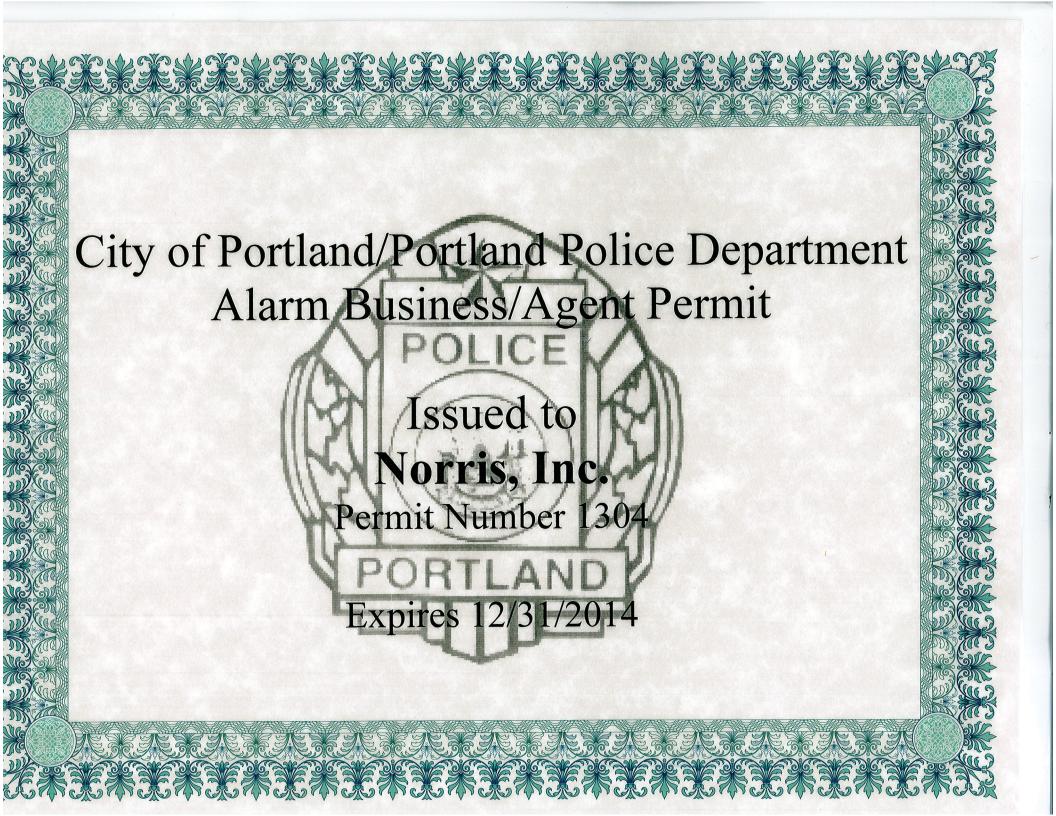
All warranty work is performed during regular business hours. If emergency warranty work is required, the customer will pay the difference between the emergency service bill and our normal hourly charges.

Norris, Inc.'s limited warranty does not apply to those products that are damaged due to misuse, abuse, negligence, exposure to adverse environmental conditions, acts of God or have been modified in any manner whatsoever.

Norris, Inc.'s Standard terms and conditions are provided with our invoices. Those Terms and Conditions shall be provided upon request.

NORRIS, INC. SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM LOSS OF LIFE &/OR PROPERTY OR OTHER DAMAGE OR LOSSES OWING TO THE FAILURE OF NORRIS INC. PRODUCTS BEYOND THE COST OF REPAIR OR REPLACEMENT OF ANY DEFECTIVE PRODUCTS.

NORRIS, INC. MAKES NO WARRANTY OF FITNESS OR MERCHANTABILITY AND NO OTHER WARRANTY, ORAL OR WRITTEN, EXPRESS OR IMPLIED AS ALLOWED TO THE FULLEST EXTENT OF THE LAW.



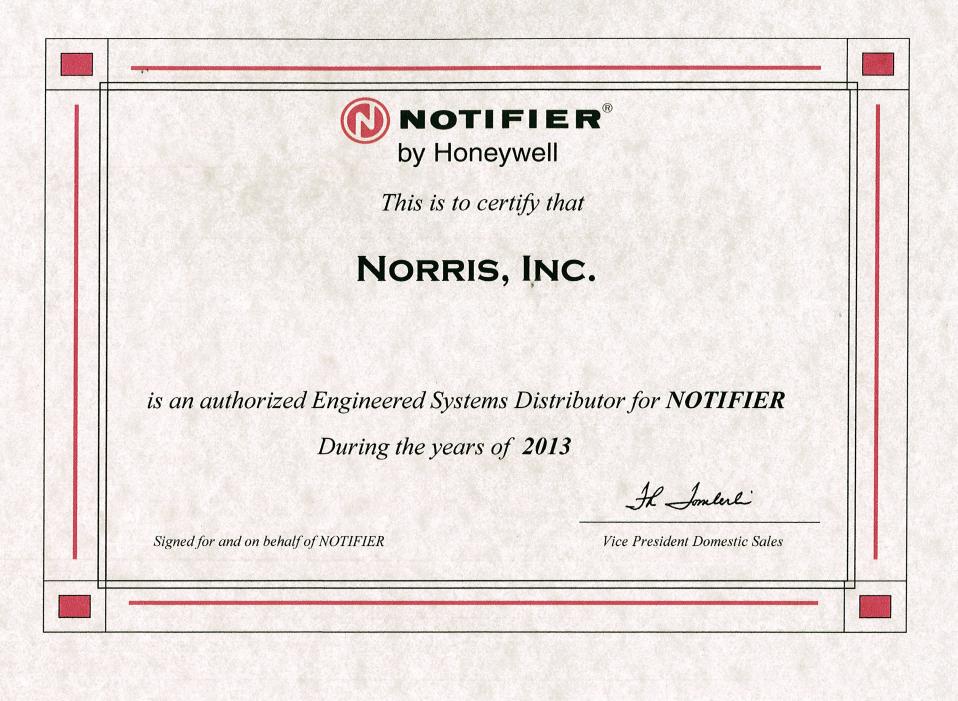


NFPA recognizes

NORRIS INC

as a member in good standing, entitled to all rights and privileges of membership.

January 22, 2003 Date of Issue



Norris Inc

2257 West Broadway
South Portland, ME 04106
1-800-370-3473

DIRIGO MANAGEMENT CO.

ATTN: ACCOUNTS PAYABLE 1 CITY CENTER 4TH FLOOR PORTLAND, ME 04101

DIRIGO

207-871-1080

Fax:207-871-7189

311019SP

Equipment List:

Page: 1

148 State St. Fire Alarm

Description

NOTIFIER-NFW-50, Addressable Fire Alarm Control Panel, Black

ADI-IM-12120, 12V 12AH Battery

ADI-R5804R2, SILVER SATIN 2' PLUG - PLUG

ADI-R5RJ31X, UL 8P8C RJ31X JACK

NOTIFIER-NOT-BG12LX, Addressable Pull Station

NOTIFIER-SB-I/O, Surface Mount Backbox, Pull Station

NOTIFIER-NP-100, Intelligent Addressable Photo detector, with base.

NOTIFIER-P2R, Horn Strobe, Red, Wall, 2 wire, 12/24V, multi-candela

NOTIFIER-SR, Strobe, Red, Wall, 2 wire, 12/24V, multi-candela

NOTIFIER-BBS-2, Surface Mount BB Skirt, w/mnt, R

Space Age-SSU00685, Fire Alarm Records Storage Cabinet, Norris Logo

SPAAGEELE-IE0091, Notifier Lock

NOTIFIER-SRK-P, Red Outdoor Strobe

NOTIFIER-LENS-R, Wall Strb Lens Attachment, Red

SPECIAL-KNOXR-SURFACE, Surface Mount Knox Box (4100 Series)

SPECIAL-KNOXR-LIFTCOVER, Lift Cover for Knox Box

SPECIAL-KNOXR-BLACK, Black Knox Box Color



$oldsymbol{igsel}$ FireWarden-50(E)

Intelligent Addressable FACP with Built-In Communicator



Addressable Fire Alarm Control Panels

General

The NOTIFIER FireWarden-50 (NFW-50) is a Fire Alarm Control Panel (FACP) and Digital Alarm Communicator/Transmitter (DACT) combined into one circuit board. This compact, intelligent addressable control panel supports up to 50 addressable devices in any combination of detectors or modules. With an extensive list of powerful features, the FireWarden-50 programs just like FireWarden-100 products, yet fits into applications previously served only by conventional panels.

The FireWarden-50's integral DACT transmits system status (alarms, troubles, AC loss, etc.) to a Central Station via the public switched telephone network. It also allows remote and local programming of the control panel using the PS-Tools Upload/Download utility. In addition, the control panel may be programmed or interrogated off-site via the public switched telephone network. Any personal computer with Windows[™] 95 or greater, and compatible modem with a speed of 14.4 kbps or faster and Upload/Download software, may serve as a Service Terminal. This allows download of the entire program or upload of the entire program, history file, walk-test data, current status and system voltages.

The power supply and all electronics are contained on a single circuit board supported on a new quick install chassis and housed in a metal cabinet. Available accessories include local and remote upload/download software, remote annunciators, and reverse polarity/city box transmitter. (4XTM)

The FireWatch Series internet monitoring modules IPDACT-2 and IPDACT-2UD permit monitoring of alarm signals over the Internet, saving the monthly cost of two telephone lines. Although not required, the secondary telephone line may be retained providing backup communication over the public switched telephone line.

NOTE: Unless otherwise specified, the term FireWarden-50 is used in this data sheet to refer to both the FireWarden-50 and the FireWarden-50E FACPs. For FireWarden-50C, refer to DN-60446.

Features

- · Listed to UL Standard 864, 9th edition.
- Auto-program (learn mode) reduces installation time. Reports two devices set to the same address.
- On-board DACT.
- Two independently programmable Style Z (Class A) or Style Y (Class B) NAC circuits.
- Selectable strobe synchronization for System Sensor, Wheelock, and Gentex devices.
- Remote Acknowledge, Silence, Reset and Drill via addressable monitor modules.
- Two programmable relays and one fixed trouble relay.
- Built-in Programmer.
- Telephone Line Active LEDs.
- EIA-232 PC interface.
- Integral 80-character LCD display with backlighting.
- Real-time clock/calendar with automatic daylight savings control.
- History file with 500 event capacity.
- Automatic detector sensitivity testing (NFPA 72 compliant).
- Automatic device type-code verification.



- Point trouble identification.
- Waterflow selection per module point.
- Alarm verification selection per detector point.
- Maintenance alert warns when smoke detector dust accumulation is excessive.
- One-person audible or silent walk test with walk-test log and printout.
- System alarm verification selection per detector point.
- PAS (Positive Alarm Sequence) and Pre-signal per point (NFPA 72 compliant).
- Up to eight ANN-BUS annunciators
- Remote Acknowledge, Alarm Silence, Reset and Drill via addressable modules or remote annunciator.
- Upload/Download (local or remote) of program and data via integral DACT.

SLC COMMUNICATION LOOP

- Single addressable SLC loop which meets NFPA Style 4, 6 and 7 requirements.
- 50 addressable device capacity (any combination of addressable detectors and modules).
- Compatible with NOTIFIER FireWarden addressable devices (refer to the FireWarden SLC Wiring Manual).

NOTIFICATION APPLIANCE CIRCUITS (NACS)

- Two independently programmable output circuits. Circuits can be configured for the following outputs:
 - Style Y (Class B)
 - Style Z (Class A)
 - Door Holder Service (cannot be used for notification appliances)
 - Aux Power Source (cannot be used for notification appliances)
- Silence Inhibit and Autosilence timer options.
- Continuous, March Time, Temporal or California code for main circuit board NACs with two-stage capability.
- Selectable strobe synchronization per NAC.
- 2.5 A total power for NACs.

NOTE: Maximum or total 24VDC system power shared between all NAC circuits and the ANN-BUS is 2.7 A.

NFW-50 Fire Alarm Control Panel L000 N-ANN-80 SLC1 N-ANN-S/PG Printer Gateway NP-100 Photo Detector N-ANN-IO Graphic LED Module NI-100 Ionization Detector N-ANN-LED N-ANN-RLY Relay Module NH-100 Series Heat Detector P2R NDM-100 Strobe **Dual Monitor Module** P2R NP-100T, NP-A100 Strobe Photo/Thermal **Power Supply** FCPS-24S6 FCPS-24S8 NMM-100 P2R Monitor Module Strobe NZM-100-6, NMM-100-10 Multiple-Circuit NZM-100 Interface Module 2-Wire Detector Monitor Module DNR **Duct Detector** NFW-50 ADDRESSABLE FIRE ALARM **CONTROL PANEL** NOT-BG12LX

PROGRAMMING AND SOFTWARE

- · Autoprogram (learn mode) reduces installation time.
- Custom English labels (per point) may be manually entered or selected from an internal library file.
- Two programmable Form-C relay outputs.
- 20 software zones.
- Continuous fire protection during online programming at the front panel.
- Program Check automatically catches common errors not linked to any zone or input point.
- OFFLINE PROGRAMMING: Create the entire program in your office using PS-Tools, Windows®-based software package, and upload/download system programming locally. PS-Tools is available on www.magni-fire.com.

User interface

LED INDICATORS

- AC Power (green)
- Fire Alarm (red)
- Supervisory (yellow)
- Trouble (yellow)
- Alarm Silenced signals (yellow)

KEYPAD

- 16 key alpha-numeric pad
- · Acknowledge/Step
- Alarm Silenced
- Drill (Manual Evacuate)
- Reset (lamp test)

Product Line Information

NFW-50: Combination DACT/Fire Alarm Control Panel with one SLC loop. Includes main circuit board with display, chassis with transformer, backbox with door, plastic bag containing screws, cables, key, etc., manual. (For NFW-50C, refer to DN-60446.)

NFW-50E: Same as NFW-50, but operates at 240 VAC.

NFW-50R: Same as NFW-50, with red backbox and door.

DP-51050B: Optional dress panel for NFW-50 (black).

DP-51050: Optional dress panel for the NFW-50R (red).

TR-CE-B: Optional trim ring for semi-flush mounting. (Black. For red, order **TR-CE**.)

BB-XP: Optional cabinet for one or two modules.

BB-25: Optional cabinet for up to six modules mounted on CHS-6 chassis.

BB-26: Battery backbox, holds up to two 25 AH batteries and CHG-75.

NFS-LBB: Battery box, houses two 55 AH batteries

CHS-6: Chassis, mounts up to six multi-modules in a BB-25 cabinet.

