

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND



BUILDING

PERMIT

This is to certify that BEAN INC LL

Located At 27 NORTHPORT

Job ID: 2010-12-150-FAFS

CBL: 401 - - A - 005 - 027 - - - - -

has permission to Install Fire Alarm main entrance vestibule

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be procured prior to occupancy.

Fire Prevention Officer

Code Enfoycement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY.

PENALTY FOR REMOVING THIS CAR

PERMIT ISSUED

JAN 19 2011

City of Portland

Conditions of Approval:

PERMIT ISSUED

JAN 19 2011

City of Portland



Fire Alarm Permit

If you or the property owner owes real estate or property taxes or user charges on any property within the city, payment arrangements must be made before permits of any kind are accepted.

Installation address: 27 Northport Drive	_CBL: 401 A005 () 25
Exact location: (within structure) main entrance vestibule	
Type of occupancy(s) (NFPA & ICC): Commercial Office	
Building owner: Martin's Point Healthcare	
Must be System Designer (point of contact): David Gagnon	
Designer phone: 207-883-4478	E-mail: Daveg@norrisinc.com
Installing contractor: Seabee Electric, Inc.	Certificate of Fitness No: 1008
Contractor phone: 207-883-5448 & Carlo Carcol	E-mail: georgeb@maine.rr.com
This is a new application: YES NO New	AES Master Box: YES NO NO hude Master Box approval form
Amendment to an existing permit: YES NO Perr	nit no:
The following documents shall be provided with this application:	
Floor plans Scope of Work	COST OF WORK: \$\\\ 18,300.00
Wiring diagram 11 ½ x 17s	PERMIT FEE: \$203.00 2/00
Annunciator details pdf copy (may be e-mailed)	(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)
Input/ Output Matrix Designer qualifications	RECEIVED
Equipment data sheets Battery/ voltage drop calcs	
Electrical Permit Pulled (check alarm/com)	DEC 2 2 2010
Master box approval only: YES NO (If yes check <i>New AES Master Box</i> above)	Dept. of Building Inspections City of Portland Maine
The <u>designer</u> shall be the responsible party for this application. D	
www.portlandmaine.gov/fire for every submittal. Submit all plans in e	
the Building Inspections Department, 389 Congress Street, Room Prior to acceptance of any fire alarm system, a complete commissioning	
fire system contractors and the Fire Department, and proper document	
All installation(s) must comply with the City of Portland Technical Sta	
Life and Property, available at www.portlandmaine.gov/fire.	
Applicant signature: Wya Ruh	Date: 12/22/10

27 North Part - Zano

1. This property shall remain as offices. Any change of use shall require a separate permit application for review and approval.



Job Name:

PO Box 2551 2257 West Broadway South Portland, ME 04106

fax 207.879.0540

www.norrisinc.com

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:			
NFPA requ	uires this in	iformatic	
for proj	per docum	entation	•
*The contractor MU	IST provide all of the	e information wit	th an
asterisk below b	efore ANY equipme	nt can be release	d.
If building owner contact is	unknown provide contact r	name/tel. of GC and cl	neck box
Electrical Contractor Contact I	Vame:		
Estimated Date Equip. Needed	l: *Estimated Fin	als Date:	
*Building Owner:			
*Job Site Address:			
*City:	Chahai	Zip:	
	State:		
*Contact Name:	Chec	k here if GC	
*Phone #:	Fax #:		
			I



PO Box 2551 2257 West Broadway South Portland, ME 04106

1.800.370.3473 fax 207.879.0540

www.norrlsinc.com

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

NORMANO



THIS COPY IS FOR YOUR ELECTRICIAN ON THE JOB-SITE

PLEASE BE SURE THIS COPY IS FORWARDED

- 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, ME 04106

1.800.370.3473 fax 207.879.0540

www.norrisinc.con

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 warrantics.

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.

PO Box 2551
2257 West Broadway
South Portland, ME 04106

1.800.370.3473

www.norrisinc.com

SUBMITTAL PACKAGE

Project:

Martin's Point, Northport

System:

Fire Alarm System

Submitted By:

Norris Inc.

2257 West Broadway

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

Project Manager:

Zach Davis

Electrical Contractor:

Seabee Electric

84 Pleasant Hill Road

Scarborough, ME. 04074

Date:

November 30, 2010

South Portland, ME 04106

1.800.370.3473 tax 207.879.0540

www.norrisinc.com

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 --

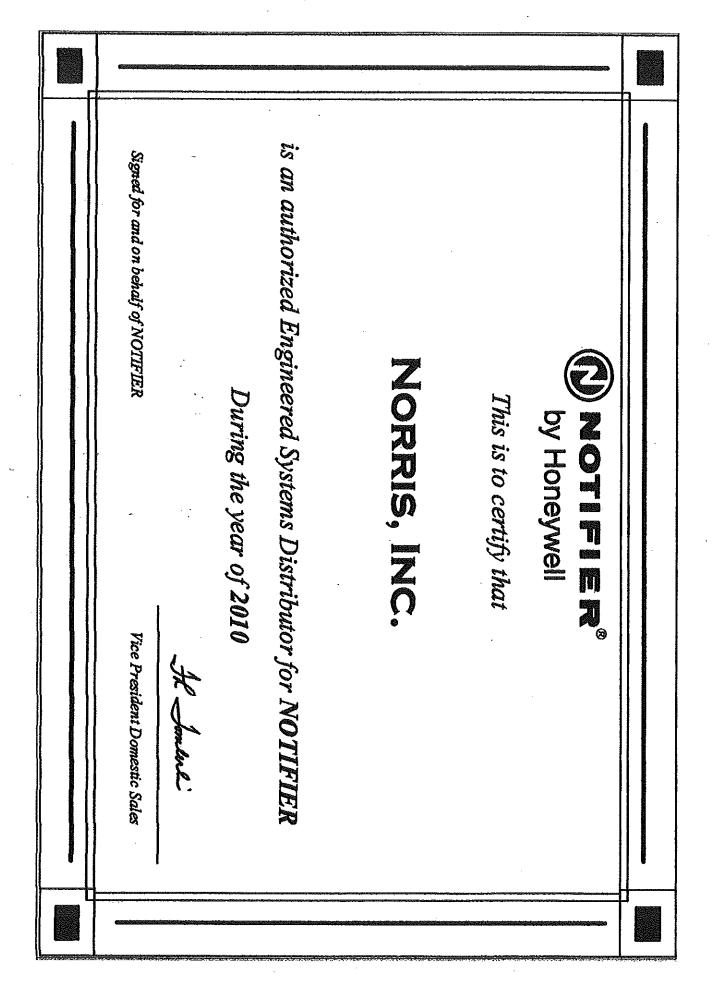
Mission Statement

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.



This

Certificate of Fitness

for

Fire Alarm Installation and Servicing Company

is awarded to



Norris Incorporated
PO Box 2551 – 2257 West Broadway
South Portland, ME 04106
(207)883-3473

(207)883-3473 CF # 1008 FRE STATE

Authority Having Jurisdiction

12/31/2010

Expiration Date

THIS CERTIFICATE IS NOT AN ENDORSEMENT OF THIS COMPANY BY THE AUTHORITY HAVING JURISDICTION.

TERMS AND CONDITIONS OF THIS CERTIFICATE OF FITNESS SHALL BE AS FOLLOWS:

THIS CERTIFICATE REMAINS THE PROPERTY OF THE PORTLAND FIRE DEPARTMENT AND SHALL BE RETURNED UPON DEMAND;

THIS CERTIFICATE OF FITNESS IS NON-TRANSFERABLE;

THIS CERTIFICATE OF FITNESS SHALL REMAIN IN EFFECT IN SO FAR AS THE BEARER OF SAID INSTRUMENT SHALL COMPLY WITH RULES AND REGULATIONS ESTABLISHED BY THE AUTHORITY HAVING JURISDICTION.

FAILURE TO COMPLY WITH ALL RULES AND REGULATIONS OF THE AUTHORITY HAVING JURISDICTION WILL RESULT IN THE FOLLOWING:

FIRST OFFENCE: PLAN OF ACTION TO ADDRESS DEFICIENCIES

SECOND OFFENCE: PROBATION OF SERVICE COMPANY

THIRD OFFENCE: TERMINATION OF CERTIFICATE OF FITNESS

This is to Certify that

Norris, Inc.

Has been duly elected to membership in this organization through May 31, 1999

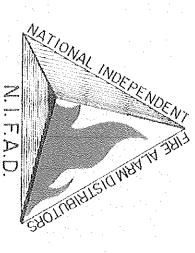
fire protective signaling and automatic detection systems are properly designed, installed and maintained and pledged to improve LIFE SAFETY IN AMERICA by striving to ensure

CHAIRMAN OF THE BOKRD

SECHETARY

AUTOMATIC TITE ALATE ASSOCIATION, INC.

a non-profit organization



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Ohn is a destination

Morris Inc.

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Member in Good Standing

and is entitled to all rights and prinileges of such membership

Mecretury

President



COLOCOST CLON STIN STONE COLOCATION & Systems Professionals

is a member in good standing entitled to all rights & privileges of membership and subject to all conditions & objectives as defined in the association bylaws.

Norris Inc

And Shirt

Merlin J. Guilbeau Executive Director

Marie D. Coller

Michael A. Miller President

ATOMA SYSTEMS CONTRACTORS ASSOCIATIO

This is to certify that

Norris Inc

is an official member of the

National Systems Contractors Association on this the

First of December

Charle R. Wildon

Andrew M. Musci President

Moderno M. Wheer

Churk Wilson Executive Director



Underwriters Laboratories Inc. ®

Northbrook, IL. San Jose, CA Melville, NY

A not-for-profit organization dedicated to public safety and committed to quality service

Applicant ID No: 762075-001

Service Center No 0 Expires:

31-MAR-2011

CERTIFICATE OF COMPLIANCE

THIS IS TO CERTIFY that the Alarm Service Company Indicated below is included by Underwriters Laboratories Inc. (UL) in its Product Directories as eligible to use the UL Listing Mark in connection with Certificated Alarm Systems. The only evidence of compliance with UL's requirements is the issuance of a UL Certificate for the Alarm System and the Certificate is current under UL's Certificate Verification Service. This Certificate does not apply in any way to the communication channel between the protected property and any facility that monitors signals from the protected property unless the use of a UL listed or Classified Alarm Transport Company is specified on the Certificate.

Listed Service From: STOWE, VT

Alarm Service Company: (762075-001)

HOME SECURITY & MANAGEMENT CO INC 57 CENTRAL DR PO BOX 695 **STOWE VT 05672**

Service Center: (762075-001)

HOME SECURITY & MANAGEMENT CO INC **57 CENTRAL DR** PO BOX 695 **STOWE VT 05672**

The Alarm Service Company is Listed in the following Certificate Service Categories:

CCN_ FIR VOINO Listing Category

S6427 - 1 UUFX [Signal and Fire Alarm Equipment and Services] (Protective Signaling Services) Central Station

THIS CERTIFICATE EXPIRES ON 31-MAR-2011 ***

LOOK FOR THE UE ALARM SYSTEM CERTIFICATE

Engineering Manager

08-MAR-2010

5 2008 UL Form CS-CC

VATIONAL INSTITUTE FOR CERTIFICATION N ENGINEERING TECHNOLOGIES®

HEREBY CERTIFIES THAT

David S. Gagnon

HAS ATTAINED THE GRADE OF

LEVEL IV

IN FIRE PROTECTION ENGINEERING TECHNOLOGY FIRE ALARM SYSTEMS

AND RECOGNIZES THAT THROUGH EDUCATION, EXPERIENCE, AND KNOWLEDGE THIS PERSON HAS MET THE STANDARDS SET FORTH BY THIS INSTITUTE

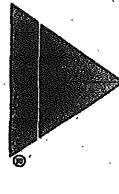
Certification Valid through April 1, 2011

CERTIFICATION NUMBER 88203

Seonel Law

CHAIRMAN OF THE BOARD OF GOVERNORS, NICET

SPONSORED BY THE NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS



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

308654SP Equipment List

SEABEE ELECTRIC 84 PLEASENT HILL RD SCARBOROUGH, ME 04074

SEABEE 207-883-5448

Fax:883-1660

Martin's Point, Northport

Description

NOTIFIER-NFW2-100, Addressable fire alarm control panel. Black ADI-IM-12180, 12 VOLT,18 AH BATTERY ADI-MO-804R2, MOD TO MOD 8C 2'RADIONICS CORD ADI-MO-RJ31X, SFS MT 8C RJ31X UL (917UL) NOTIFIER-NOT-BG12LX, Addressable Pull Station NOTIFIER-NP-100, Intelligent Addressable Photo detector, with base. NOTIFIER-NH-100, Intelligent Addressable Thermal detector w/ base. NOTIFIER-NMM-100P, Addressable Mini Module (sprinkler) NOTIFIER-NC-100R, Addressable Relay Module (elevator) NOTIFIER-FCPS-24S8, 8.0 amps, 120 VAC remote charger power supply ADI-IM-1270, 12V 7AMP BATTERY NOTIFIER-HSR, Horn Strobe, Wall, Red NOTIFIER-STR, Strobe, Wall, Red NOTIFIER-RSSWP-2475W-FR, Strobe, WP, Red NOTIFIER-WPSBB-R, BACKBOX, WP, RSSWP SPAAGEELE-SSU00685, Fire Alarm Records Cabinet SPAAGEELE-IE0091, Notifier Lock

FireWarden-100-2(E) Rev 3

Intelligent Addressable FACP with Built-In Communciator



Addressable Fire Alarm Control Panel

General

The Notifier FireWarden-100-2 Rev 3 (NFW2-100 Rev 3) with Version 5.0 firmware is a combination FACP (Fire Alarm Control Panel) and DACT (Digital Alarm Communicator/Transmitter) all on one circuit board. This compact intelligent addressable control panel has an extensive fist of powerful features.

The SLC (Signaling Line Circuit) of the FireWarden-100-2 Rev 3 operates using a Rapid Group Polling communication protocol technology that polls multiple devices simultaneously for a quicker device response time. This patented technology allows a fully-loaded panel with up to 198 devices to report an incident and activate the notification circuits in under 10 seconds. With this improved polling, devices can be wired on standard twisted, unshielded wire up to a distance of 10,000 feet.

The FireWarden-100-2 Rev 3's quick-remove chassis protects the electronics during construction. The backbox can be installed allowing field wiring to be pulled. When construction is completed, the electronics can be quickly installed with just two bolts.

New features for Rev 3 with Version 5.0 firmware include removable terminal blocks, improved transient protection, additional secondary ANN-BUS, and increased power for the resettable and remote sync outputs.

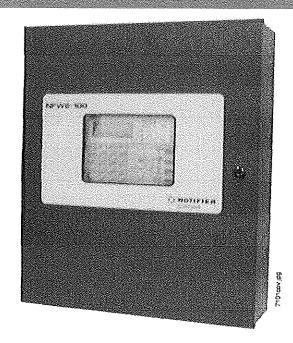
Available accessories include ANN-BUS devices as well as ACS LED, graphic and LCD annunciators, and reverse polarity/city box transmitter.

The integral DACT transmits system status (alarms, supervisories, 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® XP or greater, a compatible modem, and PS-Tools, the Upload/ Download software kit, may serve as a Service Terminal. This allows download of the entire program or upload of the entire program, history file, walktest data, current status and system voltages. The panel can also be programmed through the FACP's keypad or via a standard PS-2 computer keyboard, which can be plugged directly into the printed circuit board. This permits easy typing of address labels and other programming information.

Version 5.0 firmware supports the following: Primary and Secondary ANN-bus devices, NP-A100, USB port, NAC circuit diagnostics, a new report has been added to the walk-test that lists untested devices, new device types added: audio telephone type code for NFV-25/50ZST, Photo Supervisory and auto-resettable Drill (non-latching).

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 dedicated business 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-100-2" is used in this document to refer to both the FireWarden-100-2 and the FireWarden-100-2E FACPs (Fire Alarm Control Panels). Likewise, "NFW2-100" refers to NFW2-100E as well.



Features

- · Listed to UL standard 864, 9th edition.
- On-board DACT.
- Remote site or local USB port upload/download, using PS-Tools.
- Four (4) Style Y (Class B) NAC circuits, which can be converted to four (4) Style Z (Class A) circuits with optional ZNAC-92 converter module. (Up to 6.0 amps total NAC power when using optional XRM-24B.)
- Selectable strobe synchronization for System Sensor, Wheelock, and Gentex devices.
- Remote Acknowledge, Silence, Reset and Drill via addressable monitor modules or FDU-80, N-ANN-80 or Legacy ACS Annunciators.
- ANN-BUS for connection to following optional modules (cannot be used if ACS annunciators are used):
 - N-ANN-80(-W) Remote LCD Annunciator
 - N-ANN-I/O LED Driver
 - N-ANN-S/PG Printer Module
 - N-ANN-RLY Relay Module
 - N-ANN-LED Annunciator Module
 - N-ANN-RLED Annunciator Module alarms only
 - ROME Relay Option Module Enclosure
- ACS & Terminal-mode Annunciators:
 - ACS Annunciators: Up to 32 Legacy ACM Series annunciators (ACM-16AT or ACM-32 series). Cannot be used if ANN-BUS devices are used.
 - Terminal-mode Annunciators: Up to 32 Legacy FDU-80 annunciators.
- EIA-232 printer/PC interface (variable baud rate) on main circuit board, for use with optional UL-listed printer PRN-6.

- Integral 80-character LCD display with backlighting.
- Real-time clock/calendar with automatic daylight savings control.
- Detector sensitivity test capability (NFPA 72 compliant).
- History file with 1,000-event capacity.
- Maintenance alert warns when smoke detector dust accumulation is excessive.
- Automatic device type-code verification.
- One person audible or silent walk test with walk-test log and printout.
- Point trouble identification.
- · Waterflow (nonsilenceable) selection per monitor point.
- System alarm verification selection per detector point.
- PAS (Positive Alarm Sequence) and presignal delay per point (NFPA 72 compliant).

NOTE: Only detectors may participate in PAS.

SLC LOOP:

- · SLC can be configured for NFPA Style 4, 6, or 7 operation.
- SLC supports up to 198 addressable devices per loop (99 detectors and 99 monitor, control, or relay modules).
- SLC loop maximum length 10,000 ft. (3,000 m.).
 See installation manual for wire tables.

NOTIFICATION APPLIANCE CIRCUITS (NACS):

- Four onboard NACs with additional NAC capability using output control modules (NC-100). The four Class B NACs can be converted to four Class A NACs with optional ZNAC-92 converter module.
- Silence Inhibit and Auto Silence 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 amps maximum per each NAC circuit.

NOTE: Maximum 24VDC system power output is shared among all NAC circuits and 24VDC special-application auxiliary power outputs. Total available output is 3.0 amps. Using the optional XRM-24B transformer increases 24VDC output to 6.0 amps.

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.
- · Three Form-C relay outputs (two programmable).
- 99 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 a Windows®-based software package (NFW2-100 requires PS-Tools Programming software, available on www.magni-fire.com). Upload/download system programming locally to the NFW2-100 Rev 3 in less than one minute.
- USB upload/download programming with standard Male-A to Male-B cable.

User Interface

LED INDICATORS

- · AC Power (green)
- · Fire Alarm (red)

- · Supervisory (yellow)
- Alarm Silenced (yellow)
- · System Trouble (yellow)
- · Maintenance/Presignal (yellow)
- · Disabled (yellow)
- · Battery Fault (yellow)
- · Ground Fault (yellow)

KEYPAD CONTROLS

- Acknowledge/Step
- Alarm Silence
- Dril
- System Reset (lamp test)
- . 16-key alpha-numeric pad (similar to telephone keypad)
- · 4 cursor keys
- Enter

Product Line Information

NFW2-100: FireWarden-100-2 Rev 3 198-point addressable Fire Alarm Control Panel, one SLC loop. Includes 80-character LCD display, single printed circuit board mounted on chassis, and cabinet. 120 VAC operation.

NFW2-100R: Same as NFW2-100, except in a red backbox.

NFW2-100E: Same as NFW2-100, except with 240 VAC operation.

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

ZNAC-92: Optional converter module which converts four (4) Style Y (Class B) NAC circuits to four (4) Style Z (Class A) circuits.

VFWARDEN-CD: Contains PS-Tools Programming software for Windows®-based PC computer (cable not included), available on www.magni-fire.com.

DP-9692B: Optional dress panel for FireWarden-100-2 Rev 3.

TR-CE-B: Optional trim Ring for semi-flush mounting.

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

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

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.

XRM-24B(E): Optional transformer. Increases system power output to 6.0 amps. Use XRM-24BE with FireWarden-100-2E Rev 3.

PRT/PK-CABLE: Cable printer/personal computer interface cable; required for printer or for local upload/download programming and updating panel firmware.

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

IPDACT-2/2UD, IPDACT 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.

COMPATIBLE ANNUNCIATORS

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

N-ANN-LED: Annunciator Module provides three LEDs for each zone: Alarm, Trouble and Supervisory. Ships with red or black 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, which can be mounted inside the cabinet, provides 10 programmable Form-C relays. (See DN-7107.)

ROME-B: Relay Option Module Enclosure (order ROME-B for black or ROME for red). Provides one N-ANN-RLY Relay Module already installed. The ROME Series provides mounting space for one additional Relay Module or one addressable Multi-module. (See Installation Sheet PN 53530.)

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

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

ACM-8R: Relay module provides 8 Form-C 5.0 amp relays.

ACM Annunciator Series: LED-type fire annunciators capable of providing up to 99 software zones of annunciation. Available in increments of 16 or 32 points to meet a variety of applications.

LDM Graphic Series: Lamp Driver Module series for use with custom graphic annunciators.

FDU-80 (Liquid Crystal Display) point annunciator: 80-character, backlit LCD-type fire annunciators capable of displaying English-language text.

NOTE: For more information on Compatible Annunciators for use with the FireWarden-100-2 Rev 3, see the following data sheets (document numbers) ACM-8R (DN-3558), ACS/ACM Series (DN-0524), LDM Series (DN-0551), FDU-80 (DN-6820).

COMPATIBLE 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: Addressable remote test capable detector for use with DNR(W) duct smoke detector housings.

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

NH-100R: Fast-response, low-profile heat detector with rateof-rise option. NH-100H: Fixed high-temperature detector that activates at 190F/88C.

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

DNR: Innovair Flex low-flow non-relay duct-detector housing. Order NP-100R separately.

DNRW: innovair Flex 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-100: Similar to NMM-100, but may monitor up to 20 conventional two-wire detectors. Requires resettable 24 VDC power. Consult factory for compatible smoke detectors.

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. This module isolates the SLC loop from short circuit conditions (required for Style 6 or 7 operation).

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

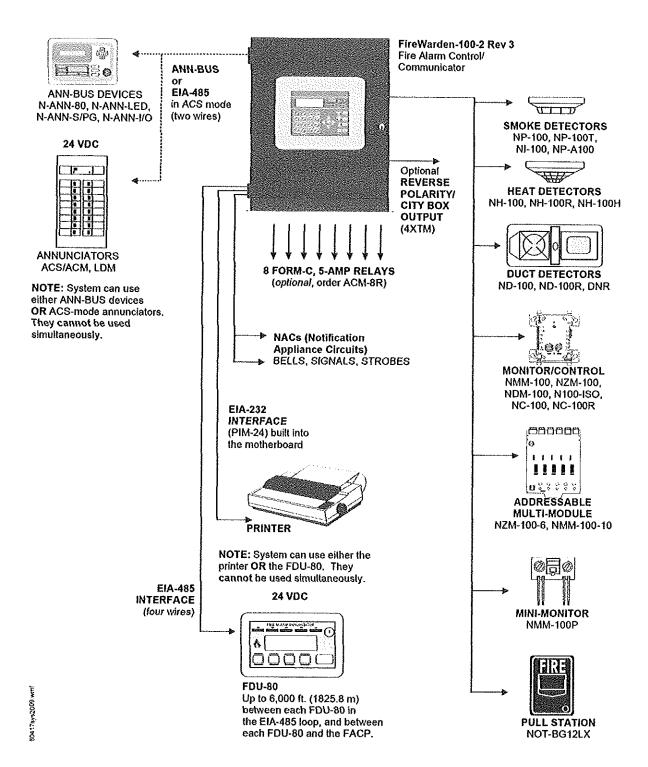
NMM-100-10: Ten-input monitor module. Mount one or two modules in a BB-XP cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-25.