CHG-75: Battery charger for lead-acid batteries with a rating of 25 to 75 AH.

CHG-120: Remote battery charging system for lead-acid batteries with a rating of 55 to 120 AH. Requires additional NFS-LBB for mounting.

NOTE: CHG-120 or CHG-75 required for batteries larger than 18AH

BAT Series: Batteries, see data sheet DN-6933.

Addressable

Manual Pull Station

PRT/PK-CABLE: Cable printer/personal computer interface cable.

PRN-6: UL listed compatible event printer. Uses tractor-fed paper.

IPDACT, IPDACT-2/2UD Internet Monitoring Module: Mounts in bottom of enclosure with optional mounting kit (PN IPBRKT). Connects to primary and secondary DACT telephone output ports for internet communications over customer provided ethernet internet connection. Requires compatible Teldat Visoralarm Central Station Receiver. Can use DHCP or static IP. (See data sheet dn-60408 for more information.)

IPBRKT: Mounting kit for IPDACT-2/2UD in common enclosure.

IPSPLT: Y-adaptor option allows connection of both panel dialer outputs to one IPDACT-2/2UD cable input.

AC-TRMBLK: AC Terminal Block mounts to a metal bracket, in turn, mounts to the FACP chassis. Use AC-TRMBLK when wire nuts are not allowed for AC connections to the transformer.

OPTIONAL MODULES

4XTM Reverse Polarity Transmitter Module: Provides a supervised output for local energy municipal box transmitter, alarm and trouble. Includes a disable switch and disable trouble LED.

ANN-SEC: Optional secondary ANN-BUS interface module. *Note: Used only with firmware 3.0 or higher.*

COMPATIBLE ANNUNCIATORS

N-ANN-80(-W): Remote LCD annunciator mimics the information displayed on the FACP LCD display. Recommended wire type is un-shielded. (Basic model is black; order -W for white; see DN-7114.)

N-ANN-I/O: LED Driver Module provides connections to a user supplied graphic annunciator. (See DN-7105.)

N-ANN-LED: Annunciator Module provides three LEDs for each zone: Alarm, Trouble, and Supervisory. Ships with red enclosure. (See DN-60242.)

N-ANN-RLED: Provides alarm (red) indicators for up to 30 input zones or addressable points. (See DN-60242.)

N-ANN-RLY: Relay Module provides 10 programmable Form-C relays. Can be mounted inside the cabinet. (See DN-7107.)

N-ANN-S/PG: Serial/Parallel Printer Gateway module provides a connection for a serial or parallel printer. (See DN-7103.)

ADDRESSABLE DEVICES

All feature a polling LED and rotary switches for addressing.

NI-100: Addressable low-profile ionization smoke detector.

NP-100: Addressable low-profile photoelectric smoke detector.

NP-100T: Addressable low-profile photoelectric smoke detector with thermal sensor.

NP-100R: Remote test capable addressable photoelectric smoke detector for use with DNR(W) duct detector housing.

NH-100: Fast-response, low-profile heat detector.

NH-100R: Fast-response, low-profile heat detector with rate-of-rise option.

NH-100H: Fast-response, low-profile heat detector that activates at 190°F/88°C.

NP-A100: Addressable low-profile multi-sensor detector.

DNR: InnovairFlex low-flow non-relay duct-detector housing. (Order NP-100R separately.)

DNRW: InnovairFlex low-flow non-relay duct-detector housing, with NEMA-4 rating. Watertight. (Order NP-100R separately.)

NMM-100: Addressable Monitor Module for one zone of normally-open dry-contact initiating devices. Mounts in standard 4.0" (10.16 cm.) box. Includes plastic cover plate and end-of-line resistor. Module may be configured for either a Style B (Class B) or Style D (Class A) IDC.

NDM-100: Dual Monitor Module. Same as NMM-100 except it provides two Style B (Class B) only IDCs.

NMM-100P: Miniature version of NMM-100. Excludes LED and Style D option. Connects with wire pigtails. May mount in device backbox.

NZM-100A: Similar to NMM-100A. Addressable Monitor Module for one zone of conventional two-wire detectors. Requires resettable 24 VDC power. Refer to the *Device Compatibility Document* for listed compatible devices and quantity limitation.

NZM-100-6: Six-zone interface module. Mount one or two modules in a BB-XP cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-25 cabinet.

NMM-100-10: Ten-input monitor module. Mount one or two modules in a BB-2 cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-25 cabinet.

NC-100: Addressable Control Module for one Style Y/Z (Class B/A) zone of supervised polarized Notification Appliances. Mounts directly to a 4.0" (10.16 cm.) electrical box. Notification Appliance Circuit option requires external 24 VDC to power notification appliances.

NC-100R: Addressable relay module containing two isolated sets of Form-C contacts, which operate as a DPDT switch. Mounts directly to a 4.0" (10.16 cm.) box, surface mount using the SMB500.

NOT-BG12LX: Addressable manual pull station with interface module mounted inside.

N100-ISO: Fault Isolator Module.

SMB500: Used to mount all modules except the NMM-100P.

NOTE: For more information on Compatible Addressable Devices for use with the FireWarden-50, see the following data sheets (document numbers): N100-ISO (DN-6994), NP-100 series (DN-6995), NI-100 (DN-6996), NH-100/NH-100R (DN-6997), DNR/InnovairFlex (DN-60424, DN-60429), NP-A100 (DN-6998), NMM-100/NMM-100P/NDM-100/NZM-100 (DN-6999), NC-100 (DN-7000), NC-100R (DN-60383), NMM-100-10 (DN-6990), and NOT-BG12LX (DN-7001).

ADDRESSABLE DEVICE ACCESSORIES

End-of-Line Resistor Assembly (R-47K and R-3.9K): The 47k ohm assembly supervises the NMM-100-10, NDM-100, NMM-100P, and NC-100 module circuits. The 3.9k ohm assembly supervises the NZM-100-6 module circuit. These resistors are included with each module.

Power Supervision Relay: Supervises the power to 4-wire smoke detectors and notification appliances.

Wiring Requirements

While shielded wire is not required, it is recommended that all SLC wiring be twisted-pair to minimize the effects of electrical interference. Refer to the panel manual for wiring details.

SYSTEM SPECIFICATIONS

System Capacity

•	Intelligent Signalling Line Circuits	1
•	Addressable device capacity	. 50
•	Programmable software zones	. 20
•	Annunciators	8

Electrical Specifications

AC Power: FireWarden-50: 120 VAC, 60 Hz, 3.0 A. FireWarden-50E: 240 VAC, 50 Hz, 1.5 A. Wire size: minimum 14 AWG (2.00 mm2) with 600 V insulation. Nonpower-limited, supervised.

Battery: Two 12 V 18 AH lead-acid batteries. Battery Charger Capacity: 7-18 AH (FireWarden-50 cabinet holds maximum of two 18 AH batteries.)

Communication Loop: Supervised and power-limited.

Notification Appliance Circuits: Terminal Block provides connections for two NACs, Style Y (Class B) or Style Z (Class A). Special Application power. Power-limited, supervised circuitry. Maximum signaling current per circuit: 2.5 A. End-of-Line Resistor: 4.7k ohm, ½ watt (P/N 71252 UL listed) for Style Y (Class B) NAC. Refer to the *NOTIFIER Device Compatibility Document* for listed compatible devices.

Two Programmable Relays and One Fixed Trouble Relay: Contact rating: 2.0 A @ 30 VDC (resistive), 0.5 A @ 30 VAC (resistive). Form-C relays, nonpower-limited, nonsupervised.

Cabinet Specifications

Door: 19.26" (48.92 cm.) high x 16.82" (42.73 cm.) wide x 0.72" (1.82 cm.) deep. **Backbox:** 19.00" (48.26 cm.) high x 16.65" (42.29 cm.) wide x 5.25" (13.34 cm.) deep. **Trim Ring (TR-CE/B):** 22.00" (55.88 cm.) high x 19.65" (49.91 cm.) wide.

Shipping Specifications

Weight: 26.9 lbs. (12.20 kg.) **Dimensions:** 20.00" (50.80 cm.) high x 22.5" (57.15 cm.) wide x 8.5" (21.59 cm.) deep.

Temperature and Humidity Ranges

This system meets NFPA requirements for operation at $0-49^{\circ}\text{C}/32-120^{\circ}\text{F}$ and at a relative humidity 93% \pm 2% RH

(noncondensing) at 32°C \pm 2°C (90°F \pm 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 FireWarden-50 complies with the following NFPA 72 Fire Alarm Systems requirements:

- LOCAL (Automatic, Manual, Waterflow and Sprinkler Supervisory).
- AUXILIARY (Automatic, Manual and Waterflow) (requires 4XTM).
- REMOTE STATION (Automatic, Manual and Waterflow) (Where a DACT is not accepted, the alarm, trouble and supervisory relays may be connected to UL 864 listed transmitters. For reverse polarity signaling of alarm and trouble, 4XTM is required.)
- PROPRIETARY (Automatic, Manual and Waterflow).
- CENTRAL STATION (Automatic, Manual and Waterflow, and Sprinkler Supervised).
- OT, PSDN (Other Technologies, Packet-switched Data Network)

Agency Listings and Approvals

The listings and approvals below apply to the basic FireWarden-50 control panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

UL: S635FM approved

CSFM: 7165-0028:239
MEA: 442-06-E Vol. 2

NOTE: See DN-60446 for ULC-listed model.

NOTIFIER®, FireWarden®, and System Sensor® are registered trademarks of Honeywell International Inc. Microsoft® and Windows® are registered trademarks of the Microsoft Corporation.

©2011 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.



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.



>BAT Series Batteries

Sealed Lead-Acid or Gell Cell



Power Supplies

General

BAT Series Batteries feature a new part-numbering/listing system — providing an improved method of delivery for NOTIFIER-approved sealed lead-acid batteries for all your fire alarm system needs. Multiple brands of batteries are now offered under generic part numbers, reducing backorder situations and permitting us to deliver these products in a more timely fashion. NOTIFIER has approved the multiple brands listed below as possible product shipped for a given part number. Please note that any incoming orders for "PS Series" batteries will be converted to the equivalent BAT Series part numbers.

Features

- · Provide secondary power for control panels.
- · Sealed and maintenance-free.
- · Overcharge protected.
- Easy handling with leakproof construction.
- Ruggedly constructed, high-impact case (ABS, polystyrene, or polypropylene, depending on models).
- · Long service life.
- · Compact design.



Agency Listings and Approvals

The listings and approvals below apply to BAT Series Batteries. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

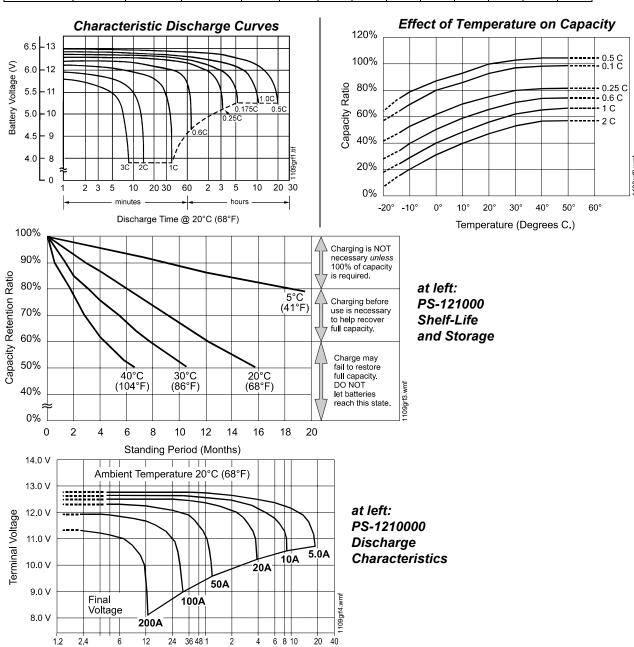
UL Recognized Components: files MH19884 (B & B Battery), MH20567 (UPG, previously Jolt), MH20845 (Power-Sonic).

Part Number Reference

CURRENT Part Number	BATTERY DESCRIPTION	ALTERNATES APPROVED: manufacturers and P/Ns shipped under BAT P/Ns
BAT-1250	12 V, 5 AH, sealed.	BP5-12 (B&B Battery); PS-1250 (Power-Sonic); SA1250 (Jolt) to be replaced with UB1250 (UPG).
BAT-1250	12 V, 5 AH, sealed.	BP5-12 (B&B Battery); PS-1250 (Power-Sonic); SA1250 (Jolt) to be replaced with UB1250 (UPG).
BAT-1270	12 V, 7 AH, sealed.	BP7-12 (B&B Battery); PS-1270 (Power-Sonic); SA1272 (Jolt) to be replaced with UB1270 (UPG).
BAT-12120	12 V, 12 AH, sealed.	BP12-12 (B&B Battery); PS-12120 (Power-Sonic); SA12120 (Jolt) to be replaced with UB12120 (UPG).
BAT-12180	12 V, 18 AH, sealed.	PS-12180 (Power-Sonic); SA12180 (Jolt) to be replaced with UB12180 (UPG).
BAT-12180	12 V, 18 AH, sealed.	PS-12180 (Power-Sonic); SA12180 (Jolt) to be replaced with UB12180 (UPG).
BAT-12260	12 V, 26 AH, sealed.	BP26-12 (B&B Battery); PS-12260 (Power-Sonic); SA12260 (Jolt) to be replaced with UB12260 (UPG).
BAT-12550	12 V, 55 AH, sealed.	PS-12550 (Power-Sonic); XSA12550 (Jolt) to be replaced with UB12550 (UPG).
BAT-12550	12 V, 55 AH, sealed.	PS-12550 (Power-Sonic); XSA12550 (Jolt) to be replaced with UB12550 (UPG).
BAT-121000	12 V, 100 AH, gell cell.	PS-121000 (Power-Sonic); XSA121000A (Jolt) to be replaced with UB121000 (UPG).