NZM-100-6: Six-zone interface module for compatible conventional two-wire detectors. 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.

NOTE: For more information on Compatible Addressable Devices for use with the FireWarden-100-2 Rev 3, see the following data sheefs (document numbers): N100-ISO (DN-6994), NP-100 series (DN-6995), NI-100 (DN-6996), NH-100 series (DN-6997), ND-100 series (DN-7006), NP-A100 (DN-6998), NMM-100/NMM-100P/NDM-100/NZM-100 (DN-6999), NC-100/NC-100R (DN-7000), NOT-BG12LX (DN-7001), NMM-100-10 (DN-6990), and NZM-100-6 (DN-60150).

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. Wire size should be no smaller than 18 AWG (0.78 mm²) and no larger than 12 AWG (3.1 mm²). The wire size depends on the length of the SLC circuit. Refer to the panel manual for wiring details.





SYSTEM SPECIFICATIONS

System Capacity

Addressable device capacity	٠	Intelligent Signalling Line Circuits	1
ACS Annunciators	•	Addressable device capacity	198
	•	Programmable software zones	99
ANN-bus devices	,	ACS Annunciators	32
	•	ANN-bus devices	16

Electrical Specifications

AC Power: FireWarden-100-2 Rev 3: 120 VAC, 60 Hz, 3.0 amps. FireWarden-100-2 Rev 3(E): 240 VAC, 50 Hz, 1.5 amps. Wire size: minimum 14 AWG (2.00 mm²) with 600 V insulation.

Battery: Two 12 V 18AH lead-acid batteries.

Battery charger capacity: 7 - 18 AH. FireWarden-100-2 Rev 3 cabinet holds maximum of two 18 AH batteries.

Communication Loop: Supervised and power-limited.

Notification Appliance Circuits: Each terminal block provides connections for two Style Y (Class B) for a total of four Style Y (Class B) or with an optional ZNAC-92 module converts to four Style Z (Class A) NACs. Maximum signaling current per circuit: 2.5 amps. End-of-Line Resistor: 4.7K ohm, 1/2 watt (P/N 71252 UL listed) for Style Y (Class B) NAC. Refer to panel documentation and Notifier Device Compatibility Document for listed compatible devices.

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

Special Application Power (24 VDC Nominal): Jumper selectable (JP4) for conversion to resettable power output. Up to 1.0 amp total DC current available from each output. Power-limited.

Four-Wire Resettable Special Application Smoke Detector Power (24 VDC nominal): Up to 1.0 amp for powering four-wire smoke detectors. Power-limited. Refer to the Notifier Device Compatibility Document for listed compatible devices.

Remote Sync Output: Remote power supply synchronization output. Nominal special application power: 24 VDC. Maximum current: 300 mA. End-of-Line Resistor: 4.7K ohm. Output linked to NAC 1 control. Supervised and power-limited.

Telephone Interface: Unless used with Teldat VISORALARM, requires dedicated business telephone number with a minimum of 5 volts DC (off-hook voltage). Obtain dedicated phone line directly from your local phone company. Do not use shared phone lines or PBX (digital) type phone line extensions.

Cabinet Specifications

Door: 19.26" (48.92 cm.) high x 16.82" (42.73 cm.) wide x 0.12" (.30 cm.) deep. Backbox: 19.00" (48.26 cm.) high x 16.65" (42.29 cm.) wide x 5.20" (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 $32^{\circ}\text{C} \pm 2^{\circ}\text{C}$ ($90^{\circ}\text{F} \pm 3^{\circ}\text{F}$). 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 $15 - 27^{\circ}\text{C}/60 - 80^{\circ}\text{F}$.

NFPA Standards

The FireWarden-100-2 Rev 3 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, Waterflow and Sprinkler Supervisory) (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, Waterflow and Sprinkler Supervisory).
- CENTRAL STATION (Automatic, Manual, Waterflow and Sprinkler Supervisory).
- OT, PSDN (Other Technologies, Packet-switched Data Network)

Agency Listings and Approvals

The listings and approvals below apply to the basic FireWarden-100-2 Rev 3 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 Listed: \$635

FM approved

• CSFM: 7165-0028:235

For ULC-listed version, see DN-60600.

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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.



For more information, contact Notifier. Phone: (203) 484-7161, FAX: (203) 484-7118. www.notifier.com

BAT Series Batteries

Sealed Lead-Acid or Gell Cell



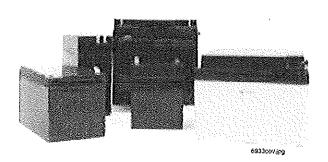
Rower Supplies

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.

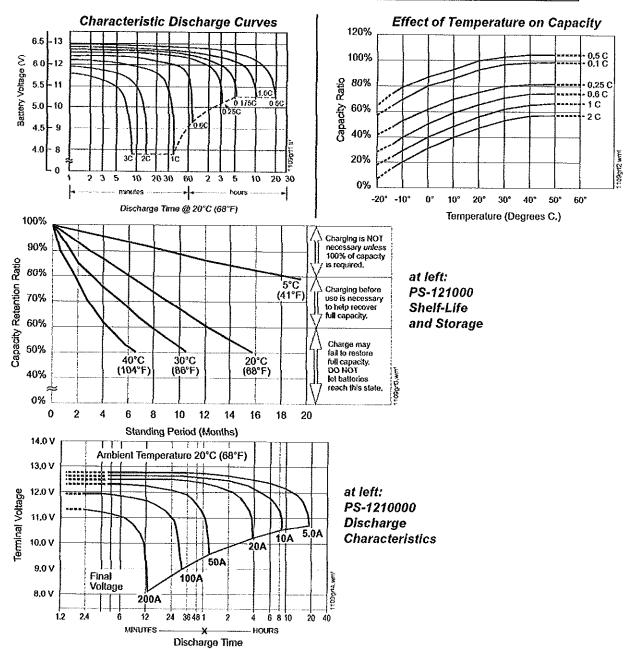
UL Recognized Components: files MH19884 (B & B Battery), MH20567 (UPG, previously Joll), MH20845 (Power-Sonic).

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 (Joll) 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					DIMEN	SIONS					
MODEL	Nominal Voltage V	Capacity @ 20 hr.	Capacity Current	Width		Depth		Height		Height over terminal		We	Weight	
		Tute Airi	Tạte 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	



B&BBATTERY

		l No:	ninal Ca	nacity (AHI	Wa	Weight .		Terr	ninal					Dimer	sions			
Model	٧			.puony (,,	110	rgiir	Star	dard	Opti	onal		L	V	٧	1	1	Т	H
		20 hr	10 hr	5 hr	1 hr	kg	lbs	Туре	Pos.	Туре	Pos.	mm	In	mm	In	mm	İn	mm	in
BP5-12	12	5.00	4.75	4.25	3.00		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	Ti		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	T2.11	9	175	6.89	166	6.54	125	4.92	125	4.92

Charging Procedure

Application	Charging method	Charging Voltage at	Temperature compensation	Maximum charging	Charging to 20°C		_	
Application		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)	

		Discharge Time: for Model BP5-12													
Final Voltage	6 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr						
			Battery	Output Po	wer (W):	for Mode	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

			Di	scharge Ti	me: for M	lodel BP7	-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):	for Mode	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 Po	ver (W):	for Model	BP12-12	I							
10.80 V	433.9	319.4	258.0	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						

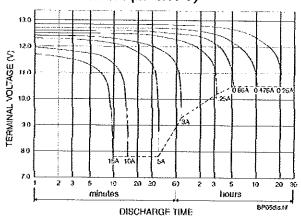
Constant Power Discharge Characteristics at 25°C/77°F for BP12-12

	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					
ĺ			Battery	Output Po	wer (W):	for Model	BP28-12		·					
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					

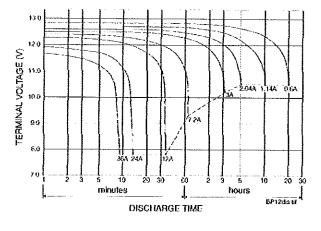
Constant Power Discharge Characteristics at 25°C/77°F for BP26-12

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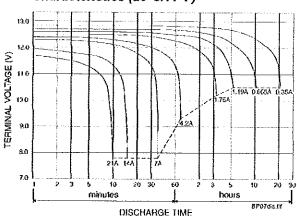
BP5-12 Battery Discharge Characteristics (25°C/77°F)



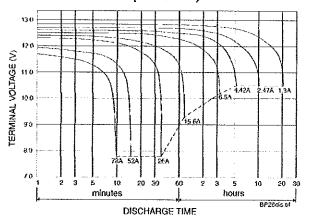
BP12-12 Battery Discharge Characteristics (25°C/77°F)



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



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



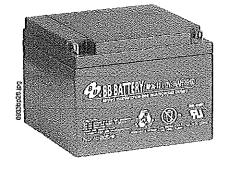
BP05-12



BP12-12



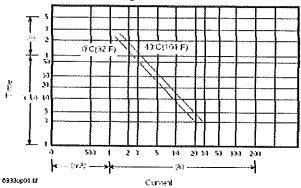
BP26-12



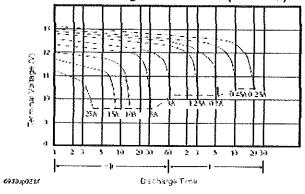
UB1250 has the same specifications as previous Jolt SA1250; SA1272 to be replaced with UB1270 (specs/diagrams pending).

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 V ± 0.3 V.

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

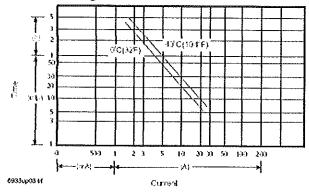
After 3 months: ~ 90%.

After 6 months: ~ 82%.

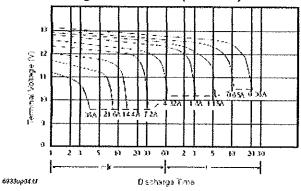
After 12 months: ~ 70%.

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 V ± 0.3 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%.

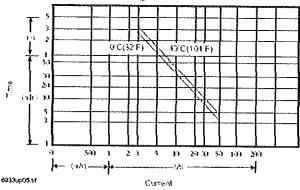
After 6 months: ~ 82%.

After 12 months; ~ 70%.

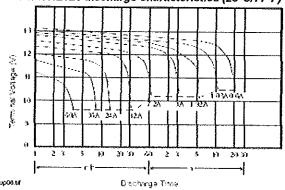
Same specifications as previous Jolt models; packaging and part numbers are the only changes.

UB12120 (was SA12120) 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 ± 0.15 V.

Cycle use: 14.7 V ± 0.3 V.

Maximum discharge current: 120 A (5 sec).

Maximum charging current: 3.6 A.

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

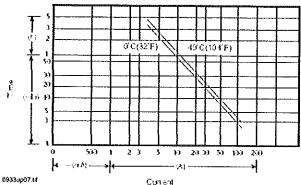
After 3 months: ~ 90%.

After 6 months: ~ 82%.

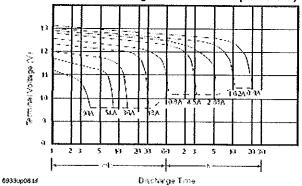
After 12 months; ~ 70%.

UB12180 (was \$A12180) 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 V ± 0.3 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%.

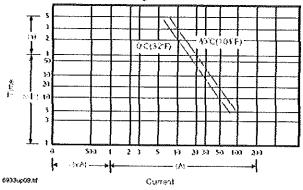
After 6 months: ~ 82%.

After 12 months: ~ 70%.

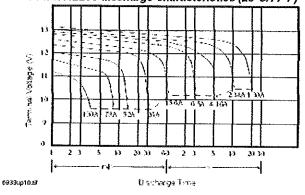
Same specifications as previous Jolt models; packaging and part numbers are the only changes.

UB12260 (was \$A12260) 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 ± 0.15 V.

Cycle use: 14.7 V ± 0.3 V.

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

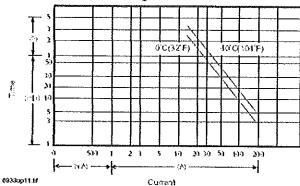
After 3 months: ~ 90%.

After 6 months: ~ 82%.

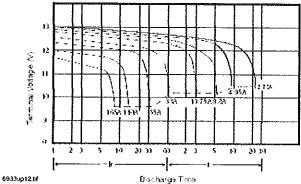
After 12 months: ~ 70%.

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 V \pm 0.15 V.

Cycle use: 14.7 V ± 0.3 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%.

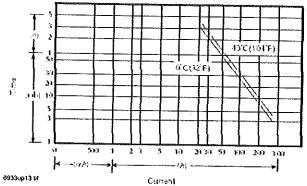
After 6 months: ~ 82%.

After 12 months: ~ 70%.

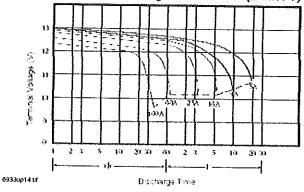
Same specifications as previous Jolt models; packaging and part numbers are the only changes.

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°); tength 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 ± 0.15 V.

Cycle use: 14.7 V ± 0.3 V.

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

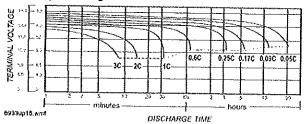
After 3 months: ~ 90%.

After 6 months: ~ 82%.

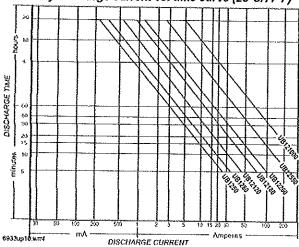
After 12 months: ~ 70%.

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

Application	Charging method	Charging	Temperature compensation	Maximum charging		ime 0.1 CA, C (h)	
	Charging method	voltage at 25°C (V/cell)	coefficient of charging voltage (mV/°C/cell)	current (CA)	100% discharge	50% discharge	Temp (°C)
power source	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.

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For more information, contact Notifier. Phone: (203) 484-7161, FAX: (203) 484-7118. www.notifier.com

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 tatch 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-VO: 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. IV
- CSFM: 7150-0028:0199
- FDNY:
- FM Approved

Patented: U.S. Patent No. D428,351; 6,380,846; 6,314,772; 6,632,108.

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Made in the U.S. A.

For more information, contact Notifier. Phone: (203) 484-7161, FAX: (203) 484-7118.

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 tocate 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:

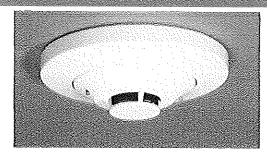
- Sealed against back pressure.
- Direct surface mounting or electrical box mounting.
- Mounts to: single-gang box, 3.5" (8.89 cm) or 4.0" (10.16 cm) octagonal box, or 4.0" (10.16 cm) square electrical box (using a plaster ring included).

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.

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NH-100 Series

Intelligent Addressable Thermal Detectors for FireWarden Series



Addiresable

General

The NOTIFIER NH-100 Series thermal detectors are addressable sensors that use a state-of-the-art thermistor sensing circuit for fast response. These sensors provide open-area protection and are intended for use with the FireWarden Series (FireWarden-100-2 and FireWarden-50) addressable Fire Alarm Control Panels (FACPs).

The NH-100 and NH-100R sensors provide fixed temperature alarm detection at 135°F (57°C). The NH-100R sensor also responds to rate-of-rise conditions of greater than 15°F (8.3°C) per minute. The NH-100H is a fixed high-temperature detector that activates at 190°F (88°C). These thermal detectors provide addressable property protection in a variety of applications

Two LEDs on each sensor light to provide a local, visible sensor indication. Remote LED annunciator capability is available as an optional accessory (RA400Z).

Features

SLC loop:

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

Addressing:

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

Architecture:

- Sleek, low-profile, stylish design.
- · State-of-the-art thermistor technology for fast response.
- Integral communications and built-in device-type identification.
- Built-in tamper resistant feature.
- Built-in functional test switch activated by external magnet.

Operation:

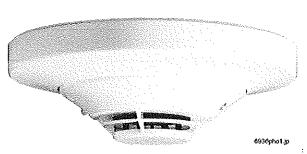
- Factory preset at 135°F (57°C) for the NH-100 and NH-100R; 190°F (88°C) for the NH-100H.
- Rate-of-rise triggers at 15°F (8.3°C) per minute for the NH-100R.
- 360°-field viewing angle of the visual alarm indicators (two bicolor LEDs). LEDs blink green in Normal condition and turn on steady red in Alarm.
- · Visible LEDs "blink" every time the unit is addressed.

Mechanicals:

- Sealed against back pressure.
- · SEMS screws for wiring of the separate base.
- Designed for direct-surface or electrical-box mounting.
- Plugs into separate base for ease of installation and maintenance.
- Separate base allows interchange of photoelectric, ionization and thermal sensors.

Other system features:

- · Remote test feature from the panel.
- Walk test with address display.



NH-100 with B710LP base

- · Low standby current.
- 94-5V plastic flammability rating.

Options:

- Remote LED output connection to optional RA400Z remote LED annunciator.
- Recessed (RMK400) or surface (SMK400E) base mounting kits.

Installation

NH-100 Series plug-in intelligent thermal detectors use a detachable base to simplify installation, service and maintenance. Installation instructions are shipped with each detector.

Mount base (all base types) on box that is at least 1.5" (3.81 cm) deep. Suitable boxes include:

- 4.0* (10.16 cm) square box.
- 3.5" (8.89 cm) or 4.0" (10.16 cm) octagonal box.
- · Single-gang box (except relay or isolator base).

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 only.

Applications

Use thermal detectors for protection of property.

Construction

These detectors are constructed of off-white Bayblend®. The NH-100 Series plug-in intelligent thermal detectors are designed to commercial standards and offer an attractive appearance.

Operation

Each NH-100 Series detector uses one of 99 (FireWarden-100-2) or 50 (FireWarden-50) possible addresses on a control panel SLC loop. It responds to regular polls from the control panel and reports its type and the status. If it receives a test command from the panel (or a local magnet test), it stimulates its efectronics and reports an alarm. It blinks its LEDs when polled and turns the LEDs on when commanded by the panel.

The NH-100 Series offers features and performance that represent the latest in thermal detector technology.

Spefications

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

Height: 2.1" (5.33 cm). Weight: 4.8 oz. (137 g). Installation temperature:

• NH-100, NH-100R: -4°F to 100°F (-20°C to 38°C).

NH-100H: -4°F to 150°F (-20°C to 66°C).

Humidity range: 10% to 93% relative humidity (noncondensing).

Voltage range: 15 to 32 VDC peak.

Standby current: 300 µA @ 24 VDC (one communication every five seconds with LED blink enabled).

LED current: 6.5 mA @ 24 VDC.

Mounting: B710LP flanged base, included.

Fixed-temperature setpoint: 135°F (57°C) for the NH-100 and NH-100R; 190°F (88°C) for the NH-100H.

Rate-of-rise detection: responds to greater than 15°F (8.3°C) per minute.

Altitude rating: 10,000 feet.

Listings and Approvals

Listings and approvals below apply to the NH-100 Series 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 S747.
- CSFM approved: file 7270-0028:234.
- MEA approved: file 387-02-E Vol. II.
- FM approved.

Product Line Information

NH-100: Intelligent thermal sensor; 135° F (57° C) B710LP base included.

NH-100R: Same as NH-100 with rate-of-rise feature; B710LP base included.

NH-100H: Intelligent fixed high-temperature thermal detector; 190° F (88° C) B710LP base included.

B710LP: Plug-in detector base (included). *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 *irelay* 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).

B224Bl: 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).

B501BH-2: Plug-in System Sensor standard sounder base. Dlameter: 6.0" (15.24 cm). Mounting: 4.0" (10.16 cm) square box with or without plaster ring. Mounting boxes have a minimum depth of 1.5" (3.81 cm).

B501BHT-2: Plug-in System Sensor *temporal tone* sounder base.

ACCESSORIES:

RA400Z: 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.

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Monitor Modules

NMM-100(A), NMM-100P(A), NZM-100(A), and NDM-100(A) for FireWarden Series Panels



Intelligent Addressable Devices

General

Four different monitor modules are available for Notifier's Fire-Warden Series intelligent control panels for a variety of applications. Monitor modules supervise a circuit of dry-contact input devices, such as conventional heat detectors and pull stations, or monitor and power a circuit of two-wire smoke detectors (NZM-100(A)).

NMM-100(A) is a standard-sized module (typically mounts to a 4° [10.16 cm] square box) that supervises either a Style D (Class A) or Style B (Class B) circuit of dry-contact input devices.

NMM-100P(A) is a miniature monitor module a mere 1.3" (3.302 cm) H x 2.75" (6.985 cm) W x 0.5" (1.270 cm) D that supervises a Style B (Class B) circuit of dry-contact input devices. Its compact design allows the NMM-100P(A) to be mounted in a single-gang box behind the device it monitors.

NZM-100(A) is a standard-sized module that monitors and supervises compatible two-wire, 24 volt, smoke detectors on a Style D (Class A) or Style B (Class B) circuit.

NDM-100(A) is a standard-sized dual monitor module that monitors and supervises two independent two-wire Style B (Class B) dry-contact initiating device circuits (IDCs) at two separate, consecutive addresses in intelligent, two-wire systems.

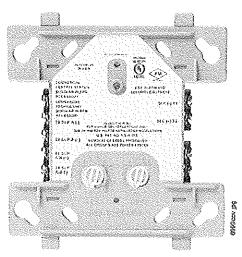
NMM-100(A) Monitor Module

- Built-in type identification automatically identifies this device as a monitor module to the control panel.
- Powered directly by two-wire SLC toop. No additional power required.
- High noise (EMF/RFI) immunity.
- · SEMS screws with clamping plates for ease of wiring.
- Direct Decade entry of address: 01 99 on FireWarden-100-2, 01 – 50 on FireWarden-50.
- LED flashes during normal operation and latches on steady to indicate alarm.

The NMM-100(A) Monitor Module is intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary switches. It provides either a two-wire or four-wire fault-tolerant Initiating Device Circuit (IDC) for normally-open-contact fire alarm and supervisory devices. The module has a panel-controlled LED indicator.

NMM-100(A) APPLICATIONS

Use to monitor a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally-open dry-contact alarm activation devices. May also be used to monitor normally-open supervisory devices with special supervisory indication at the control panel. Monitored circuit may be wired as an NFPA Style B (Class B) or Style D (Class A) Initiating Device Circuit. A 47K ohm End-of-Line Resistor (provided) terminates the Style B circuit. No resistor is required for supervision of the Style D circuit.



NMM-100(A) (Type H)

NMM-100(A) OPERATION

Each NMM-100(A) uses one of the available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/norma/short) of its initiating Device Circuit (IDC). A flashing LED indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to current limitations on the loop).

NMM-100(A) SPECIFICATIONS

Nominal operating voltage: 15 to 32 VDC.

Maximum current draw: 5.0 mA (LED on).

Average operating current: 350 µA (LED flashing), 1 communication every 5 seconds, 47k EOL.

Maximum IDC wiring resistance: 40 ohms.

EOL resistance: 47K ohms.

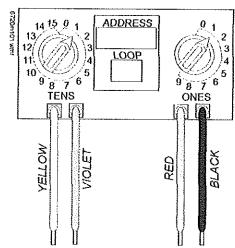
Temperature range: 32°F to 120°F (0°C to 49°C).