Part Number Reference

		Nominal	Discharge	DIMENSIONS										
MODEL	Nominal Voltage V	Capacity Current @20 hr. rate A.H. rate mA	Width		Depth		Height		Height over terminal		Weight			
		rate A.n.	Tate IIIA	in.	mm	in.	mm	in.	mm	in.	mm	lb.	kg.	
PS-1250	12	5	250	3.54	90	2.76	70	4.02	102	4.21	107	4.1	1.9	
PS-1270	12	7	325	5.94	151	2.56	65	3.7	94	3.86	98	5.7	2.6	
PS-12120	12	12	600	5.94	151	3.86	98	3.7	94	3.86	98	8.8	4	
PS-12180	12	18	875	7.13	181	2.99	76	6.57	167	6.57	167	12.8	5.8	
PS-12250	12	25	1300	6.89	175	6.54	166	4.92	125	4.92	125	18.7	8.5	
PS-12550	12	55	3000	10.25	260	6.6	168	8.2	208	9.45	240	39.7	18	
PS-121000	12	100	5000	12	305	6.6	168	8.2	208	9.45	240	65.7	29.8	



HOURS

Discharge Time

MINUTES

B & B BATTERY

		Non	ninal Ca	nacity (VH/	Wo	Weight		Terminal				Dimensions						
Model V		Nominal Capacity (AH)					Standard		Optional		L		w		н		TH		
		20 hr	10 hr	5 hr	1 hr	kg	lbs	Туре	Pos.	Туре	Pos.	mm	in	mm	in	mm	in	mm	in
BP5-12	12	5.00	4.75	4.25	3.00	1.86	4.10	T1	3	T2		90	3.54	70	2.76	102	4.02	106	4.17
BP7-12	12	7.00	6.65	5.95	4.20	2.60	5.73	T2	5	T1		151	5.94	65	2.56	93	3.66	98	3.86
BP12-12	12	12.00	11.40	10.20	7.20	4.03	8.89	B1	5	T1		151	5.94	98	3.86	94	3.70	98	3.86
BP26-12	12	26.00	24.70	22.10	15.60	9.40	20.73	B1	7	T2.I1	9	175	6.89	166	6.54	125	4.92	125	4.92

Charging Procedure

		Charging	Temperature compensation	Maximum charging	Charging ti 20°0	T (00)			
Application	Charging method	voltage at 20°C (V/cell)	coefficient of charging voltage (mV/°C/cell)	current (CA)	100% discharge	50% discharge	Temp (°C)		
For standby power source	Constant voltage and constant current	2.25 ~ 2.30	-3	0.3	24	20	0 – 40°C		
For cycle service	charging (with current restriction)	2.40 ~ 2.50	-4	0.3	16	10	(32 ~104°F)		
Temperature compensation of charging voltage is not needed when using the batteries within 5°C to 35°C range.									

	Discharge Time: for Model BP5-12											
Final Voltage	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr			
	Battery Output Power (W): for Model BP5-12											
10.80 V	180.8	133.1	106.6	63.5	36.39	14.57	10.05	5.62	2.94			
10.50 V	209.2	144.2	111.5	65.9	37.48	14.87	10.20	5.70	3.00			
10.20 V	222.3	149.4	115.0	67.4	38.16	15.00	10.26	5.73	3.01			
9.90 V	232.3	152.9	117.6	68.3	38.61	15.10	10.29	5.75	3.02			
9.60 V	240.0	156.0	120.0	69.0	39.0	15.20	10.32	5.75	3.02			

Constant Power Discharge Characteristics at 25°C/77°F **for BP5-12**

		Discharge Time: for Model BP7-12											
Final Voltage	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr				
	Battery Output Power (W): for Model BP7-12												
10.80 V	253.1	186.3	149.3	88.8	50.95	20.40	14.07	7.86	4.11				
10.50 V	292.9	201.8	156.2	92.2	52.47	20.81	14.28	7.98	4.20				
10.20 V	311.2	209.1	161.0	94.3	53.42	21.00	14.36	8.02	4.22				
9.90 V	325.2	214.1	164.7	95.6	54.06	21.15	14.41	8.04	4.23				
9.60 V	336.0	218.4	168.0	96.6	54.60	21.27	14.45	8.04	4.23				

Constant Power Discharge Characteristics at 25°C/77°F **for BP7-12**

	Discharge Time: for Model BP12-12											
Final Voltage	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr			
	Battery Output Power (W): for Model BP12-12											
10.80 V	433.9	319.4	256.0	152.3	87.34	34.98	24.12	13.48	7.05			
10.50 V	502.2	346.0	267.7	158.1	89.96	35.68	24.48	13.68	7.20			
10.20 V	533.6	358.5	276.0	161.7	91.57	36.00	24.61	13.75	7.23			
9.90 V	557.5	367.1	282.4	164.0	92.67	36.25	24.70	13.79	7.25			
9.60 V	576.0	374.4	288.0	165.6	93.60	36.47	24.77	13.79	7.25			

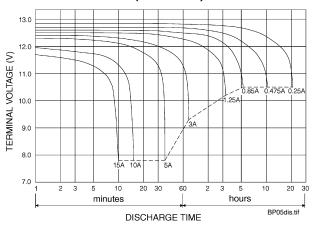
Constant Power Discharge Characteristics at 25°C/77°F **for BP12-12**

	Discharge Time: for Model BP26-12												
Final Voltage	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr				
			Battery	Output Po	wer (W): 1	for Model	BP26-12						
10.80 V	940.0	692.0	554.6	330.0	189.23	75.79	52.25	29.20	15.26				
10.50 V	1088.0	749.7	580.0	342.5	194.91	77.30	53.04	29.64	15.60				
10.20 V	1156.0	776.7	598.0	350.3	198.41	78.00	53.33	29.79	15.67				
9.90 V	1208.0	795.3	611.8	355.2	200.79	78.54	53.52	29.88	15.71				
9.60 V	1248.0	811.2	624.0	358.8	202.80	79.01	53.68	29.88	15.71				

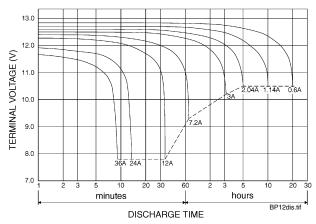
Constant Power Discharge Characteristics at 25°C/77°F **for BP26-12**

B&BATTERY

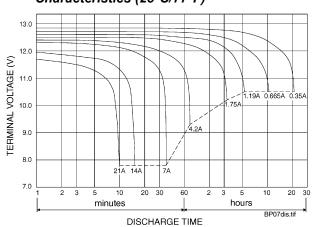
BP5-12 Battery Discharge Characteristics (25°C/77°F)



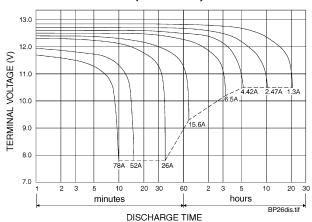
BP12-12 Battery Discharge Characteristics (25°C/77°F)



BP7-12 Battery Discharge Characteristics (25°C/77°F)



BP26-12 Battery Discharge Characteristics (25°C/77°F)



BP05-12



BP12-12



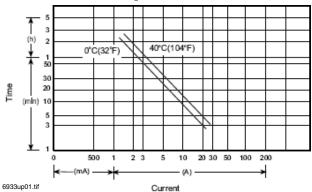
BP26-12



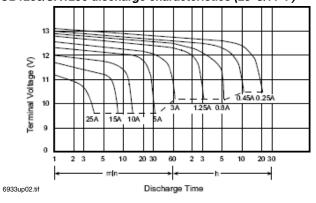
UB1250 has the same specifications as previous Jolt SA1250; SA1272 to be replaced with UB1270 (specs/diagrams pending).

UB1250 (previously SA1250) Diagrams

UB1250/SA1250 discharge current vs. time



UB1250/SA1250 discharge characteristics (25°C/77°F)



UB1250, SA1250 Specifications

- · Nominal voltage: 12 V.
- Nominal capacity (20 hr): 5.0 AH.
- Dimensions: total height 107 mm (4.21"); container height 101 mm (3.98"); length 90 mm (3.54"); width 70 mm (2.76").
- Weight: approximately 1.83 kg (4.03 lbs).
- · Container material: UL94HB ABS, UL94V-0 ABS.
- Internal resistance (25°C, 77°F): ~ 32 m.
- Discharge capacity under different temperatures:

40°C: ~ 102% 25°C: ~ 100% 0°C: ~ 85%

Capacity 25°C/77°F:

20 hr @ 0.25 A: 5.0 AH.

5 hr @ 0.8 A: 4.0 AH.

1 hr @ 3.0 A: 3.0 AH.

1 C @ 5.0 A: 2.5 AH.

• Charging voltage (25°C, 77°F):

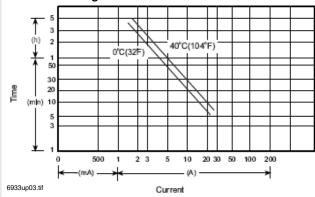
Standby use: $13.65 \text{ V} \pm 0.15 \text{ V}$. Cycle use: $14.7 \text{ V} \pm 0.3 \text{ V}$.

- Maximum discharge current: 60 A (5 sec).
- Maximum charging current: 1.5 A.
- Self-discharge residual capacity (25°C, 77°F):

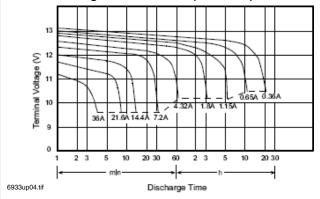
After 3 months: ~ 90%. After 6 months: ~ 82%. After 12 months: ~ 70%.

SA1272 Diagrams

SA1272 discharge current vs. time



SA1272 discharge characteristics (25°C/77°F)



SA1272 Specifications

- Nominal voltage: 12 V.
- Nominal capacity (20 hr): 7.2 AH.
- Dimensions: total height 100 mm (3.94"); container height 94 mm (3.70"); length 151 mm (5.95"); width 65 mm (2.56").
- Weight: approximately 2.66 kg (5.85 lbs).
- Container material: UL94HB ABS, UL94V-0 ABS.
- Internal resistance (25°C, 77°F): ~ 22 m.
- Discharge capacity under different temperatures:

40°C: ~ 102% 25°C: ~ 100%

0°C: ~ 85%

Capacity 25°C/77°F:

20 hr @ 0.36 A: 7.2 AH.

5 hr @ 1.15 A: 5.76 AH.

1 hr @ 4.32 A: 4.32 AH.

1 C @ 7.2 A: 3.6 AH.

• Charging voltage (25°C, 77°F):

Standby use: $13.65 \text{ V} \pm 0.15 \text{ V}$. Cycle use: $14.7 \text{ V} \pm 0.3 \text{ V}$.

- Maximum discharge current: 90 A (5 sec).
- · Maximum charging current: 2.16 A.
- Self-discharge residual capacity (25°C, 77°F):

After 3 months: ~ 90%.

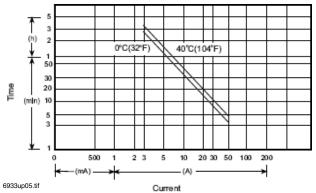
After 6 months: ~ 82%.

After 12 months: ~ 70%.

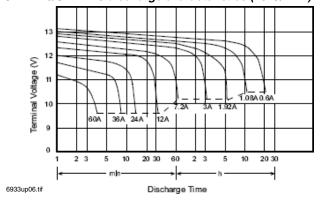
Same specifications as previous Jolt models; packaging and part numbers are the only changes.

UB12120 (was \$A12120) Diagrams

UB12120/SA12120 discharge current vs. time



UB12120/SA12120 discharge characteristics (25°C/77°F)



UB12120, SA12120 Specifications

- · Nominal voltage: 12 V.
- Nominal capacity (20 hr): 12.0 AH.
- Dimensions: total height 100 mm (3.94"); container height 94 mm (3.70"); length 151 mm (5.95"); width 98 mm (3.86").
- Weight: approximately 4.10 kg (9.04 lbs).
- Container material: UL94HB ABS, UL94V-0 ABS.
- Internal resistance (25°C, 77°F): ~ 14 m.
- Discharge capacity under different temperatures:

40°C: ~ 102%

25°C: ~ 100%

0°C: ~ 85%

Capacity 25°C/77°F:

20 hr @ 0.6 A: 12.0 AH.

5 hr @ 1.92 A: 9.6 AH.

1 hr @ 7.2 A: 7.2 AH.

1 C @ 12.0 A: 6.0 AH.

• Charging voltage (25°C, 77°F):

Standby use: 13.65 V \pm 0.15 V.

Cycle use: $14.7 \text{ V} \pm 0.3 \text{ V}$.

Maximum discharge current: 120 A (5 sec).

Maximum charging current: 3.6 A.

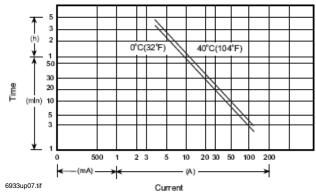
Self-discharge residual capacity (25°C, 77°F):

After 3 months: ~ 90%. After 6 months: ~ 82%.

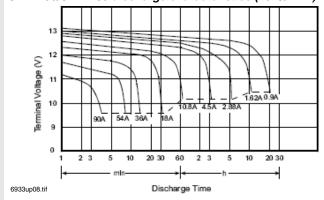
After 12 months: ~ 70%.

UB12180 (was SA12180) Diagrams

UB12180/SA12180 discharge current vs. time



UB12180/SA12180 discharge characteristics (25°C/77°F)



UB12180, SA12180 Specifications

- Nominal voltage: 12 V.
- Nominal capacity (20 hr): 18.0 AH.
- Dimensions: total height 167 mm (6.58"); container height 167 mm (6.58"); length 181 mm (7.13"); width 76 mm (2.29").
- Weight: approximately 6.06 kg (13.36 lbs).
- Container material: UL94HB ABS, UL94V-0 ABS.
- Internal resistance (25°C, 77°F): ~ 13 m.
- Discharge capacity under different temperatures:

40°C: ~ 102%

25°C: ~ 100%

0°C: ~ 85%

• Capacity 25°C/77°F:

20 hr @ 0.9 A: 18.0 AH.

5 hr @ 2.88 A: 14.4 AH.

1 hr @ 10.8 A: 10.8 AH.

1 C @ 18.0 A: 9.0 AH.

• Charging voltage (25°C, 77°F):

Standby use: $13.65 \text{ V} \pm 0.15 \text{ V}$.

Cycle use: $14.7 \text{ V} \pm 0.3 \text{ V}$.

- Maximum discharge current: 300 A (5 sec).
- Maximum charging current: 5.4 A.
- Self-discharge residual capacity (25°C, 77°F):

After 3 months: ~ 90%.

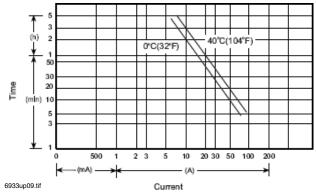
After 6 months: ~ 82%.

After 12 months: ~ 70%.

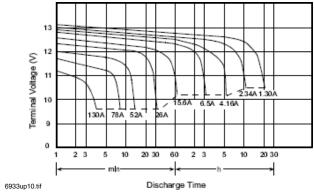
Same specifications as previous Jolt models; packaging and part numbers are the only changes.

UB12260 (was SA12260) Diagrams

UB12260/SA12260 discharge current vs. time



UB12260/SA12260 discharge characteristics (25°C/77°F)



UB12260, SA12260 Specifications

- · Nominal voltage: 12 V.
- Nominal capacity (20 hr): 26.0 AH.
- Dimensions: total height 125 mm (4.92"); container height 125 mm (4.92"); length 166 mm (6.54"); width 175 mm (6.89").
- Weight: approximately 8.80 kg (19.40 lbs).
- Container material: UL94HB ABS, UL94V-0 ABS.
- Internal resistance (25°C, 77°F): ~ 10 m.
- Discharge capacity under different temperatures:

40°C: ~ 102%

25°C: ~ 100%

0°C: ~ 85%

• Capacity 25°C/77°F:

20 hr @ 1.3 A: 26.0 AH.

5 hr @ 4.16 A: 20.8 AH.

1 hr @ 15.6 A: 15.6 AH.

1 C @ 26.0 A: 13.0 AH.

• Charging voltage (25°C, 77°F):

Standby use: 13.65 V \pm 0.15 V.

Cycle use: $14.7 \text{ V} \pm 0.3 \text{ V}$.

- Maximum discharge current: 300 A (5 sec).
- Maximum charging current: 7.8 A.
- Self-discharge residual capacity (25°C, 77°F):

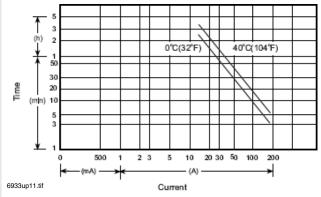
After 3 months: ~ 90%.

After 6 months: ~ 82%.

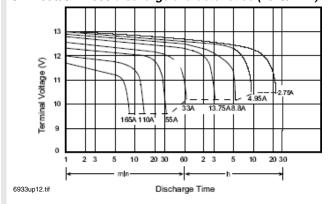
After 12 months: ~ 70%.

UB12550 (was SA12550) Diagrams

UB12550/SA12550 discharge current vs. time



UB12550/SA12550 discharge characteristics (25°C/77°F)



UB12550, SA12550 Specifications

- · Nominal voltage: 12 V.
- Nominal capacity (20 hr): 55.0 AH.
- Dimensions: total height 234.5 mm (9.23"); container height 216.5 mm (8.52"); length 229 mm (9.02"); width 138 mm (5.43").
- Weight: approximately 19.0 kg (41.8 lbs).
- Container material: UL94HB ABS, UL94V-0 ABS.
- Internal resistance (25°C, 77°F): ~ 8 m.
- Discharge capacity under different temperatures:

40°C: ~ 102%

25°C: ~ 100%

0°C: ~ 85%

Capacity 25°C/77°F:

20 hr @ 2.75 A: 55.0 AH.

5 hr @ 8.8 A: 44.0 AH.

1 hr @ 33.0 A: 33.0 AH.

1 C @ 55.0 A: 27.5 AH.

• Charging voltage (25°C, 77°F):

Standby use: $13.65 \text{ V} \pm 0.15 \text{ V}$.

Cycle use: $14.7 \text{ V} \pm 0.3 \text{ V}$.

- Maximum discharge current: 600 A (5 sec).
- Maximum charging current: 16.5 A.
- Self-discharge residual capacity (25°C, 77°F):

After 3 months: ~ 90%.

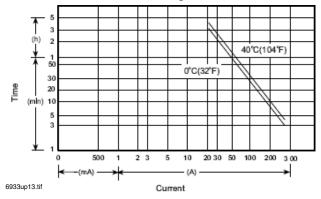
After 6 months: ~ 82%.

After 12 months: ~ 70%.

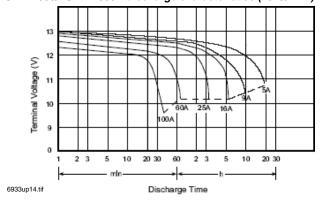
Same specifications as previous Jolt models; packaging and part numbers are the only changes.

UB121000 (XSA121000A) Diagrams

UB121000/XSA121000A discharge current vs. time



UB121000/XSA121000A discharge characteristics (25°C/77°F)



UB121000 (XSA121000A) Diagrams

- Nominal voltage: 12 V.
- Nominal capacity (20 hr): 100.0 AH.
- Dimensions: total height 221 mm (8.70"); container height 214 mm (8.43"); length 329 mm (12.95"); width 172 mm (6.77").
- Weight: approximately 34.00 kg (74.8 lbs).
- Container material: UL94HB ABS, UL94V-0 ABS.
- Internal resistance (25°C, 77°F): ~ 6.5 m.
- Discharge capacity under different temperatures:

40°C: ~ 102% 25°C: ~ 100%

0°C: ~ 85%

• Capacity 25°C/77°F:

20 hr @ 5.0 A: 100.0 AH.

5 hr @ 16.0 A: 80.0 AH.

1 hr @ 60.0 A: 60.0 AH.

1 C @ 100.0 A: 50.0 AH.

• Charging voltage (25°C, 77°F):

Standby use: 13.65 V \pm 0.15 V.

Cycle use: $14.7 \text{ V} \pm 0.3 \text{ V}$.

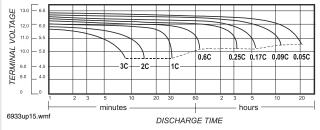
- Maximum discharge current: 600 A (5 sec).
- · Maximum charging current: 30 A.
- Self-discharge residual capacity (25°C, 77°F):

After 3 months: ~ 90%. After 6 months: ~ 82%.

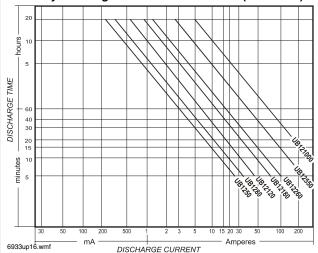
After 12 months: ~ 70%.

UPG Summary Diagrams

Summary discharge characteristics



Summary discharge current vs. time curve (25°C/77°F)







Same specifications as previous Jolt models; packaging and part numbers are the only changes.

Charging Procedure: UPG Battery

		Charging	Temperature compensation	Maximum charging	Charging to 25°C	me 0.1 CA, C (h)	T (00)	
Application	Charging method	voltage at 25°C (V/cell)	coefficient of charging voltage (mV/°C/cell)	current (CA)	100% discharge	50% discharge	Temp (°C)	
	Constant voltage and constant current	2.25 ~ 2.30	- 3.3 (-1.8 mV/°F/cell)	0.3	T³ 24	T³ 20	0 – 40°C	
For cycle ser- vice	charging (with current restriction)	2.40 ~ 2.50	– 5 (–2.8 mV/°F/cell)	0.3	16 < T < 24	10 < T < 24	(32 – 104°F)	

Temperature compensation of charging voltage is not needed when using the batteries within 5°C to 35°C range.

NOTIFIER® is a registered trademark of Honeywell International Inc. Batteries display trademarks of the manufacturer.

©2009 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.



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.

>NOT-BG12LX

Addressable Manual Pull Station For FireWarden Series Panels



Intelligent/Addressable Devices

General

The Notifier NOT-BG12LX is a state-of-the-art, dual-action (i.e., requires two motions to activate the station) pull station that includes an addressable interface for FireWarden series intelligent control panels, and the NSP-25 panel. Because the NOT-BG12LX is addressable, the control panel can display the exact location of the activated manual station. This leads fire personnel quickly to the location of the alarm.

Features

- Maintenance personnel can open station for inspection and address setting without causing an alarm condition.
- Built-in bicolor LED, which is visible through the handle of the station, flashes in normal operation and latches steady red when in alarm.
- Handle latches in down position and the word "ACTIVATED" appears to clearly indicate the station has been operated.
- Captive screw terminals wire-ready for easy connection to SLC loop (accepts up to 12 AWG/3.25 mm² wire).
- Can be surface mounted (with SB-10 or SB-I/O) or semiflush mounted. Semi-flush mount to a standard singlegang, double-gang, or 4" (10.16 cm) square electrical box.
- · Smooth dual-action design.
- Meets ADAAG controls and operating mechanisms guidelines (Section 4.1.3[13]); meets ADA requirement for 5 lb. maximum activation force.
- · Highly visible.
- · Attractive shape and textured finish.
- · Key reset.
- Includes Braille text on station handle.
- · Optional trim ring (BG12TR).
- Meets UL 38, Standard for Manually Actuated Signaling Boxes

Construction

Shell, door, and handle are molded of durable polycarbonate material with a textured finish.

Specifications

Shipping Weight: 9.6 oz. (272.15 g)
Normal operating voltage: 24 VDC.
Maximum SLC loop voltage: 28.0 VDC.

• Maximum SLC loop current: μA.

Temperature Range: 32°F to 120°F (0°C to 49°C)
Relative Humidity: 10% to 93% (noncondensing)

· For use indoors in a dry location

Installation

The NOT-BG12LX will mount semi-flush into a single-gang, double-gang, or standard 4" (10.16 cm) square electrical outlet box, or will surface mount to the model SB-10 or SB-I/O surface backbox. If the NOT-BG12LX is being semi-flush mounted, then the optional trim ring (BG12TR) may be used.



The NOT-BG12LX Addressable Manual Pull Station

The BG12TR is usually needed for semi-flush mounting with 4" (10.16 cm) or double-gang boxes (not with single-gang boxes).

Operation

Pushing in, then pulling down on the handle causes it to latch in the down/activated position. Once latched, the word "ACTIVATED" (in bright yellow) appears at the top of the handle, while a portion of the handle protrudes from the bottom of the station. To reset the station, simply unlock the station with the key and pull the door open. This action resets the handle; closing the door automatically resets the switch.

Each manual station, on command from the control panel, sends data to the panel representing the state of the manual switch. Two rotary decimal switches allow address settings (1 – 99 on NFW2-100/NFW2-100C, 1 – 50 for NFW-50/NFW-50C).

Architectural/Engineering Specifications

Manual Fire Alarm Stations shall be non-coded, with a keyoperated reset lock in order that they may be tested, and so designed that after actual Emergency Operation, they cannot be restored to normal except by use of a key. An operated station shall automatically condition itself so as to be visually detected as activated. Manual stations shall be constructed of red-colored polycarbonate material with clearly visible operating instructions provided on the cover. The word FIRE shall appear on the front of the stations in white letters, 1.00 inches (2.54 cm) or larger. Stations shall be suitable for surface mounting on matching backbox SB-10 or SB-I/O; or semi-flush mounting on a standard single-gang, double-gang, or 4" (10.16 cm) square electrical box, and shall be installed within

the limits defined by the Americans with Disabilities Act (ADA) or per national/local requirements. Manual Stations shall be Underwriters Laboratories listed.

Manual stations shall connect with two wires to one of the control panel SLC loops. The manual station shall, on command from the control panel, send data to the panel representing the state of the manual switch. Manual stations shall provide address setting by use of rotary decimal switches.

Product Line Information

NOT-BG12LX: Dual-action addressable pull station. Includes key locking feature.

NOT-BG12LXA: Canadian Dual-action addressable pull station. Includes key locking feature.

SB-10: Surface backbox; metal.
SB-I/O: Surface backbox; plastic.
BG12TR: Optional trim ring.
17021: Keys, set of two.

Agency Listings and Approvals

In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL Listed: S692 (listed for Canadian and non-Canadian applications)
- MEA: 67-02-E Vol. IVCSFM: 7150-0028:0199
- FDNY:
- FM Approved

Patented: U.S. Patent No. D428,351; 6,380,846; 6,314,772;

6,632,108.

Notifier® is a registered trademark of Honeywell International Inc. ©2010 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.



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.



>NP-100(A), NP-100T(A), NP-100R(A)

Addressable Photoelectric Detectors for the FireWarden Series



Addressable

General

The NP-100 and NP-100T addressable, low-profile plug-in photoelectric detectors use a state-of-the-art photoelectric sensing chamber with communications to provide open area protection and are used exclusively with NOTIFIER's FireWarden Series (FireWarden-100-2 and FireWarden-50) Addressable Fire Alarm Control Panels (FACPs). The NP-100T adds thermal sensors that will alarm at a fixed temperature of 135°F (57°C). Since these detectors are addressable, they will help emergency personnel quickly locate a fire during its early stages, potentially saving precious rescue time while also reducing property damage. Two LEDs on each sensor light to provide a local, visible sensor indication. Remote LED annunciator capability is available as an optional accessory (P/N RA100Z(A)). The NP-100R is a remote test capable detector for use with DNR(W) duct smoke detector housings.

Features

SLC loop:

- Two-wire loop connection.
- · Unit uses base for wiring.

Addressing:

- · Addressable by device.
- Direct Decade entry of address: 01 99 with FireWarden-100-2, and 01 – 50 with FireWarden-50.

Architecture:

- Unique single-source, dual-chamber design to respond quickly and dependably to a broad range of fires.
- Sleek, low-profile design.
- Integral communications and built-in type identification.
- Built-in tamper-resistant feature.
- Removable cover and insect-resistant screen for simple field cleaning.

Operation:

- Withstands air velocities up to 4,000 feet-per-minute (20 m/ sec.) without triggering a false alarm.
- Factory preset at 1.5% nominal sensitivity for panel alarm threshold level.
- Visible LED "blinks" when the unit is addressed (communicating with the fire panel) and latches on in alarm.

Mechanicals:

- · Sealed against back pressure.
- · Direct surface mounting or electrical box mounting.
- Mounts to: single-gang box, 3.5" (8.89 cm) or 4.0" (10.16 cm) octagonal box, or 4.0" (10.16 cm) square electrical box (using a plaster ring included).

Other system features:

- Fully coated circuit boards and superior RF/transient protection.
- 94-V0 plastic flammability rating.
- Low standby current.

Options:

Remote LED output connection (P/N RA100Z).



NP-100 with B710LP base



NP-100T with B710LP base

Applications

Use photoelectric detectors in life-safety applications to provide a broad range of fire-sensing capability, especially where smoldering fires are anticipated. Ionization detectors are often better than photoelectric detectors at sensing fast, flaming fires.

Construction

These detectors are constructed of off-white LEXAN®. NP-100(T) plug-in, low-profile smoke detectors are designed to commercial standards and offer an attractive appearance.

Installation

NP-100(T) plug-in detectors use a detachable mounting base to simplify installation, service and maintenance. Mount base on box which is at least 1.5 inches (3.81 cm) deep. Suitable boxes include:

- 4.0" (10.16 cm) square box with plaster ring.
- 4.0" (10.16 cm) octagonal box.
- 3.5" (8.89 cm) octagonal box.
- · Single-gang box.