Humidity range: 10% to 93% noncondensing.

Dimensions: 4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep box.

NMM-100P(A) Mini Monitor Module

- Built-in type identification automatically identifies this device as a monitor module to the panel.
- Powered directly by two-wire SLC loop. No additional power required.
- High noise (EMF/RFI) immunity.
- Tinned, stripped leads for ease of wiring.
- Direct Decade entry of address: 01 99 on FireWarden-100-2, 01 – 50 on FireWarden-50.



The NMM-100P(A) Mini Monitor Module can be installed in a single-gang junction directly behind the monitored unit. Its small size and light weight allow it to be installed without rigid mounting. The NMM-100P(A) is intended for use in intelligent, two-wire systems where the individual address of each module is selected using rotary switches. It provides a two-wire initiating device circuit for normally-open-contact fire alarm and security devices. NMM-100P(A)

NMM-100P(A) APPLICATIONS

Use to monitor a single device or a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally-open dry-contact devices. May also be used to monitor normally-open supervisory devices with special supervisory indication at the control panel. Monitored circuit/device is wired as an NFPA Style B (Class B) Initiating Device Circuit. A 47K ohm End-of-Line Resistor (provided) terminates the circuit.

NMM-100P(A) OPERATION

Each NMM-100P(A) uses one of the available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC).

NMM-100P(A) SPECIFICATIONS

Nominal operating voltage: 15 to 32 VDC.

Average operating current: 350 μ A, 1 communication every 5 seconds, 47k EOL; 600 μ A Max. (Communicating, IDC Shorted).

Maximum IDC wiring resistance: 40 ohms.

Maximum IDC Voltage: 11 Volts.

Maximum IDC Current: 400 µA.

EOL resistance: 47K ohms.

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

Dimensions: 1.3" (3.302 cm) high x 2.75" (6.985 cm) wide x 0.65" (1.651 cm) deep.

Wire length: 6" (15.24 cm) minimum.

NZM-100(A) Interface Module

- · Supports compatible two-wire smoke detectors.
- Supervises IDC wiring and connection of external power source.
- · High noise (EMF/RFI) immunity.
- SEMS screws with clamping plates for ease of wiring.
- Direct Decade entry of address:, 01 99 on FireWarden-100-2, 01 – 50 on FireWarden-50.
- · LED flashes during normal operation.
- LED latches steady to indicate alarm on command from control panel.

The NZM-100(A) Interface Module is intended for use in intelligent, addressable systems, where the individual address of each module is selected using built-in rotary switches. This module allows intelligent panels to interface and monitor two-wire conventional smoke detectors. It transmits the status (normal, open, or alarm) of one full zone of conventional detectors back to the control panel. All two-wire detectors being monitored must be UL compatible with the module.

NZM-100(A) APPLICATIONS

Use the NZM-100(A) to monitor a zone of two-wire smoke detectors. The monitored circuit may be wired as an NFPA Style B (Class B) or Style D (Class A) Initiating Device Circuit. A 3.9 K ohm End-of-Line Resistor (provided) terminates the end of the Style B or D (class B or A) circuit (maximum IDC loop resistance is 25 ohms). Install ELR across terminals 8 and 9 for Style D application.

NZM-100(A) OPERATION

Each NZM-100(A) uses one of the available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC). A flashing LED indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to current limitations on the loop).

NZM-100(A) SPECIFICATIONS

Nominal operating voltage: 15 to 32 VDC. Maximum current draw: 5.1 mA (LED on). Maximum IDC wiring resistance: 25 ohms.

Average operating current: 300 µA, 1 communication and 1 LED flash every 5 seconds, 3.9k eol.

EOL resistance: 3.9K ohms.

External supply voltage (between Terminals T3 and T4): DC voltage: 24 volts power limited. Ripple voltage: 0.1 Vrms maximum. Current: 90 mA per module maximum.

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

Humidity range: 10% to 93% noncondensing.

Dimensions: 4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep box.

NDM-100(A) Dual Monitor Module

The NDM-100(A) Dual Monitor Module is intended for use in intelligent, two-wire systems. It provides two independent two-wire initiating device circuits (IDCs) at two separate, consecutive addresses. It is capable of monitoring normally open contact fire alarm and supervisory devices. The module has a single panel-controlled LED.

NOTE: The NDM-100(A) provides two Style B (Class B) IDC circuits ONLY. Style D (Class A) IDC circuits are NOT supported in any application.

NDM-100(A) SPECIFICATIONS

Normal operating voltage range: 15 to 32 VDC.

Maximum current draw: 6.4 mA (LED on).

Average operating current: 750 µA (LED flashing).

Maximum IDC wiring resistance: 1,500 ohms.

Maximum IDC Voltage: 11 Volts.
Maximum IDC Current: 240 µA
EOL resistance: 47K ohms.

Maximum SLC Wiring resistance: 40 Ohms.
Temperature range: 32° to 120°F (0° to 49°C).
Humidity range: 10% to 93% (non-condensing).

Dimensions: 4.5" (11.43 cm) high x 4" (10.16 cm) wide x

2.125" (5.398 cm) deep.

NDM-100(A) AUTOMATIC ADDRESSING

The NDM-100(A) automatically assigns itself to two addressable points, starting with the original address. For example, if the NDM-100(A) is set to address "26", then it will automatically assign itself to addresses "26" and "27".

NOTE: "Ones" addresses on the NDM-100(A) are 0, 2, 4, 6, or 8 only. Terminals 6 and 7 use the first address, and terminals 8 and 9 use the second address.



CAUTION:

Avoid duplicating addresses on the system.

Installation

NMM-100(A), NZM-100(A), and NDM-100(A) modules mount directly to a standard 4" (10.16 cm) square, 2.125" (5.398 cm) deep, electrical box. They may also be mounted to the SMB500 surface-mount box. Mounting hardware and installation instructions are provided with each module. All wiring must conform to applicable local codes, ordinances, and regulations. These modules are intended for power-limited wiring only.

The NMM-100P(A) module is intended to be wired and mounted without rigid connections inside a standard electrical box. All wiring must conform to applicable local codes, ordinances, and regulations.

Agency Listings and Approvals

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: S635
- ULC: S635
- FM Approved
- CSFM: 7300-0028:0230 (NMM-100, NMM-100P, NZM-100); 7300-0028:0237 (NDM-100)

 MEA: 72-01-E Vol. 2 (NMM-100, NMM-100P, NZM-100); 227-03-E Vol. 3 (NDM-100)

Product Line Information

NOTE: "A" suffix indicates ULC-listed model.

NMM-100(A): Monitor module.

NMM-100P(A): Monitor module, miniature.

NZM-100(A): Monitor module, two-wire detectors.

NDM-100(A): Monitor module, dual, two independent Class B circuits.

SMB500: Optional surface-mount backbox.

NOTE: See installation instructions and refer to the SLC Wiring Manual, PN 52304.

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NC-100R(A)

Relay Module for FireWarden Series Panels



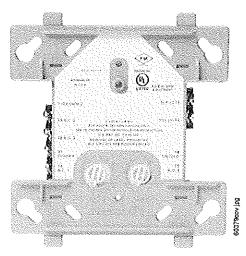
Addressable

General

The NC-100R(A) Addressable Relay Module provides NOTI-FIER's FireWarden Series intelligent control panels with two isolated sets of Form-C dry-contact outputs for activating a variety of auxiliary devices, such as fans, dampers, door holders, control equipment, etc. Addressability allows the dry contact to be activated, either manually or through panel programming, on a select basis.

Features

- Built-in type identification automatically identifies these devices to the control panel.
- Internal circuitry and relay powered directly by two-wire SLC loop.
- Integral LED "blinks" green each time a communication is received from the control panel and turns on in steady when activated.
- High noise immunity (EMF/RFI).
- · Wide viewing angle of LED.
- · SEMS screws with clamping plates for wiring ease.
- Direct Decade entry of address: 01 99 with the FireWarden-100-2(C) and 01 50 with the FireWarden-50(C).



NC-100R(A)

Applications

The NC-100R(A) may be programmed to operate dry contacts for door holders, Air Handling Unit shutdown, etc., and to reset four-wire smoke detector power.

Construction

- The face plate is made of off-white heat-resistant plastic.
- Controls include two rotary switches for direct-dial entry of address setting.
- The NC-100R(A) provides two Form-C dry contacts that switch together.

Operation

Each NC-100R(A) uses one of the addresses on a SLC loop. It responds to regular polls from the control panel and reports its type and status. The LED blinks with each poll received. On command, it activates its internal relay.

Rotary switches set a unique address for each module. The address may be set before or after mounting. The built-in TYPE CODE (not settable) will identify the module to the control panel.

Specifications

Normal operating voltage: 15 to 32 VDC.

Maximum SLC current draw: 6.5 mA (LED).

Average operating current: 230 µA direct poll (CLIP mode), 255 µA group poll with LED flashing.

EOL resistance: not used.

Temperature range: 32°F to 120°F (0°C to 49°C). Humidity range: 10% to 93% non-condensing.

Dimensions: 4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4" (10.16 cm) square x 2.125" (5.398 mm) deep box.

Relay Contact Ratings

	_		
Load Description	Application	Maximum Voltage	Current Rating
Resistive	Non-Coded	30 VDC	3.0 A
Resistive	Coded	30 VDC	2.0 A
Resistive	Non-Coded	110 VDC	0.9 A
Resistive	Non-Coded	125 VAC	0.9 A
Inductive (L/R=5ms)	Coded	30 VDC	0.5 A
Inductive (L/R=2ms)	Coded	30 VDC	1.0 A
Inductive (PF=0.35)	Non-Coded	125 VAC	0.5 A

Agency Listings and Approvals

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/ULC Listed: S635.

• CSFM approved: file 7300-0028;230,

· FM approved.

• MEA approved: file 72-01-E, Vol. 2.

Product Line Information

NC-100R: Intelligent addressable relay module.

NC-100RA: Intelligent addressable relay module, ULC listed model.

SMB500: Optional surface-mount backbox.

NOTE: For installation instructions, see document 156-2593-001 and refer to the SLC Wiring Manual, document 52304.

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FCPS-24S6(C/E) & FCPS-24S8(C/E)

6- & 8-Amp 24-Volt Remote Power Supplies



Power Supplies

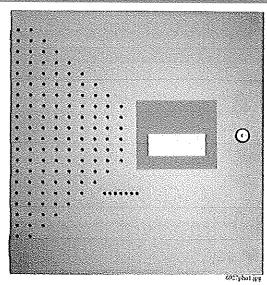
General

The FCPS-24S6E (6-amp) and FCPS-24S8E (8-amp) are remote power supplies with battery charger. The FCPS-24S6/24S8 may be connected to any 12 or 24 volt fire alarm control panel (FACP) or may be used as stand-alone supplies. Primary applications include notification appliance (bell) circuit (NAC) expansion (to support ADA requirements and NAC synchronization) or auxiliary power to support 24 volt system accessories. The FCPS-24S6/-24S8 provides regulated and filtered 24 VDC power to four notification appliance circuits configured as either four Class B (Style Y) or Class A (Style Z, with ZNAC-4 option module). Alternately, the four outputs may be configured as all non-resettable, all resettable or two non-resettable and two resettable. The FCPS-24S6/-24S8 also contains a battery charger capable of charging up to 18 AH batteries. FCPS-24S6C & FCPS-24S8C are ULC-tisted.