NOTE: Because of the inherent supervision provided by the SLC loop, **end-of-line resistors** are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class B) wiring. NP-100R mounts in a DNR(W) duct detector housing.

Operation

Each NP-100/T/R uses one of 99 possible addresses on the FireWarden-100-2 and one of 50 possible addresses on the FireWarden-50 Signaling Line Circuit (SLC). It responds to regular polls from the system and reports its type and status.

The NP-100/T/R addressable photoelectric sensor's unique unipolar chamber responds quickly and uniformly to a broad range of smoke conditions and can withstand wind gusts up to 4,000 feet-per-minute (20 m/sec.) without sending an alarm level signal. Because of its unipolar chamber, the NP-100/T/R is approximately two times more responsive than most photoelectric sensors. This makes it a more stable detector.

Detector Sensitivity Test

Each detector can have its sensitivity tested (required per NFPA 72, Chapter 14 on *Inspection, Testing and Maintenance*) when installed/connected to a FireWarden-100-2 or FireWarden-50 addressable fire alarm control panel. The results of the sensitivity test can be printed off the FireWarden-100-2 or FireWarden-50 for record keeping.

Specification

Voltage range: 15 – 32 VDC (peak). Standby current: 300 µA @ 24 VDC.

LED current: 6.5 mA @ 24 VDC (latched "ON").

Air velocity: 4,000 ft./min. (20 m/sec.) maximum.

Diameter: 6.1" (15.5 cm) installed in B710LP base.

Height: 2.1" (5.33 cm) installed in B710LP base.

Weight: 3.6 oz. (102 g).

Operating temperature range: for NP-100: 0° C to 49° C (32° F to 120° F); for NP-100T: 0° C to 38° C (32° F to 100° F). NP-100R: installed in a DNR(W) -20°C to 70° C (-4°F to 158° F).

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

Relative humidity: 10% – 93%, non-condensing.

Listings

Listings and approvals below apply to the NP-100 and NP-100T detectors. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL Listed, file S1115.
- CSFM approved: file 7272-0028:231.
- MEA approved: file 243-02-E Vol. 2.
- · Maryland State Fire Marshal: permit 2173.
- FM approved.

Product Line Information

NP-100: Adressable photoelectric detector; B710LP base included.

NP-100A: Sames as NP-100 with ULC Listing (B710LPA base included).

NP-100T: Same as NP-100 but with *thermal* element; B710LP base included.

NP-100TA: Same as NP-100T with ULC Listing (B710LPAbase included).

NP-100R: Remote test capable addressable photoelectric detector for use with a DNR(W) duct detector housing.

B710LP: Plug-in detector base. Dimensions: 6.1" (15.5 cm). Mounting: 4.0" (10.16 cm) square box with or without plaster ring, 4.0" (10.16 cm) octagonal box, 3.5" (8.89 cm) octagonal box, or single-gang box. All mounting boxes have a minimum depth of 1.5" (3.81 cm).

B224RB: Plug-in System Sensor *relay* detector base. *Diameter:* 6.2" (15.75 cm). *Mounting:* 4.0" (10.16 cm) square box with or without plaster ring, 4.0" (10.16 cm) octagonal box, or 3.5" (8.89 cm) octagonal box. All mounting boxes have a minimum depth of 1.5" (3.81 cm).

B224BI: Plug-in System Sensor *isolator* detector base. Maximum 25 devices between isolator bases *(see DN-6994)*. *Diameter:* 6.2" (15.75 cm). *Mounting:* 4.0" (10.16 cm) square box with or without plaster ring, 4.0" (10.16 cm) octagonal box, or 3.5" (8.89 cm) octagonal box. All mounting boxes have a minimum depth of 1.5" (3.81 cm).

B200SR: Sounder base capable of producing temporal-3 or steady sound output.

ACCESSORIES:

RA100Z(A): Remote LED annunciator. 3 – 32 VDC. Mounts to a U.S. single-gang electrical box. *For use with B501 and B710LP bases only.*

SMK400E: Surface mounting kit provides for entry of surface wiring conduit. For use with B501 base only.

RMK400: Recessed mounting kit. For use with B501 base only.

M02-04-00: Test magnet.

M02-09-00: Test magnet with telescoping handle.

XR2B: Detector removal tool. Allows installation and/or removal of detector heads from bases in high ceiling applications.

XP-4: Extension pole for XR2B. Comes in three 5-foot (1.524 m) sections.

T55-127-010: Detector removal tool without pole.

BCK-200B: Black detector covers, box of 10. **WCK-200B:** White detector covers, box of 10.

NOTIFIER® is a registered trademark of Honeywell International Inc. Bayblend® is a registered trademark of Bayer Corporation. ©2008 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.



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.

SpectrAlert® Advance

Selectable Output Notification Appliances



Audio/Visual Devices

General

System Sensor® SpectrAlert® Advance selectable-output horns, strobes and horn/strobes are rich with features guaranteed to cut installation times and maximize profits. The SpectrAlert Advance series of notification appliances is designed to simplify your installations, with features such as: plug-in designs, instant feedback messages to ensure correct installation of individual devices, and eleven field-selectable candela settings for wall and ceiling strobes and horn/strobes.

More specifically, when installing Advance products, first attach a universal mounting plate to a four-inch square, four-inch octagon, or double-gang junction box. The two-wire mounting plate attaches to a single-gang junction box.

Then, connect the notification appliance circuit wiring to the SEMS terminals on the mounting plate.

Finally, attach the horn, strobe, or horn/strobe to the mounting plate by inserting the product's tabs in the mounting plate's grooves. The device will rotate into position, locking the product's pins into the mounting plate's terminals. The device will temporarily hold in place with a catch until it is secured with a captured mounting screw.

SpectrAlert Advance products allow you to choose:

- 12 or 24 volts.
- At 24 volts, 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, or 185 candela by way of a rear-mounted slide switch and front viewing window.
- · Horn tones and volume by way of a rotary switch.
- The SpectrAlert Advance series includes outdoor notification appliances. Outdoor strobes and horn/strobes (two-wire and four-wire) are available for wall or ceiling. Outdoor horns are available for wall only. All System Sensor outdoor products are rated between -40°F and 151°F (-40°C and 66°C) in wet or dry applications.

Models available:

- Indoor wall-mount: horn, strobe, 2-wire horn/strobe, 4-wire horn/strobe.
- Indoor ceiling-mount: strobe, 2-wire horn/strobe, 4-wire horn/strobe.
- Outdoor wall-mount: horn, strobe, 2-wire horn/strobe, 4-wire horn/strobe.
- Outdoor ceiling-mount: strobe, 2-wire horn/strobe, 4-wire horn/strobe.

Features

- Plug-in design.
- Same mounting plate for wall- and ceiling-mount units.
- Shorting spring on mounting plate for continuity check before installation.
- · Captive mounting screw.
- · Tamper-resistance capability.
- Field-selectable candela settings on wall and ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.
- Automatic selection of 12 or 24 volt operation at 15 and 15/ 75 candela.
- Outdoor wall and ceiling products.



Indoor Ceiling Horn/Strobe



Outdoor Ceiling Strobe



Indoor Wall Horn/Strobe



Indoor Ceiling Strobe



Indoor Wall Horn



Outdoor Wall Strobe

- Outdoor products rated from -40°F and 151°F (-40°C and 66°C).
- Outdoor products rainproof per UL50 (NEMA 3R) and weatherproof per NEMA 4X, IP56
- · Minimal intrusion into the backbox.
- Horn rated at 88+ dbA at 16 volts.
- · Rotary switch for tone selection.
- · Three horn volume settings.
- · Electrically compatible with existing SpectrAlert products.

Engineering Specifications

SpectrAlert Advance horns, strobes, and horn/strobes shall mount to a standard 4.0" x 4.0" x 1.5" (10.16 x 10.16 x 3.81 cm) backbox, 4.0" (10.16 cm) octagonal backbox, or a doublegang backbox. Two-wire products shall also mount to a singlegang 2.0" x 4.0" x 1.875" (5.08 x 10.16 x 4.763 cm) backbox. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync•Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync•Circuit Module, 12volt rated notification appliance circuit outputs shall operate between 9 and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32°F and 120°F (0°C and 49°C) from a regulated DC, or full-wave-rectified, unfiltered power supply. Strobes and horn/strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.

STROBE

The strobe shall be a System Sensor SpectrAlert Advance Model ______ listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

HORN/STROBE COMBINATION

The horn/strobe shall be a System Sensor SpectrAlert Advance Model _______ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn/strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have three audibility options and an option to switch between a Temporal 3 pattern and a Non-Temporal (continuous) pattern. These options are set by a multiple position switch. On four-wire products, the strobe shall be powered independently of the sounder. The horn on horn/strobe models shall operate on a coded or non-coded power supply.

OUTDOOR PRODUCTS

SpectrAlert Advance outdoor horns, strobes and horn/strobes shall be listed for outdoor use by UL and shall operate between -40°F and 151°F (-40°C and 66°C). The products shall be listed for use with a System Sensor outdoor/weather-proof backbox with half-inch and three-fourths-inch conduit entries.

SYNCHRONIZATION MODULE

The module shall be a System Sensor Sync•Circuit MDL3R or MDL3W listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz and horns at Temporal 3. Also, while operating the strobes, the module shall silence the horns on horn/strobe models over a single pair of wires. The module shall mount to a 4.688" x 4.688" x 2.125" (11.906 x 11.906 x 5.398 cm) backbox. The module shall also control two Style Y (class B) circuits or one Style Z (Class A) circuit. The module shall synchronize multiple zones. Daisy-chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Strobe Current Draw, UL Maximum (mA RMS)

Cande	ala	8 –	17.5 V	16 –	33 V
Oand	Jia	DC	FWR	DC	FWR
	15	123	128	66	71
	15/75	142	148	77	81
Standard	30	NA	N/A	94	96
Candela	75	NA	NA	158	153
Range	95	NA	NA	181	176
	110	NA	NA	202	195
	115	NA	NA	210	205
	135	NA	NA	228	207
High Candela	150	NA	NA	246	220
Range	177	NA	NA	281	251
,	185	NA	NA	286	258

Operating Specifications

- Standard operating temperature: 32°F to 120°F (0°C to 49°C).
- K Series operating temperature: -40°F to 151°F (-40°C to 66°C).
- Humidity range: 10% to 93% non-condensing (indoor products).
- · Strobe flash rate: 1 flash per second.
- Nominal voltage: regulated 12 VDC/FWR or regulated 24 VDC/FWR. NOTE: Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.
- Operating voltage range: 8 V to 17.5 V (12 V nominal); or 16 V to 33 V (24 V nominal). NOTE: P, S, PC, and SC products will operate at 12 V nominal only for 15 cd and 15/75 cd.
- Input terminal wire gauge: 12 to 18 AWG (3.31 to 0.821 mm²).
- Ceiling-mount dimensions (including lens): 6.8" diameter x 2.5" deep (17.3 cm diameter x 6.4 cm deep).
- Wall-mount dimensions (including lens): 5.6" H x 4.7" W x 2.5" D (14.2 cm H x 11.9 cm W x 6.4 cm D).
- Horn dimensions: 5.6" H x 4.7" W x 1.3" D (14.2 cm H x 11.9 cm W x 3.3 cm D).

Agency Listings and Approvals

The listings and approvals below apply to SpectrAlert Advance Selectable Output Notification Devices. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status

- UL Listed: S4011 (HR__, HW__, P2__, P4__, PC2__, PC4__ models); S5512 (models SCR, SCRH, SCW, SCWH, SR, SRH, SW, SWH); S3593 (SCRHK, SCRK, SRHK, SRK).
- ULC Listed: S4011 (HRA, HRKA); S5512 (typically "A" models, with exception of outdoor strobes). See Canadian data sheet for listings and specifications.
- FM approved
- MEA: 452-05-E
- CSFM: 7125-1653:0186 (SCR, SCRH, SCW, SCWH, SR, SRH, SW, SWH); 7300-1653:0188 (P2_, P4_, PC2_, PC4_ modules); 7135-1653:0189 (HR, HRK, HW); 7300-1653:0187 (SCRHK, SCRK, SRHK, SRK).

Horn Current Draw, UL Maximum (mA RMS)

Sound	dB	8 –	17.5 V	16 – 33 V		
Pattern	ub	DC	FWR	DC	FWR	
Temporal	High	57	55	69	75	
Temporal	Medium	44	49	58	69	
Temporal	Low	38	44	44	48	
Non-temporal	High	57	56	69	75	
Non-temporal	Medium	42	50	60	69	
Non-temporal	Low	41	44	50	50	
Coded	High	57	55	69	75	
Coded	Medium	44	51	56	69	
Coded	Low	40	46	52	50	

Horn and Horn/Strobe Rotary Switch Setting

Setting	Repetition Rate	dB Level
1	Temporal horn	High
2	Temporal horn	Medium
3	Temporal horn	Low
4	Normal horn	High
5	Normal horn	Medium
6	Normal horn	Low
7*	Externally coded	High
8*	Externally coded	Medium
9*	Externally coded	Low

*NOTE: Settings 7, 8, and 9 are not available on 2-wire horn/strobe.

Horn and Horn/Strobe Output (dBA)

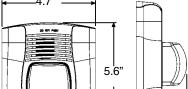
Switch	Sound		8 – 1	7.5 V	16 – 33 V			
Position	AB AB	DC	FW R	DC	FW R			
1	Temporal	High	78	78	84	84		
2	Temporal	Medium	74	74	80	80		
3	Temporal	Low	71	73	76	76		
4	Non-temporal	High	82	82	88	88		
5	Non-temporal	Medium	78	78	85	85		
6	Non-temporal	Low	75	75	81	81		
7*	Coded	High	82	82	88	88		
8*	Coded	Medium	78	78	85	85		
9*	Coded	Low	75	75	81	81		
*NOTE: Settings 7, 8, and 9 are not available on 2-wire horn/strobe.								