NOTE: Unless otherwise specified, the terms FCPS-24S6 and FCPS-24S8 used in this document refers to the standard FCPS-24S6 and FCPS-24S8, FCPS-24S6C and FCPS-24S8C, the FCPS-24S6E and FCPS-24S8E

Features

- UL-Listed NAC synchronization using System Sensor, Wheelock, or Gentex "Commander2" appliances.
- Operates as a "sync-follower" or as a "sync-generator" (default). See note on page 2.
- Contains two fully-isolated input/control circuits triggered from FACP NAC (NAC expander mode) or jumped permanently "ON" (stand-alone mode).
- Four Class B (Style Y) or four Class A (Style Z, with ZNAC-4 module) NACs.
- 6-amp (FCPS-24S6) or 8-amp (FCPS-24S8) full load output, with 3 amps maximum/circuit, in NAC expander mode (UL 864).
- 4-amp (FCPS-24S6) or 6-amp (FCPS-24S8) continuous output in stand-alone mode (UL 1481).
- · Compatible with coded inputs; signals passed through.
- · Optional power-supervision relay (EOLR-1).
- In stand-alone mode, output power circuits may be configured as: resettable, (reset line from FACP required), non-resettable, or a mix of two and two.
- Fully regulated and filtered power output optimal for powering four-wire smoke detectors, annunciators, and other system peripherals requiring regulated/filtered power.
- Power-limiting technology meets UL power-limiting requirements
- · Form-C normally-closed trouble relay.
- · Fully supervised power supply, battery, and NACs.
- · Selectable earth fault detection.
- AC trouble report selectable for immediate 2-hour delay.
- Works with virtually any UL 864 fire alarm control which utilizes an industry-standard reverse-polarity notification circuit (including unfiltered and unregulated bell power).
- · Requires input trigger voltage of 9 32 VDC.
- Self-contained in compact, locking cabinet 15"H x 14.5"W x 2.75"D (cm: 38.1H x 36.83W x 6.985D).



- Includes integral battery charger capable of charging up to 18 AH batteries. Cabinet capable of housing 7.0 AH batteries.
- Battery charger may be disabled via DIP switch for applications requiring larger batteries.
- Fixed, clamp-type terminal blocks accommodate up to 12 AWG (3.1mm²) wire.

Specifications

Primary (AC) Power:

- FCPS-24S6C/-24S8C: 120 VAC, 60 Hz, 3.2A maximum.
- FCPS-24S6E/-24S8E: 240 VAC, 50 Hz, 1.6A maximum.
- Wire Size: minimum #14 AWG (2.0mm²) with 600 V insulation.

Control Input Circuit:

- Trigger Input Voltage: 9 to 32 VDC.
- Trigger Current: 2.0 mA (16 32 V); Per Input: 1.0 mA (9 16 V).

Trouble Contact Rating: 5 A at 24 VDC.

Auxiliary Power Output: Specific application power 500 mA maximum.

Output Circuits:

- +24 VDC filtered, regulated.
- 3.0 A maximum for any one circuit.
- Total continuous current for all outputs (stand-alone mode):
 - -- FCPS-24S6: 4.0 A maximum.
 - FCPS-24S8: 6.0 A maximum.
- · Total short-term current for all outputs (NAC expander mode):
 - FCPS-24S6: 6.0 A maximum.
 - FCPS-24S8: 8.0 A maximum,

Secondary Power (Battery) Charging Circuit:

- Supports lead-acid batteries only.
- · Float-charge voltage: 27.6 VDC.

Maximum current charge: 1.5 A.
Maximum battery capacity: 18 AH.

Applications

Example 1: Expand notification appliance power an additional 6.0 A (FCPS-24S6) or 8.0 A (FCPS-24S8). Use up to four Class B (Style Y) outputs or four Class A (Style Z) outputs (using ZNAC-4). For example, the FACP notification appliance circuits will activate the FCPS when reverse-polarity activation occurs. Trouble conditions on the FCPS are sensed by the FACP through the notification appliance circuit.

Example 2: Use the FCPS to expand auxiliary regulated 24-volt system power up to 4.0 A (FCPS-24S6) or up to 6.0 A (FCPS-24S8). Both resettable and non-resettable power options are available. Resettable outputs are created by connecting the resettable output from the FACP to one or both of the FCPS inputs.

Example 3: Use addressable control modules to activate the FCPS instead of activating it through the FACP notification appliance circuits. This typically allows for mounting the FCPS at greater distances* away from the FACP while expanding system architecture in various applications.

For example, an addressable control module is used to activate the FCPS, and an addressable monitor module is used to sense FCPS trouble conditions. Local auxiliary power output from the FCPS provides power to the addressable control module.

*NOTE: Addressable FACPs are capable of locating control and monitor modules at distances of up to 12,500 feet (3,810 meters).

Sync Follower/Generator Note

In some installations, it is necessary to synchronize the flash timing of all strobes in the system for ADA compliance. Strobes accomplish this by monitoring very short timing pulses on the NAC power which are created by the FACP. When installed at the end of a NAC wire run, the FCPS-24S6/-24S8 can track (i.e. "follow") the strobe synchronization timing pulses on the existing NAC wire run. This maintains the overall system flash timing of the additional strobes attaches to the FCPS.

When the FCPS-24S6/-24S8 is configured (via DIP switch settings) as a "sync follower," the FCPS's NAC outputs track the strobe synchronization pulses present at the FCPS's sync input terminal. The pulses originate from an upstream FACP or other power supply.

When the FCPS-24S6/-24S8 are configured (via DIP switch settings) as a "sync generator," the FCPS's sync input terminals are not used. Rather, the FCPS is the originator of the strobe synchronization pulses on the FCPS's NAC outputs. In "sync generator" mode, the sync type (System Sensor, Wheelock, or Gentex) is selectable via DIP switch settings.

Standards and Codes

The FCPS-24S6 and FCPS-24S8 comply with the following standards:

- . NFPA 72 National Fire Alarm Code.
- UL 864 Standard for Control Units for Fire Alarm Systems (NAC expander mode).
- UL 1481 Power Supplies for Fire Alarm Systems.

Agency Listings and Approvals

These listings and approvals apply to the modules specified in this document. 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: S635, S674
- ULC Listed: S635 (FCPS-24S6C & FCPS-24S8C)
- CSFM Approved: 7315-0028:225
- MEA: 299-02-E
 FM Approved

Ordering Information

FCPS-24S6: 6.0 A, 120 VAC remote charger power supply. Includes main printed circuit board, transformers, enclosure (15"H x 14.5"W x 2.75"D [cm: 38.1H x 36.83W x 6.985D]), and installation instructions.

FCPS-24S6C: Same as above, ULC-listed.

FCPS-24S6R: Same as FCPS-24S6 with red enclosure.

FCPS-2496E: 6.0 A, 240 VAC remote charger power supply. Includes main printed circuit board, transformers, enclosure (15"H x 14.5"W x 2.75"D [cm: 38.1H x 36.83W x 6.985D]), and installation instructions.

FCPS-24S8: 8.0 A, 120 VAC remote charger power supply. Includes main printed circuit board, transformers, enclosure (15"H x 14.5"W x 2.75"D [cm: 38.1H x 36.83W x 6.985D]), and installation instructions.

FCPS-24S8C Same as above, ULC-listed.

FCPS-24S8R: Same as FCPS-24S8 with red enclosure.

FCPS-24S8E: 8.0 A, 240 VAC remote charger power supply. Includes main printed circuit board, transformers, enclosure (15"H x 14.5"W x 2.75"D [cm: 38.1H x 36.83W x 6.985D]), and installation instructions.

ZNAC-4: Class A (Style Y) NAC option module.

EOLR-1: 12/24 VDC end-of-line relay for monitoring four-wire smoke detector power.

BAT-1270: Battery, 12-volt, 7.0 AH (two required, see BAT Series data sheet DN-6933).

PS-1270: Ballery, 12-volt, 7.0 AH (two required, see PS Series data sheet DN-1109)

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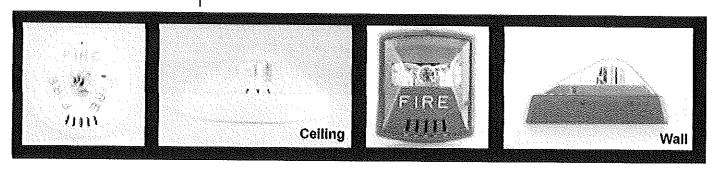
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Finally, Design and Safety Meet...



Description:

The Wheelock® Exceder™ Series of notification appliances feature a sleek modern design that will please building owners with reduced total cost of ownership. Installers will benefit from its comprehensive feature list, including the most candela options in one appliance, low current draw, no tools needed for setting changes, voltage test points, 12/24 VDC operation, universal mounting base and multiple mounting options for both new and retrofit construction.

The Wheelock[®] ExcederTM Series incorporates high reliability and high efficiency optics to minimize current draw allowing for a greater number of appliances on the notification appliance circuit. All strobe models feature an industry first of 8 candela settings on a single appliance. Models with an audible feature 3 sound settings (90, 95, 99 dB). All switches to change settings, can be set without the use of a tool and are located behind the appliance to prevent tampering. Wall models feature voltage test points to take readings with a voltage meter for troubleshooting and AHJ inspection.

The Wheelock[®] Exceder™ Series of wall and ceiling notification appliances feature a Universal Mounting Base (UMB) designed to simplify the installation and testing of horns, strobes, and combination horn strobes. The separate universal mounting base can be pre-wired to allow full testing of circuit wiring before the appliance is installed and the surface is finished. It comes complete with a Contact Cover for protection against dirt, dust, paint and damage to the contacts. The Contact Cover also acts as a shunting device to allow pre-wire testing for common wiring issues. The Contact Cover is polarized to prevent it from being installed incorrectly and prevents the appliance from being installed while it is on the UMB. When the Contact Cover is removed the circuit will show an open until the appliance is installed. The UMB allows for consistent installation and easy replacement of appliances if required. Wall models provide an optional locking screw for extra secure installation, while the ceiling models provide a captivated screw to prevent the screw from falling during installation.

- Save up to 48% in current draw*
- Up to 9 models now in 1 appliance
- Save up to 14% cost of installation**



Sleek Modern Aesthetics



Finger Slide Switches



Voltage Test Points



Multiple Voltages



3 Audible Settings 90, 95, 99 dB



8 Candela Settings ***
Wall - 15/1575/30/75/95/110/135/185
Ceiling - 15/30/60/75/95/115/150/177



Universal Mounting Base ***
Ceiling and Wall
Mounts to 5 Backbox Types



Environmentally Friendly Low Current Draw

Compatibility and Requirements

- Synchronize using the Wheelock® Sync Modules or panels with built-in Wheelock® Patented Sync Protocol
- Compatible with UL "Regulated Voltage" using filtered VDC or unfiltered VRMS input voltage
- Strobes produce 1 flash per second over the "Regulated Voltage" range

^{*} Compared to competitive models

[&]quot; Compared to previous models

^{***} Patented

NOTE: All CAUTIONS and WARNINGS are identified by the symbol 4. All warnings are printed in bold capital letters.

WARNING: PLEASE READ THESE SPECIFICATIONS AND ASSOCIATED INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. VISIT WWW.COOPERNOTIFICATION.COM OR CONTACT COOPER NOTIFICATION FOR THE CURRENT INSTALLATION INSTRUCTIONS. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS OR WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

General Notes:

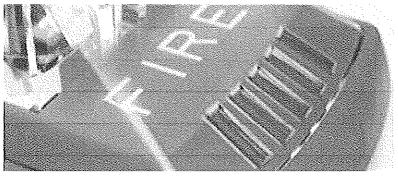
General Notes:

- · Strobes are designed to flash at 1 flash per second minimum over their 'Regulated Voltage Range'.
- · All candela ratings represent minimum effective strobe intensity based on UL Standard 1971.
- Series Exceder Strobe products are Listed under UL Standards 1971 and 464 for indoor use with a temperature range of 32°F to 120°F (0°C to 49°C) and maximum humidity of 93% (± 2%) UL 464 (85% UL 1971).
- · Series Exceder horns are under UL Standard 464 for audible signal appliances (Indoor use only).