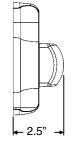
Two-Wire Horn/Strobe, *STANDARD* Candela Range (15 – 115 cd), UL Maximum Current Draw (mA RMS)

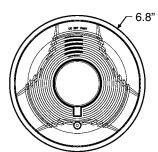
Input, Sound Pattern, dB	8 – 17.5 V		16 – 33 V						
Level	15	15/75	15	15/75	30	75	95	110	115
DC Input, Temporal, High	137	147	79	90	107	176	194	212	218
DC Input, Temporal, Medium	132	144	69	80	97	157	182	201	210
DC Input, Temporal, Low	132	143	66	77	93	154	179	198	207
DC Input, Non-temporal, High	141	152	91	100	116	176	201	221	229
DC Input, Non-temporal, Medium	133	145	75	85	102	163	187	207	216
DC Input, Non-temporal, Low	131	144	68	79	96	156	182	201	210
FWR Input, Temporal, High	136	155	88	97	112	168	190	210	218
FWR Input, Temporal, Medium	129	152	78	88	103	160	184	202	206
FWR Input, Temporal, Low	129	151	76	86	101	160	184	194	201
FWR Input, Non-temporal, High	142	161	103	112	126	181	203	221	229
FWR Input, Non-temporal, Medium	134	155	85	95	110	166	189	208	216
FWR Input, Non-temporal, Low	132	154	80	90	105	161	184	202	211

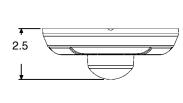
Two-Wire Horn/Strobe, HIGH Candela Range (135 - 185 cd), **UL Maximum Current Draw (mA RMS)**

DC Input	16 – 33 V				FWR Input	16 – 33 V			
Do input	135	150	177	185	i wix iliput	135	150	177	185
DC, Temporal, High	245	259	290	297	FWR, Temporal, High	215	231	258	265
DC, Temporal, Medium	235	253	288	297	FWR, Temporal, Medium	209	224	250	258
DC, Temporal, Low	232	251	282	292	FWR, Temporal, Low	207	221	248	256
DC, Non-temporal, High	255	270	303	309	FWR, Non-temporal, High	233	248	275	281
DC, Non-temporal, Medium	242	259	293	299	FWR, Non-temporal, Medium	219	232	262	267
DC, Non-temporal, Low	238	254	291	295	FWR, Non-temporal, Low	214	229	256	262









7087dim12009.tif

Ordering Information

Model	Description	Model	Description			
WALL HOR	N/STROBES	CEILING HORN/STROBES				
P2R	2-wire horn/strobe, standard cd, red.	PC2R	2-wire horn/strobe, standard cd, red.			
P2RH	2-wire horn/strobe, high cd, red.	PC2RH	2-wire horn/strobe, high cd, red.			
P2RK	2-wire horn/strobe, standard cd, red, outdoor.	PC2RK	2-wire horn/strobe, standard cd, red, outdoor.			
P2RHK	2-wire horn/strobe, high cd, red, outdoor.	PC2RHK	2-wire horn/strobe, high cd, red, outdoor.			
P2W	2-wire horn/strobe, standard cd, white.	PC2W	2-wire horn/strobe, standard cd, white.			
P2WH	2-wire horn/strobe, high cd, white.	PC2WH	2-wire horn/strobe, high cd, white.			
P4R	4-wire horn/strobe, standard cd, red.	PC4R	4-wire horn/strobe, standard cd, red.			
P4RH	4-wire horn/strobe, high cd, red.	PC4RH	4-wire horn/strobe, high cd, red.			
P4RK	4-wire horn/strobe, standard cd, red, outdoor.	PC4RK	4-wire horn/strobe, standard cd, red, outdoor.			
P4RHK	4-wire horn/strobe, high cd, red, outdoor.	PC4RHK	4-wire horn/strobe, high cd, red, outdoor.			
P4W	4-wire horn/strobe, standard cd, white.	PC4W	4-wire horn/strobe, standard cd, white.			
P4WH	4-wire horn/strobe, high cd, white.	PC4WH	4-wire horn/strobe, high cd, white.			
WALL STR	WALL STROBES		CEILING STROBES			
SR	Strobe, standard cd, red.	SCR	Strobe, standard cd, red.			
SRH	Strobe, high cd, red.	SCRH	Strobe, high cd, red.			
SRK	Strobe, standard cd, red, outdoor.	SCRK	Strobe, standard cd, red, outdoor.			
SRHK	Strobe, high cd, red, outdoor.	SCRHK	Strobe, high cd, red, outdoor.			
sw	Strobe, standard cd, white.	scw	Strobe, standard cd, white.			
SWH	Strobe, high cd, white.	SCWH	Strobe, high cd, white.			
ACCESSOR	ACCESSORIES					
BBS-2A	Backbox skirt, wall, red.	HR	Horn, red.			
BBSW-2A	Backbox skirt, wall, white.	HRK	Horn, red, outdoor.			
BBSC-2A	Backbox skirt, ceiling, red.	HW	Horn, white.			
BBSCW- 2A	Backbox skirt, ceiling, white.	ACCESSORIES	, continued			
SA-WBB	Weatherproof backbox, wall.	MP-2W-20BP	2-wire indoor mounting plates, pkg of 20.			
OA-WIDD						

- 1. "High cd" refers to strobes that include 135, 150, 177, and 185 candela settings. "Standard cd" refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings.
- 2. For strobes and horn/strobes, add suffix "F" for French or "B" for Bilingual.
- 3. All outdoor models ("K" suffix) include weatherproof backbox.

Sync•Circuit™ is a trademark and NOTIFIER® and SpectrAlert® are registered trademarks of Honeywell International Inc.

©2010 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.



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.



NFPA 72 section 10.18.2.1.2.8 If the documents are located in a separate enclosure or cabinet, the separate enclosure or cabinet shall be prominently labeled

FIRE ALARM DOCUMENTS.

Standard Features:

- Installed with a 2 gig digital flash drive with USB B connector
- 2 Key ring hooks to hold system keys
- Business card holder for key contacts
- Overall Dimensions are 12" x 13" tall and 2 ¼ deep
- 16 gauge steel box and cover for security
- durable powercoat baked on finish other colors available
- standard ¾"cat 30 key lock other lock assemblies available
- Solid stainless steel piano hinge
- permanently screened white ink 1" high "Fire Alarm Documents"
- Legend sheet for passwords and system information

FAD

Fire Alarm Documents Records / Programs / Software

The FAD is the perfect fit to meet the demanding code requirements today. SAE's number one goal is to manufacture code compliant solutions and this product allows you to do just that. NFPA 72 section 6.2.2.1 states, "A record of installed software and firmware version numbers shall be maintained at the location of the fire alarm control unit."

This durable 16 gauge steel enclosure with a solid piano hinge and key lock will keep all of your code required documents in one safe place. With a 2GB USB flash drive it stores your fire alarm software safe and secure eliminating the occurrences of the software not being on site when technicians arrive to service the system. Along with your fire alarm software you can store your test & inspection documents, service records, manuals & AS built drawings for the system. Using a standard USB B connector it allows you to plug in with any standard SB printer cable to upload or download information.

The FAD is designed to hold critical manuals and documents with a durable steel sleeve. It has designated hooks to organize key rings and hold important business cards for easy access and reference. Inside the cover it has a organized note table that allows for documentation for passwords and other critical system information. The steel sleeve can be easily removed to hold a 1.5" three ring binder.

The innovation of a single gang cutout inside the box to implement the infinity line products with conduit knockout access enables you to provide other system functions for test and inspection. A drill switch or a shut off switch for testing are just a few examples. See the complete line of Infinity products for single gang electrical product solutions.



ISO 9001 REGISTERED COMPANY



ACEROX



Specifications:

The Fire Alarm Document Box (FAD) shall be constructed of 18 gauge cold rolled steel, it shall have a red powder coat epoxy finish. The cover shall be permanently screened with 1" high lettering "FIRE ALARM DOCUMENTS" with indelible ink. The access door shall be locked with a 3/4" barrel lock and the hinge shall be a solid width 12" stainless steel piano hinge. The enclosure will supply 4 mounting holes.

Inside the enclosure a removable steel sleeve that will accommodate standard 8 $\frac{1}{2}$ x 11 manuals and loose document records that will be protected within the enclosure. A legend sheet permanently attached to the door for system passwords and critical information and inspection notes. The FAD will have permanently and securely mounted inside a minimum of 2GB's digital flash memory drive with a standard USB B connector for uploading and downloading information. The drive shall not be accessible without tools to any person whom gains access to the records. The enclosure shall also provide 2 key ring holders with a location to mount standard business type cards for key contact personell.



Ordering Information: Part # Description

SSU00685 Fire Alarm Storage Cabinet RED

SSU00673 Custom screening with your Logo

Check out our Infinity line eFAD single gang 2 Gig digital storage solutions (IAMEFAD)

ACER(I)



Outdoor Selectable-Output Horns, Strobes, and Horn Strobes for Wall Applications

SpectrAlert® Advance outdoor audible visible products are rich with features that cut installation times and maximize profits.





Features

- Weatherproof per NEMA 4X, IP56
- Listed to UL 1638 (strobe) and UL 464 (horn)
- Compatible with System Sensor synchronization protocol and legacy SpectrAlert products
- Field-selectable candela settings: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Rotary switch for horn tone and three volume selections
- Horn rated at 88+ dBA at 16 volts
- Rated from -40°F to 151°F
- Universal mounting plate with an onboard shorting spring that tests wiring continuity before devices are installed
- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- · Listed for ceiling or wall mounting

strobes, and horn strobes in the industry. With white or red plastic housings, wall or ceiling mounting options, and plain or FIRE-printed devices, SpectrAlert Advance can meet virtually any application requirement, including indoor, outdoor, wet, and dry applications in temperatures from –40°F to 151°F.

SpectrAlert Advance offers the broadest line of outdoor horns,

Like the entire SpectrAlert Advance line, outdoor horns, strobes, and horn strobes for wall applications include a variety of features that increase application flexibility and simplify installation. First, field-selectable settings, including candela, automatic selection of 12- or 24-volt operation, horn tones, and three volume options enable installers to easily adapt devices to meet requirements.

Next, SpectrAlert Advance devices use a universal mounting plate for both wall and ceiling applications. This mounting plate includes an onboard shorting spring that ensures wiring continuity before devices are installed, so installers can verify proper wiring without mounting the devices and exposing them to potential construction damage. Once the plates are mounted, all SpectrAlert Advance devices utilize a plug-in design with a single captured screw to speed installation and virtually eliminate costly ground faults.

Outdoor devices ship with weatherproof plastic back boxes (metal back boxes are available separately) that accommodate in-and-out wiring for daisy chaining devices. Plastic back boxes feature removable side flanges and improved resistance to saltwater corrosion. Knock-outs located on the back eliminate the need to drill holes for screw-in mounting. Plastic and metal weatherproof back boxes come with ¾-inch top and bottom conduit entries and ¾-inch knock-outs at the back. A screw-in NPT plug with an O-ring gasket for a watertight seal is included with each back box.

Agency Listings







approved

7300-1653:187 (outdoor strobes) 7125-1653:188 (horn strobes, chime strobes) 7135-1653:189 (horns, chimes)

SpectrAlert Advance Outdoor Horn, Strobe, and Horn Strobe Specifications

Architect/Engineer Specifications

General

SpectrAlert Advance outdoor horns, strobes, and horn strobes shall mount to a weatherproof back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync◆Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync◆Circuit Module, 12-volt-rated notification appliance circuit outputs shall operate between 9 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 17 and 33 volts. Outdoor SpectrAlert Advance products shall operate between −40 and 151 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Strobes and horn strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance Model ______ listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The strobe must be installed with its weatherproof back box in order to remain outdoor approved per UL. The strobe shall be suitable for use in wet environments.

Horn Strobe Combination

The horn strobe shall be a System Sensor SpectrAlert Advance Model _______ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have three audibility options and an option to switch between a temporal three pattern and a non-temporal (continuous) pattern. These options shall be set by a multiple position switch. On four-wire products, the strobe shall be powered independently of the sounder. The horn or horn strobe models shall operate on a coded or non-coded power supply. The horn strobe must be installed with its weatherproof back box in order to remain outdoor approved per UL. The horn strobe shall be suitable for use in wet environments.

Physical/Electrical Specifications	
Operating Temperature	-40°F to 151°F (-40°C to 66°C)
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12 DC/FWR or regulated 24 DC/FWR ¹
Operating Voltage Range ²	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
Input Terminal Wire Gauge	12 to 18 AWG
Wall-Mount Dimensions (including lens)	5.6 "L \times 4.7 "W \times 2.5 "D (142 mm L \times 119 mm W \times 64 mm D)
Horn Dimensions	5.6 "L \times 4.7 "W \times 1.3 "D (142 mm L \times 119 mm W \times 33 mm D)
Wall-Mount Weatherproof Back Box Dimensions (SA-WBB)	5.7"L × 5.1"W × 2.0"D (145 mm L × 130 mm W × 51 mm D)

Notes:

1. Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs. 2. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 15/75 cd.

UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)							
		8-17.5 Volts			/olts		
	Candela	DC	FWR	DC	FWR		
Standard	15	123	128	66	71		
Candela	15/75	142	148	77	81		
Range	30	NA	NA	94	96		
	75	NA	NA	158	153		
	95	NA	NA	181	176		
	110	NA	NA	202	195		
	115	NA	NA	210	205		
High	135	NA	NA	228	207		
Candela Range	150	NA	NA	246	220		
	177	NA	NA	281	251		
	185	NA	NA	286	258		
Hange							

		8-17.5 Volts 16-33 V			Volts
Sound Pattern	dB	DC	FWR	DC	FWR
Temporal	High	57	55	69	75
Temporal	Medium	44	49	58	69
Temporal	Low	38	44	44	48
Non-Temporal	High	57	56	69	75
Non-Temporal	Medium	42	50	60	69
Non-Temporal	Low	41	44	50	50
Coded	High	57	55	69	75
Coded	Medium	44	51	56	69
Coded	Low	40	46	52	50

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, Standard Candela Range (15–115 cd)									
	8-17.5 Volts		16–33 V	olts					
DC Input	15	15/75	15	15/75	30	75	95	110	115
Temporal High	137	147	79	90	107	176	194	212	218
Temporal Medium	132	144	69	80	97	157	182	201	210
Temporal Low	132	143	66	77	93	154	179	198	207
Non-Temporal High	141	152	91	100	116	176	201	221	229
Non-Temporal Medium	133	145	75	85	102	163	187	207	216
Non-Temporal Low	131	144	68	79	96	156	182	201	210
FWR Input									
Temporal High	136	155	88	97	112	168	190	210	218
Temporal Medium	129	152	78	88	103	160	184	202	206
Temporal Low	129	151	76	86	101	160	184	194	201
Non-Temporal High	142	161	103	112	126	181	203	221	229
Non-Temporal Medium	134	155	85	95	110	166	189	208	216
Non-Temporal Low	132	154	80	90	105	161	184	202	211

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, High Candela Range (135–185 cd)									
	16–33 \	/olts				16-33 Volts			
DC Input	135	150	177	185	FWR Input	135	150	177	185
Temporal High	245	259	290	297	Temporal High	215	231	258	265
Temporal Medium	235	253	288	297	Temporal Medium	209	224	250	258
Temporal Low	232	251	282	292	Temporal Low	207	221	248	256
Non-Temporal High	255	270	303	309	Non-Temporal High	233	248	275	281
Non-Temporal Medium	242	259	293	299	Non-Temporal Medium	219	232	262	267
Non-Temporal Low	238	254	291	295	Non-Temporal Low	214	229	256	262

Candela Derating

For K series products used at low temperatures, listed candela ratings must be reduced in accordance with this table.