		Low	20,000,000,000.000	rent	Drav	v = F	ewe	r Pov	ver S	Supp	lies				
Strobe R	atings per UL Standa	ard 197							^						
						2	5514459.VG5V	JL Max / 24 FW	0.0000000000000000000000000000000000000	l'			3/167	12 \	VDC
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
ST	8.0-33.0	0.057	0.070	0.085		0.135	0.163	0.182		0.205			0,253	0.110	0.140
STC	8.0-33.0	0.061	65 (65 %)	0.085	0.103	0.135	0.163	45.72	0.182		0.205	0.253		0.110	

Horn Str	obe Ratings per UL 1	971 & 1	11 464	at 24 V	DC										
			,2 ,0 ,				UL Ma	ax Curr	ent* at 9	99 dBA					
							CITED CONTRACTOR	/DC						12 \	VDC
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
HS	8.0-33.0	0.082	0.095	0.102	17 35 18	0.148	0.176	0.197	70 000 000 10 000 000	0.242			0.282	0.125	0.159
HSC	8.0-33.0	0.082		0.102	0.141	0.148	0.176		0.197		0.242	0.282		0,125	
							UL Ma	x Curre	ent* at 9)5 dBA					
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	24 \	/DC	- Andrewsky (1984) and (1984)		delani alikatanian			12 \	VDC
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
HS	8.0-33.0	0.073	0.083	0.087		0.139	0.163	0.186	0.000	0.230			0.272	0.122	0.153
HSC	8.0-33.0	0.073		0.087	0,128	0.139	0.163		0.186		0.230	0.272		0.122	
							UL Ma	x Curre	ent' at 9	00 dBA					
							24 \	/DC	and an extra Contract of the	and designations are all an	than an artist methy to them a settler	10/0 from 12/10/07/00/10 mails 10/1	2. 30 (C) (M) (2. 0 M)	12 \	VDC
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
HS	8.0-33.0	0,065	0.075	0.084		0.136	0.157	0.184	\$5.75% (0.00) \$1.75% (0.00)	0.226			0.267	0.120	0.148
HSC	8.0-33.0	0.065		0.084	0.120	0.136	0.157		0.184		0.226	0.267		0.120	

Horn Rati	Horn Ratings per UL 464									
Model	Regulated Voltage Range VDC	99 dB	95 dB	90 dB						
HN	16-33.0	0.064	0.044	0.022						
HNC	16-33.0	0.084	0.044	0.022						
HN	8.0-17.5	0.047	0.026	0.017						
HNC	8.0-17.5	0.047	0.026	0.017						



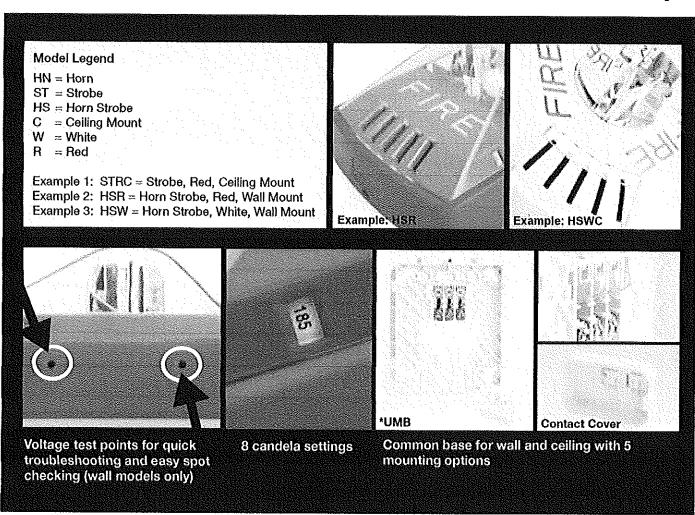
^{*} UL max current rating is the maximum RMS current within the listed voltage range (16-33 VDC for 24 VDC units). For strobes the UL max current is usually at the minimum listed voltage (16 VDC for 24 VDC units). For audibles the max current is usually at the maximum listed voltage (33 VDC for 24 VDC units). For unfiltered ratings, see installation instructions.

Specification & Ordering Information

M	lodel	Strobe Candela	Sync w/ SM, DSM or PS-6 & PS-8	12/24 VDC*	Mounting Options
H	orn Strobes				<u>*</u>
3 3 H	SR	15/1575/30/75/95/110/135/185	×	1 Ba	UMB**
B H	sw	15/1575/30/75/95/110/135/185	Х	X	T UMB**
	SRC	15/30/80/75/95/115/150/177	×	1998	UMB**
<u>@</u> H:	swc	15/30/60/75/95/115/150/177	Х	x	UMB**
	trobes	8			$\frac{1}{L}$
.∃ s	TR	15/1575/30/75/95/110/135/185	X	X	OMB**
@ s	TW	15/1575/30/75/95/110/135/185	X	X	UMB**
<u>s</u>	TRC	15/30/60/75/95/115/150/177	X	X	UMB**
(2) S	TWC	15/30/60/75/95/115/150/177	X	X	UMB**
ōμ	orn	<u>(2)</u>			
⊚ HI	NR	<u>o</u>	Х	X	UMB**
<u> </u>	NW		Х	X	UMB**
出出	NRC	\{\text{\color=1}\}	X	X	P∭ UMB** I
Н	NWC K		X	X	UMB**

^{*12} VDC models feature 15 & 15/75 settings

**UMB = Universal Mounting Base



NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Cooper Wheelock Inc., dba Cooper Notification standard terms and conditions.

Architects and Engineers Specifications

The notification appliances shall be Wheelock® Exceder™ Series HS Audible Strobe appliances, Series ST Visual Strobe appliances and Series HN Audible appliances or approved equals. The Series HS and ST Strobes shall be listed for UL Standard 1971 (Emergency Devices for the Hearing-Impaired) for Indoor Fire Protection Service. The Series HS and HN Audibles shall be UL Listed under Standard 464 (Fire Protective Signaling). All Series shall meet the requirements of FCC Part 15 Class B. All inputs shall be compatible with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP) with the ability to operate from 8 to 33 VDC. indoor wall models shall incorporate voltage test points for easy voltage inspection.

The Series HS Audible Strobe and ST Strobe appliances shall produce a flash rate of one (1) flash per second over the Regulated Voltage Range and shall incorporate a Xenon flashtube enclosed in a rugged Lexan® lens. The Series shall be of low current design. Where Multi-Candela appliances are specified, the strobe intensity shall have 8 field selectable settings at 15, 15/75, 30, 75, 95, 110, 135, 185 candela for wall mount and 15, 30, 60, 75, 95, 115, 150, 177 candela for ceiling mount. The selector switch for selecting the candela shall be tamper resistant. The 15/75 candela strobe shall be specified when 15 candela UL Standard 1971 Listing with 75 candela on-axis is required (e.g. ADA compliance). Appliances with candela settings shall show the candela selection in a visible location at all times when installed.

The audible shall have a minimum of three (3) field selectable settings for dBA levels and shall have a choice of continuous or temporal (Code 3) audible outputs.

The Series HS Audible Strobe, ST Strobe and Series HN Audible shall incorporate a patented Universal Mounting Base that shall allow mounting to a single-gang, double-gang, 4-inch square, 3.5-inch octal, 4-inch octal or 100mm European type back boxes. Two wire appliance wiring shall be capable of directly connecting to the mounting base. Continuity checking of the entire NAC circuit prior to attaching any notification appliances shall be allowed. Product shall come with Contact Cover to protect contact springs. Removal of an appliance shall result in a supervision fault condition by the Fire Alarm Control Panel (FACP). The mounting base shall be the same base among all horn, strobe, horn strobe, wall and ceiling models. All notification appliances shall be backwards compatible.

The Series HS and ST wall models shall have a low profile measuring 5.24" H x 4.58" W x 2.19" D. Series HN wall shall measure 5.24" H x 4.58" W x 1.6" D. The Series HSC and STC shall been round and have a low profile with a diameter of 6.68" x 2.63" D. Series HNC ceiling shall have a diameter of 6.68" x 1.50" D.

When synchronization is required, the appliance shall be compatible with Wheelock®'s SM, DSM Sync Modules, Wheelock® Power Supplies or other manufacturer's panels with built-in Wheelock® Patented Sync Protocol. The strobes shall not drift out of synchronization at any time during operation. If the sync protocol fails to operate, the strobe shall revert to a non-synchronized flash-rate and still maintain (1) flash per second over its Regulated Voltage Range. The appliance shall also be designed so that the audible signal may be silenced while maintaining strobe activation when used with Wheelock® synchronization protocol.

Wall Appliances – UL Standard 1971, UL Standard 464, California State Fire Marshal (CSFM), ULC Celling Appliances – UL Standard 1971, UL Standard 464, California State Fire Marshal (CSFM), ULC



WE ENCOURAGE AND SUPPORT NICET CERTIFICATION 3 YEAR WARRANTY

Exceder - Spec Sheet 11/09

NJ Location 273 Branchport Ave. Long Branch, NJ 07740 P: 800-631-2148 F: 732-222-8707 www.coopernotification.com

FL Location 7565 Commerce Ct. Sarasota, FL 34243 P: 941-487-2300 F: 941-487-2389

VA Location 4401 Wilson Bouleyard, Suite 220 Arlington, VA 22203 P: 877-459-7726 F: 703-294-6560





Wheelock RSS & RSSP Series

Single- and Multi-Candela Strobes and Strobe Plates



Audio/Visual Devices

General

Wheelock's patented Series RSS Strobe Appliances and Series RSSP Strobe Plates have lower current draw while maintaining outstanding performance, reliability and cost effectiveness. These versatile appliances will satisfy virtually all requirements for indoor, walf or ceiling mount appliances.

Strobe options for wall mount models include 15/75 or Wheelock's patented MCW multi-candela strobe with field selectable candela settings of 15/30/75/110cd. Ceiling mount models include the patented MCC multi-candela ceiling strobe with field selectable intensities of 15/30/75/95cd or the high intensity MCCH strobe with field selectable 115/177cd.

All models may be synchronized when used in conjunction with the Wheelock SM or DSM Sync Modules or a power supply with Wheelock's patented Sync Protocol. Synchronized strobes can eliminate possible restrictions on the number of strobes in the field of view. Wheelock's synchronized strobes offer an easy way to comply with ADA recommendations concerning photosensitive epilepsy as well as meetings the requirements of NFPA 72.

Wheelock's Series RSS Strobes employ a Patented Integral Strobe Mounting Plate that can be mounted to a single-gang, double gang, 4" square, 100mm European backboxes or the SHBB surface backbox. If the flush backbox has side or top space between it and the finished wall, the NATP (Notification Appliance Trimplate) may be used. It provides an additional .65" of trim for the appliance. An attractive cover plate is provided for a clean, finished appearance on all models.

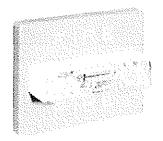
The Series RSSP Multi-Candela Strobe Plates are a cost effective way to retrofit required wall strobe appliances to bells, horns, chimes, multitones, or speakers and easily mounts to standard 4" backboxes or, for surface mount, use with Wheelock's SBL2 surface backbox.

Features

- Wall mount multi-candela models are available with field selectable candela settings of 15/30/75/110cd or 135/ 185cd. Single candela models are available in 15/75cd.
- Ceiling mount multi-candela models are available with field selectable candela settings of 15/30/75/95cd or 115/177cd.
- Strobes produce 1 flash per second over the regulated voltage range.
- 12 and 24 VDC models with wide UL "Regulated Voltage" using filtered (DC) or unfiltered VRMS input voltage.
- Synchronize with Wheelock SM or DSM Sync Modules or power supplies with built-in Sync Protocol.
- ADA/NFPA/UFC/ANSI compliant. Meets OSHA 29 Part 1910.165.

General Notes

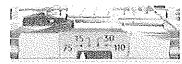
- RSS/RSSP Series strobe products are listed under UL 1971 for indoor use with a temperature range of 32°F to 120°F (0°C to 49°C) and maximum humidity of 93% (± 2%).
- "Regulated Voltage Range" is the newest terminology used by UL to identify the voltage range. Prior to this change, UL used the terminology "Listed Voltage Range."



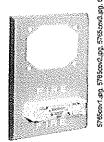


Series RSS

RSS Round



Multi-Candela (bottom of strobe lens)



Series RSSP



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NOTE: Due to continuous development of our products, specifications and offering are subject to change without notice in accordance with Wheelock, Inc. standard terms and conditions.

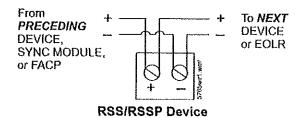
Table 1: Audibles/Sp	eakers for RSSP Strobe Plate
Product	Series
Multitone Appliances	AMT, MT
Homs	AH, NH, HS
Motor Bells	MB-G6/G10
Speakers	ET-1010/1080, E70, ET70
Chimes	CH70

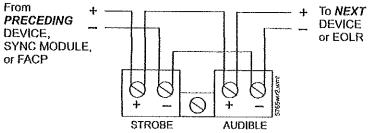
RSS/RSSP		RSS	/RSSP	- Wall	Mount		Ceiling Mount						
24 VDC Models	241575W	24MCW				24MCWH		24MCC				24MCCH	
wodels	1575cd	15cd	30cd	75cd	110cd	135cd	185cd	15cd	30cd	75cd	95cd	115cd	177cd
UL max*	.090	.060	.092	.165	.220	.300	.420	.065	.105	.189	.249	.300	.420
RSS/RSSP 24 VDC	RSS/RSSP Wall Mount	* RM	* RMS current ratings are per UL average RMS method. UL max current rating is the maximum										
Models	121575W	RMS current within the listed voltage range (16-33V for 24V units). For strobes, the UL max curre is usually at the minimum listed voltage (16V for 24V units). For audibles, the max current is usually at the minimum listed voltage (16V for 24V units).								current			
12VDC	.152	at the	listed v	oltage (33V for 2	4V units).	For unfil	tered F	VR ratin	gs, see	installa	lion instru	ctions.
UL max*	.255	1								_			

Table 3: Syn	Table 3: Sync Modules/Power Supplies								
Model Number	Order Code	Input Voltage (VDC)	Average Mean Current @ 24VDC	Mounting Options					
SM-12/24-R	6369	24	.028	W					
DSM-12/24-R	6374	24	.035	W					

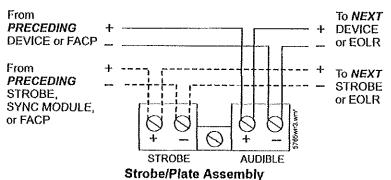
NOTE: SM Sync Module is rated for 3.0 amperes 24VDC. DSM Sync Module is rated for 3.0 amperes per circuit. The maximum number of interconnected DSM modules is twenty (20).

Wiring Diagrams



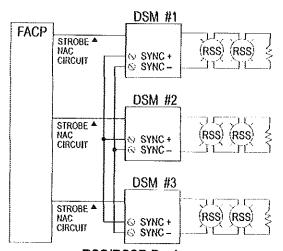


Strobe/Plate Assembly (with Audible and Visible operating in unison)

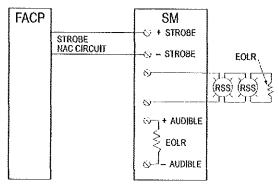


(with Audible and Visible operating independently)

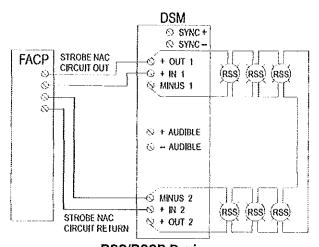
Wiring Diagrams (continued)



RSS/RSSP Devices (synchronized with DSM module; single Class "A" NAC circuit)



RSS/RSSP Devices (synchronized with SM module; single Class "B" NAC circuit)



RSS/RSSP Devices
(synchronized with multiple DSM modules)
(NOTE: INTERCONNECTING WIRING SHOWN. MAXIMUM OF 20 DSM MODULES)

For details on using the SM or DSM Sync Modules see installation instructions #P83123 (for SM) or #P83177 (for DSM).



WARNING: CONTACT WHEELOCK FOR THE CURRENT INSTALLATION INSTRUCTIONS AND GENERAL INFORMATION SHEET (P82380) ON THESE PRODUCTS. THESE DOCUMENTS UNDERGO PERIODIC CHANGES. IT IS IMPORTANT THAT YOU HAVE CURRENT INFORMATION ON THE PRODUCTS. THESE MATERIALS CONTAIN IMPORTANT INFORMATION THAT SHOULD BE READ PRIOR TO SPECIFYING OR INSTALLING THESE PRODUCTS, INCLUDING:

- TOTAL CURRENT REQUIRED BY ALL APPLIANCES CONNECTED TO SYSTEM SECONDARY POWER SOURCES.
- FUSE RATINGS ON NOTIFICATION APPLIANCE CIRCUITS TO HANDLE PEAK CURRENTS FROM ALL APPLIANCES ON THOSE CIRCUITS.
- COMPOSITE FLASH RATE FROM MULTIPLE STROBES WITHIN A PERSON'S FIELD OF VIEW.
- ADDING, REPLACING OR CHANGING APPLIANCES OR CHANGING CANDELLA SETTINGS WILL AFFECT CURRENT DRAW. RECALCULATE CURRENT DRAW TO INSURE THAT THE TOTAL AVERAGE CURRENT AND TOTAL PEAK REQUIRED BY ALL APPLIANCES DO NOT EXCEED THE RATED CAPACITY OF THE POWER SOURCES OR FUSES.
- THE VOLTAGE APPLIED TO THE PRODUCTS MUST BE WITHIN THEIR "REGULATED VOLTAGE RANGE."
- INSTALLATION OF 110 CANDELA STROBE PRODUCTS IN SLEEPING AREAS.
- INSTALLATION IN OFFICE AREAS AND OTHER SPECIFICATION AND INSTALLATION ISSUES.
- USE STROBES ONLY ON CIRCUITS WITH CONTINUOUSLY APPLIED OPERATING VOLTAGE. DO
 NOT USE STROBES ON CODED OR INTERRUPTED CIRCUITS IN WHICH THE APPLIED VOLTAGE
 CYCLED ON AND OFF AS THE STROBE MAY NOT FLASH.
- FAILURE TO COMPLY WITH THE INSTALLATION INSTRUCTIONS OR GENERAL INFORMATION SHEETS COULD RESULT IN IMPROPER INSTALLATION, APPLICATION, AND/OR PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.
- CONDUCTOR SIZE (AWG), LENGTH AND AMPACITY SHOULD BE TAKEN INTO CONSIDERATION PRIOR TO DESIGN AND INSTALLATION OF THESE PRODUCTS, PARTICULARLY IN RETROFIT INSTALLATIONS.

Architectural/Engineering Specifications

The visual notification appliances shall be Wheelock Series RSS Strobe Appliances or approved equals. The Series RSS shall meet and be listed for UL Standard 1971 (Emergency Devices for the Hearing Impaired) for indoor Fire Protection Service. The strobe shall be listed for indoor use and shall meet the requirements of FCC Part 15 Class B. The strobe appliances shall produce a flash rate of one (1) flash per second over the Regulated Voltage Range and shall incorporate a Xenon flashtube enclosed in a rugged Lexan® lens. All inputs shall be compatible with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP). When Strobe Plates are to be installed, they shall be the Wheelock Series RSSP Strobe Plate and shall have the same electronic circuitry as the Wheelock Series RSS.

The Series RSS Strobe shall be of low current design. Where Multi-Candela appliances are specified, the strobe intensity shall have field selectable settings and shall be rated per UL Standard 1971 at 15/30/75/110cd or 135/185cd for wall mount and 15/30/75/95cd or 115/175cd for ceiling mount. The selector switch for selecting the candela shall be tamper resistant. The 1575 candela strobe shall be specified when 15 candela UL Standard 1971 Listing with 75 candela on axis is required (e.g. ADA compliance).

When synchronization is required, the appliance shall be compatible with Wheelock's SM or DSM Sync Modules or a power supply with built-in Patented Wheelock Sync Protocol. The strobes shall not drift out of synchronization at any time during operation. If the Sync Module or power supply fail to operate (i.e. contacts remain closed), the strobe shall revert to a non-synchronized flash rate. The strobes shall be designed for indoor surface or flush mounting.

The Series RSS Strobe Appliances shall incorporate a Patented, Integral Strobe Mounting Plate that shall allow mounting to single-gang, double-gang, 4-inch square, 100mm European type backboxes, or the SHBB Surface Backbox. If required, an NATP (Notification Appliance Trimplate) shall be provided. An attaching cover plate shall be provided to give the appliance an attractive appearance. The appliance shall not have any mounting holes or screw heads visible when the installation is completed.

The Series RSSP Multi-Candela or single candela Strobe Plate shall mount to either a standard 4-inch square backbox for flush mounting, or the Wheelock SBL2 backbox for surface mounting.

All notification appliances shall be backward compatible. NOTE: Due to continuous development of our products, specifications and offering are subject to change without notice in accordance with Wheelock, Inc. standard terms and conditions.

Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in progress. Consult factory for listing status.

• ULC Listed: E5391

ULC Listed: CS 356
 CSFM: 7125-0785:141

MEA: 151-92-E Vol. XIX, XX;

Vol. XXIV (RSS-24MCW-FR/-FW)

FM Approved

Ordering Information

Model	Wall/ Celling Mount	Non- Sync	Sync w/ SM, DSM	Strobe Candela	12/24 VDC	Model Color	Model Shape	Agency Approvals
RSS-24MCW-FR	Wall	Х	Х	15/30/75/110	24	Red	Square	UL, MEA, CSFM, FM, BFP
RSS-24MCW-FW	Wali	Х	Х	15/30/75/110	24	White	Square	UL, MEA, CSFM, FM, BFP
RSS-241575W-FR	Wall	Х	Х	15 (75 on axis)	24	Red	Square	UL, MEA, CSFM, FM, BFP
RSS-24MCC-FW	Ceiling	X	х	15/30/75/95	24	White	Square	UL, MEA, CSFM, FM
RSS-24MCC-FR	Ceiling	Х	Х	15/30/75/95	24	Red	Square	UL, MEA, CSFM, FM
RSS-24MCCR-FW	Ceiling	X	Х	15/30/75/95	24	White	Round	UL, MEA, CSFM, FM
RSS-24MCCHR-FW	Ceiling	Х	Х	115/177	24	White	Round	UL, MEA, CSFM, FM
RSSWP-2475W-FR	Wall	х	х	180 @ 77°F 75 @ -31°F	12/24	Red	Square	UL, MEA, CSFM, FM

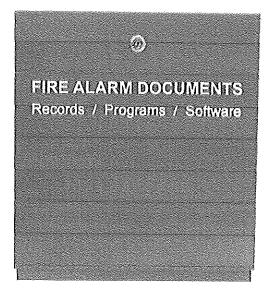
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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without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



For more information, contact Notifier. Phone: (203) 484-7161, FAX: (203) 484-7118. www.notifier.com



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

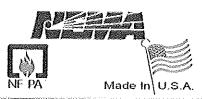
Fire Alarm Documents Records / Programs / Software

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



MCE ((1)

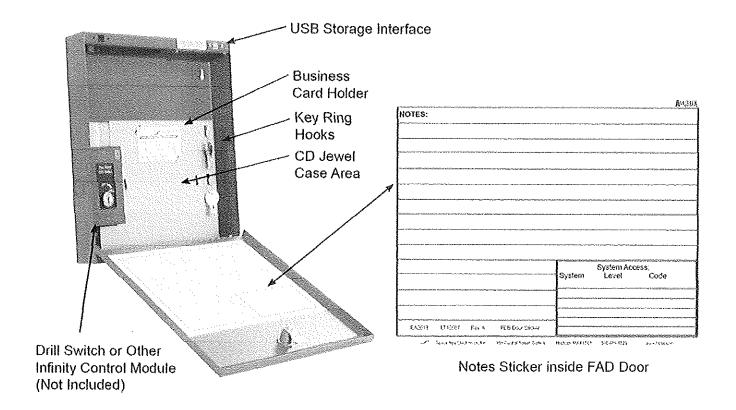
Space Age Electronics, Inc. www.1sae.com 800.486.1723 Toll Free 508.485.0966 Local 508.485.4740 Fax



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 ½ 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