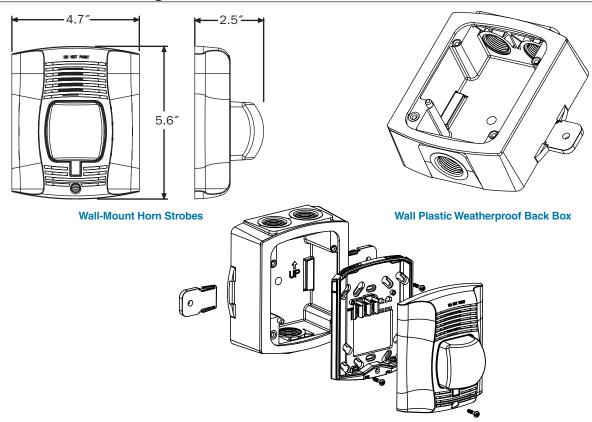
tino tabioi	
Strobe Output (cd)	
Listed Candela	Candela rating at -40°F
15	
15/75	Do not use below 32°F
30	
75	44
95	70
110	110
115	115
135	135
150	150
177	177
185	185

Horn Tones and Sound Output Data

Horn and	Horn and Horn Strobe Output (dBA)										
			8–17.5		16–3	33	24-V	olt Nomi	nal		
Switch	Sound		Volts	S	Volts	S	Reve	rberant	Ane	choic	
Position	Pattern	dB	DC	FWR	DC	FWR	DC	FWR	DC	FWR	
1	Temporal	High	78	78	84	84	88	88	99	98	
2	Temporal	Medium	74	74	80	80	86	86	96	96	
3	Temporal	Low	71	73	76	76	83	80	94	89	
4	Non-	High	82	82	88	88	93	92	100	100	
	Temporal			<u> </u>				<u> </u>			
5	Non-	Medium	78	78	85	85	90	90	98	98	
	Temporal		, 0	10			00	00			
6	Non-	Low	75	75	81	81	88	84	96	92	
	Temporal		75	13	01	01	00	04	30	32	
7 [†]	Coded	High	82	82	88	88	93	92	101	101	
8†	Coded	Medium	78	78	85	85	90	90	97	98	
9 [†]	Coded	Low	75	75	81	81	88	85	96	92	

[†]Settings 7, 8, and 9 are not available on 2-wire horn strobe.

SpectrAlert Advance Diagrams



Wall-Mount Horn Strobe with Plastic Weatherproof Back Box

SpectrAlert Advance Ordering Information

Model	Description
Wall Horn Strobes	
P2RK*†	2-Wire Horn Strobe, Standard cd, Red, Outdoor (includes plastic weatherproof back box)
P2RHK*†	2-Wire Horn Strobe, High cd, Red, Outdoor (includes plastic weatherproof back box)
P2WK*†	2-Wire Horn Strobe, Standard cd, White, Outdoor (includes plastic weatherproof back box)
P2WHK*†	2-Wire Horn Strobe, High cd, White, Outdoor (includes plastic weatherproof back box)
P4RK [†]	4-Wire Horn Strobe, Standard cd, Red, Outdoor (includes plastic weatherproof back box)
P4WK	4-Wire Horn Strobe, Standard cd, White, Outdoor (includes plastic weatherproof back box)
P2RHK-120	2-Wire Horn Strobe, High cd, Red, Outdoor, 120 V (includes plastic weatherproof back box)
Wall Strobes	
SRK*†	Strobe, Standard cd, Red, Outdoor (includes plastic weatherproof back box)
SRHK*†	Strobe, High cd, Red, Outdoor (includes plastic weatherproof back box)
SWK*†	Strobe, Standard cd, White, Outdoor (includes plastic weatherproof back box)
SWHK*†	Strobe, High cd, White, Outdoor (includes plastic weatherproof back box)
Horns	
HRK [†]	Horn, Red, Outdoor (includes plastic weatherproof back box)
Accessories	
SA-WBB	Red, Metal Weatherproof Back Box
SA-WBBW	White, Metal Weatherproof Back Box

Notes:

[†] Add "-R" to model number for weatherproof replacement device (no back box included), only for use with weatherproof outdoor flush mounting plate, WTP and WTPW. "Standard cd" refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings. "High cd" refers to strobes that include 135, 150, 177, and 185 candela settings. When replacing standard outdoor units both the device and back box must be replaced.



^{*} Add "-P" to model number for plain housing (no "FIRE" marking on cover), e.g., P2RK-P.



Audible Visible Accessories

System Sensor offers a wide range of Audible Visible (AV) accessories to enable you to meet a variety of application requirements.



Features

MP120K Mounting Plate

- Designed for both indoor and outdoor use
- Plug-in design eliminates ground faults
- Power supply that converts 120 VAC to nominal 24 V FWR
- Compatible with all two-wire SpectrAlert Advance® devices

Color Lens Attachments

- Easily turns any device into a strobe for ECS, severe weather, sprinkler activation and more
- Outdoor rated from −35°F to 151°F
- Wall- or ceiling-mount lenses available
- UL 1638 listed

WTP Weatherproof Plates

- Enables flush mounting of outdoor devices to brick, ceramic tile, concrete, and masonry brick
- · Weatherproof per NEMA 3R
- For use in both indoor and outdoor applications
- For use with all K series (outdoor) products replacement -R models
- Universal mounting plate easily attaches to the weatherproof plate

The MP120K Mounting Plate is designed to use 120 VAC to power SpectrAlert Advance horns, strobes, horn strobes, chimes, and chime strobes.

Color Lens Attachments install easily on any indoor or outdoor SpectrAlert Advance strobe devices to provide distinctive visual signaling.

WTP Series Weatherproof Plates enable installers to flush mount outdoor horns, strobes, horn strobes, speakers, and speaker strobes to a variety of wall surfaces, including brick, ceramic tile, concrete, and masonry brick. These NEMA 3R-rated plates come in red and white to suit aesthetic and functional requirements. They may be used indoors or outdoors (with outdoor devices), as required by conditions. They easily attach to the SpectrAlert Advance universal mounting plate.

Trim Rings for speakers and speaker strobes allow for additional space within the backbox. Trim rings for horns, strobes, and horn strobes allow 4-wire devices to mount to a single-gang back box.

SpectrAlert Advance Outdoor Back Boxes ensure a NEMA 4X watertight listing for AV devices. In locations where a SpectrAlert Advance device is surface mounted, **Back Box Skirts** are the best solution to mask the back box. Retrofit Plates cover paint outlines on the wall when replacing legacy SpectrAlert Advance products.

SpectrAlert Advance DECALS are for use on our non-pad printed wall- and ceiling-mount devices. Each decal comes with AGENT, EVAC, ALERT, or FIRE label options. The Sync-Circuit Module synchronizes SpectrAlert Advance strobes at 1 Hz and horns and chimes at temporal 3 over a single pair of wires. Patented module technology also allows the silencing of horns or chimes on horn strobe and chime strobe models over a pair of wires. See Datasheet A05-1007-005 for more information.

Agency Listings









Specifications

MP120K

120 VAC mounting plate model MP120K shall be listed to UL 464 for fire protective signaling systems. The mounting plate shall power a two-wire SpectrAlert® Advance horn, strobe, horn strobe, chime or chime strobe from a 120 VAC supply converted to nominal 24 V FWR. For indoor applications, the mounting plate shall be installed in a 4x4x2½ inch junction box. For outdoor applications, the mounting plate shall be installed using the proper SpectrAlert Advance outdoor weatherproof back box and outdoor listed notification appliance.

Compatibility

MP120K may be used with any of the following products at all horn and strobe settings: P2R, P2RH, P2RK, P2RHK, P2W, P2WH, SR, SRH, SRK, SRHK, SW, SWH, PC2R, PC2RH, PC2RH, PC2RHK, PC2WH, PC2WH, SCR, SCRH, SCRK, SCRHK, SCW, SCWH, HR, HRK, HW, SR-P, SW-P, SRH-P, P2W-P, P2W-P, P2WH-P, P2WH-P, PC2W-P, PC2WH-P, PC

Physical/Operating Specifications	
Standard Operating Temperature	-40°F to 151°F (-40°C to 66°C)
Humidity Range	10 to 93% non-condensing (indoor products)
Nominal Voltage	Regulated 120 VAC
Operating Voltage Range	96–132 VAC
Current Draw From AC Line	150 mA max.

WTP Weatherproof Plates

The SpectrAlert Advance weatherproof plate for horns, strobes, and horn strobes shall mount to 4x4x1¹/₄-inch and 2x4x1¹/₂-inch back boxes. The weatherproof plate for speakers and speaker strobes shall mount to 4x4x2¹/₈-inch back boxes. The weatherproof plate may be installed on brick, concrete, ceramic tile, and masonry brick and must be used with System Sensor "K" series outdoor replacement models (-R). Outdoor SpectrAlert Advance products shall operate between -40°F and 151°F.

Physical Specifications	
Speaker Strobe	$7.25'' \text{L} \times 6.26'' \text{W} \times 3.00'' \text{D}$ (including speaker and lens)
Speaker	7.25" L x 6.26" W x 1.30" D (including speaker)
Horn Strobe	6.90" L x 5.90" W x 2.80" D (including strobe lens)
Horn	6.90" L x 5.90" W x 1.60" D (including horn)

Note: WTP and WTPW are compatible with 4x4x11/4-inch and 2x4x11/2-inch back boxes. (Compatible with outdoor horns, horn strobes and strobes) WTP-SP and WTP-SPW are compatible with 4x4x21/8-inch back boxes. (Compatible with outdoor speakers and speaker strobes)

Models Available for Use with the Watertight Plates:			
WTP/WTPW	HRK-R		
WTP/WTPW	SRK-R, SRHK-R, SWK-R, SWHK-R		
WTP/WTPW	P2RK-R, P2RHK-R, P4RK-R, P2WK-R, P2WHK-R		
WTP-SP	SPRK-R, SPWK-R		
WTP-SPW	SPSRK-R		

Note: -R models ship without the outdoor back box. The weatherproof mounting plates are designed to be used only with -R replacement models.

Specifications

Color Lens Attachments

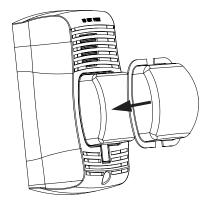
The System Sensor SpectrAlert Advance color lens attachments shall be approved for fire protective service as listed in UL 1638. The lens attachments shall only be used with non-FIRE-printed System Sensor strobe devices. The lens shall mount to any wall- or ceiling-mount strobes and shall be rated from -35°F to 151°F.

Compatibility

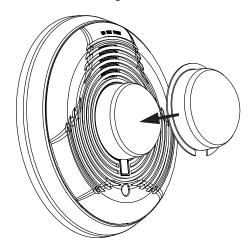
Color lens attachments may be used with the following System Sensor plain (non-FIRE-printed) indoor or outdoor strobe models: SR-P, SRH-P, SW-P, SWH-P, P2R-P, P2W-P, P2WH-P, P2WH-P, P2RHK-P, SPSW-P, SPSCW-P, SPSWH-P, SPSWH-P, SPSWV-P, SPSCW-P, SP

Color Lens Installation

Installation to Wall-Mount Strobe



Installation to Ceiling-Mount Strobe



Candela Rating for UL 1638

Light output of color lenses is measured per UL 1638, on axis, and is not derated.

5	· · · · · · · · · · · · · · · · · · ·
Strobe Output (cd)	
Candela Switch Setting	On-Axis Candela Rating (UL1638) – All Colors
15	15
15/75*	NA
30	30
75	75
95	95
110	110
115	115
135	135
150	150
177	177
185	185

^{*15/75} Candela setting not to be used with color lenses

Ordering Information

Part No.	Description		
Metal Weatherproof Backboxes			
MWBBW	white, wall-mount, compatible with: SPWK-R, SPWK, SPSWK-R, SPSWK-P, SPSWK		
MWBB	red, wall-mount, compatible with: SPRK-R, SPRK		
MWBBCW	white, ceiling-mount, compatible with: SPCWK, SPSCWK,SPCWK-R, SPSCWK, SPSCWK-R, SPSCWHK, SPSCWHK-R		
SA-WBBW	white, wall-mount, compatible with: P2WK, P2WHK, P2WHK-P, P2WK-P, SWK, SWK-P,P2WHK-F P2WK-R, SWHK-R		
SA-WBB	red wall-mount, compatible with: P2RK, P2RK-P, P2RK-R, SRK, SRK-P, SRK-R P2RHK, P4RK, P4RHK, SRHK, HRK, P2RHK-R, P2RK-R, HRK-R, P4RHK-R, P4RK-R, SRHK-R		
SA-WBBCW	white, ceiling-mount compatible with: PC2WK, SCWK		
SA-WBBW	white, wall-mount, compatible with: P2WK, P2WHK, P2WHK-P, P2WK-P, SWK, SWK-P,P2WHK-F P2WK-R, SWHK-R		
Back Box Skirts			
BBS-2	red, wall-mount, compatible with: P2R, SR, HR, CHSR, CHR, P2RH, P4R, P4RH, SRH, P2R-P, P2RH-P, P4R-P, P4RH-P, SR-P, SRH-P, SR-SP, SRH-SP, P2R-SP, P2RH-SP		
BBSC-2	red, ceiling-mount, compatible with: PC2R, SCR, PC2RH, PC4R, PC2RH-P, SCRH, PC2R-P, SCR-P, SCRH-P		
BBSW-2	white, wall-mount, compatible with: P2W, SW, HW, CHSW, CHW, P2WH, P4W, P4WH, SWH, SW- ALERT, SWH-ALERT, SW-CLR-ALERT, SW-P, SWH-P		
BBSCW-2	white, ceiling-mount, compatible with: PC2W, SCW, PC4W, PC4WH, SCWH, SCW-SP, SCWH-SP, PC2W-SP, PC2WH-P, SCWH-P, SCW-P, SC		
BBS-SP201W	Surface-mount back-box skirt for the PF24V (ExitPoint™ Directional Sounder with Voice Messaging)		
SPBBS	red, wall-mount, compatible with: SPR, SPSR, SPSR, SPRV,SPSR-P,SPSRH,SPSRH-P		
SPBBSC	red, ceiling-mount, compatible with: SPCR, SPSCR		
SPBBSW	white, wall-mount, compatible with: SPW, SPSW, SPWV, SPSW-CLR-ALERT, SPSW-ALERT, SPSWH, SPSWH-P, SPSWV, SPSWV-P		
SPBBSCW	white, ceiling-mount, compatible with: SPCW, SPSCW, SPCWV, SPSCW-CLR-ALERT, SPSCW-P, SPSCWH, SPSCWH-P, SPSCWV, SPSCWV-P, SPSCWVH, SPSCWVH-P		

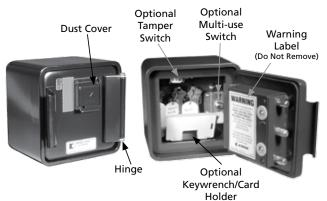
Part No.	Description		
Colored Lenses			
LENS-B	Wall-mount, blue		
LENS-R	Wall-mount, red		
LENS-G	Wall-mount, green		
LENS-A	Wall-mount, amber		
LENS-BC	Ceiling-mount, blue		
LENS-RC	Ceiling-mount, red		
LENS-GC	Ceiling-mount, green		
LENS-AC	Ceiling-mount, amber		
Decals			
DECAL-R	red, used for non-pad-printed wall-mount devices. (1 total decals per box for 5 devices)*		
DECAL-RC	red, used for non-pad-printed ceiling-mount devices (15 total decals per box for 5 devices)*		
DECAL-W	white, used for non-pad-printed wall-mount devices. (10 total decals per box) for 5 devices*		
DECAL-WC	white, used for non-pad-printed ceiling-mount devices. (15 total decals per box for 5 devices)*		
*All Decals includ	de Labels: "AGENT, EVAC, ALERT & FIRE"		
Retrofit Plates (For use with horn strobe & speaker strobe devices)		
RFPW	9.5" x 7" white		
RFP	9.5" x 7" red		
Mounting Plate			
MP120K			
-	120 VAC Adapter Mounting Plate		
Sync Modules			
MDL3W	white, 12/24 volt Sync-Circuit module.		
MDL3R	red 12/24 volt Sync-Circuit module		
Trim Rings			
TR	red, wall-mount for use with speaker devices		
TRC	red, ceiling-mount for use with speaker devices		
TRC-HS	red, ceiling-mount for use with horn strobe devices		
TRCW	white, ceiling-mount for use with speaker devices		
TRCW-HS	red, ceiling-mount for use with horn strobe devices		
TR-HS	red, wall-mount for use with horn strobes devices		
TRW			
	white, wall-mount for use with speaker devices		
TRW-HS	white, wall-mount for use with horn strobe devices		
Watertight Plat			
WTPW	white, for use with horn, strobes & horn strobe device		
WTP	red, for use with horn, strobes & horn strobe devices		
WTP-SPW	white, for use with speaker devices		
WTP-SP	red, for use with speaker devices		





Knox-Vault® 4100 Series

High Security Commercial Key Vault



A new Knox-Box that's for those applications where a 3200 Series is too small yet the 4400 Series too large. The high security 4100 Series has a hinged-door allowing for the convenient single-handed operation. The 4100 Series Knox-Vault protects and stores building keys, access cards and the Knox FDC Keywrench allowing departments to keep a keywrench on site.

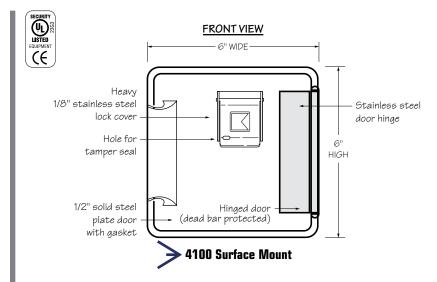
Features and Benefits

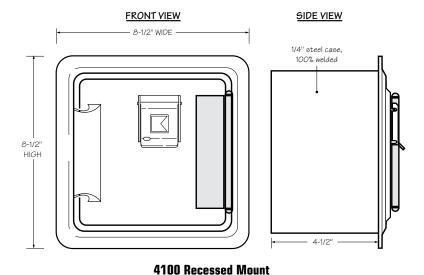
- Holds up to 24 keys in the large interior compartment
- Ensures high security with UL listed Medeco lock(s)
- Includes Knox-Coat® that is four times better than standard powder coat
- Resists moist conditions with a weather resistant silicone door gasket
- Colors: Black, Dark Bronze or Aluminum
- Weight: Surface mount 17 lbs.

Recessed mount - 19 lbs.

Options

- Alarm Tamper Switches (U/L listed)
- · Recessed Mounting Kit (RMK) for recessed models only
- Dual lock configuration
- · Access card holder
- · Keywrench holder





Ordering Specifications

To ensure procurement and delivery of the 4100 Series Knox-Vault, it is suggested that the following specification paragraph be used:

KNOX-VAULT surface/recessed mount, with/without UL Listed tamper switches. 1/4" plate steel housing, 1/2" thick solid steel door with interior silicone gasket seal. Lock UL listed. Lock has 1/8" thick stainless steel dust cover with tamper seal mounting capability. Vault has anti-theft re-locking mechanism with drill resistant hard-plate lock protector.

Exterior Dimensions: Surface mount – 6"H x 6"W x 4 1/2"D

Recessed mount - 8 1/2"H x 8 1/2"W x 4 1/2"D

Lock: UL Listed. Double-action rotating tumblers and hardened steel pins

accessed by a proprietary coded biased cut key.

Finish: Knox-Coat® proprietary finishing process

Finish Color - Black, Dark Bronze or Aluminum

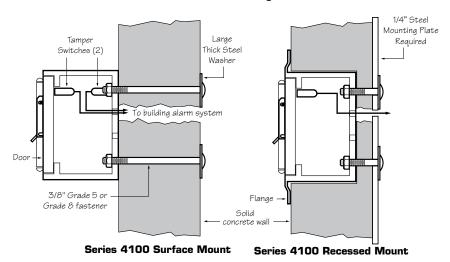
P/N: 4100 Series Knox-Vault (mfr's cat. ID)

Mfr's Name: KNOX COMPANY

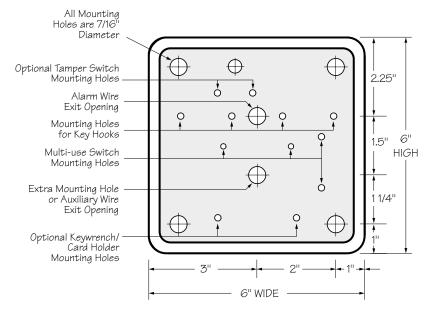


Knox-Vault[®] 4100 Series

Suggested minimum mounting height 6 feet above ground



INSIDE VIEW



Attention: KNOX-BOX® key box is a very strong device that MUST be mounted properly to ensure maximum security and resist physical attack.

Knox® Rapid Entry System

The Knox Company manufacturers a complete line of high security products including Knox-Box key boxes, key vaults, cabinets, key switches, padlocks, locking FDC caps, plugs and electronic master key security systems. For more information or technical assistance, please call Customer Service at 1-800-552-5669.

Recessed Mounting Kit

The 4100 Recessed Mounting Kit (RMK) is used for recessed models only. It contains a shell housing and mounting hardware to be cast-in-place in new concrete or masonry construction. After construction is completed, the Knox-Vault mounts inside the recessed shell housing. The RMK may only be used in new concrete or masonry construction.

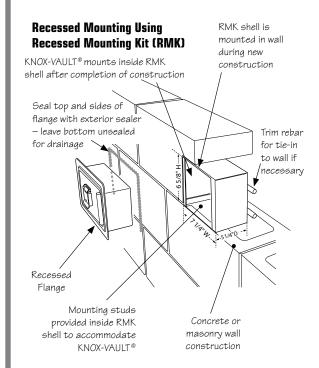
Installation In Cast Concrete

The optional Recessed Mounting Kit is for use in new concrete or masonry construction only. The kit includes a shell housing and mounting hardware to be cast-in-place. The KNOX-VAULT is mounted into the shell housing after construction is completed.

RMK Exterior Dimensions

6 5/8" H x 7 1/4" W x 5 1/4" D

IMPORTANT: Care should be taken to insure that the front of the RMK shell housing, including the cover plate and screw heads, is flush with the finish wall. The RMK must be plumbed to insure vertical alignment of the vault.



© Copyright 2009. Knox Company MKT-KBSPEC-0143-B



System Power Requirements

NFW-50 Fire Alarm Control Panel

Protected Pre	mises: Mercy Hospital Morrison Hou	use		Date: <u>9/9/2013</u>
City:	Portland	State: ME		Zip: <u>04102</u>
Prepared By:	Norrie Inc			Phone: 207-883-3473
Address:	2257 West Broadway		Email:	Filone. <u>207-003-3473</u>
City:	South Portland	State: ME		Zip: <u>04106</u>

AC Branch Current Requirements

3.00 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Primary Standby Load

0.12 Amps

Current load on the primary power supply during **non-alarm** conditions.

Primary Alarm Load

2.68 Amps

Current load on the primary power supply during **alarm** conditions.

Secondary Load Requirements

3.77 Amp Hours

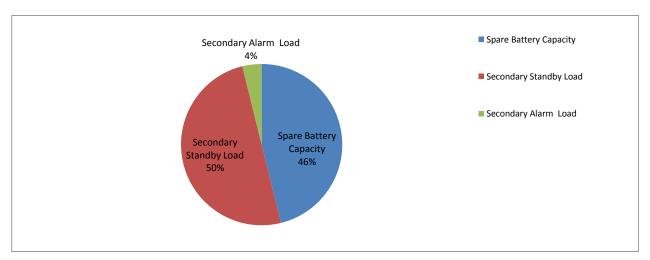
Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)	
Secondary Standby Load		Required Standby Time		
0.121 A	Х	24 hours	2.91	
Secondary Alarm Load		Required Alarm Time		
2.684 A	Х	0.084 hours	0.23	
	3.14			
	x 1.2			
	3.77			

Battery Sel	ection		7	Amp Hours
Select batteries from the list below.				
7.0 AH BAT-1270 Battery (12 volt)				
Two	☐ Four (two 12VDC sets	in parall	el)	

Battery Distribution Chart

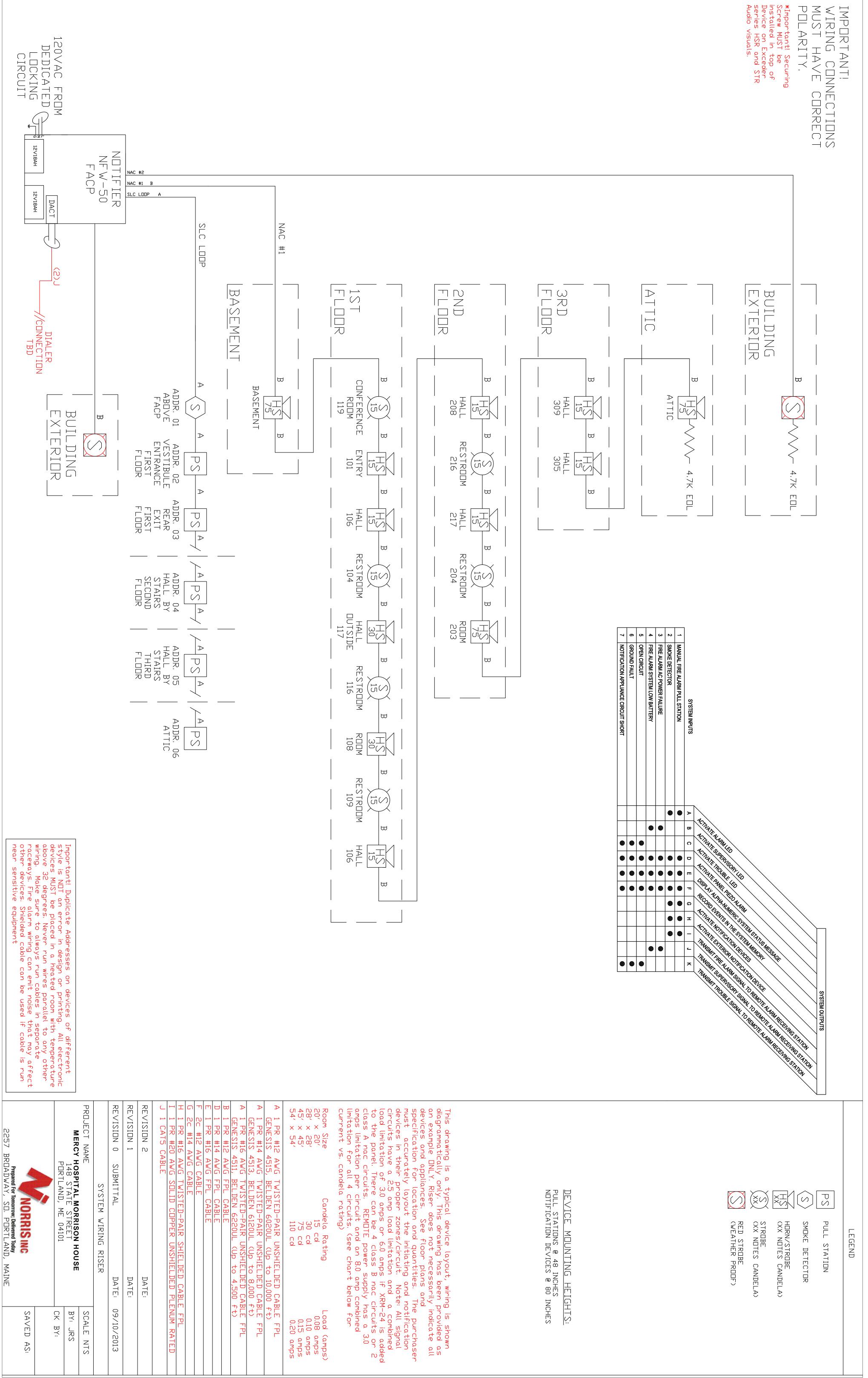
Shows amp-hour distribution of your selections.



Comments

- 1. Batteries will fit in the FACP cabinet.
- 2. Selected battery size meets secondary load requirements.
- 3. The selected batteries (7AH) are within the charger range of this power supply (7-18AH).

Spare Battery Capacity	3.23	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	3.50	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.27	Secondary Alarm Load (AH) * Derating Factor



Load (amps)
0.08 amps
0.10 amps
0.15 amps
0.20 amps

FPL FPL FPL

SLN

₽S: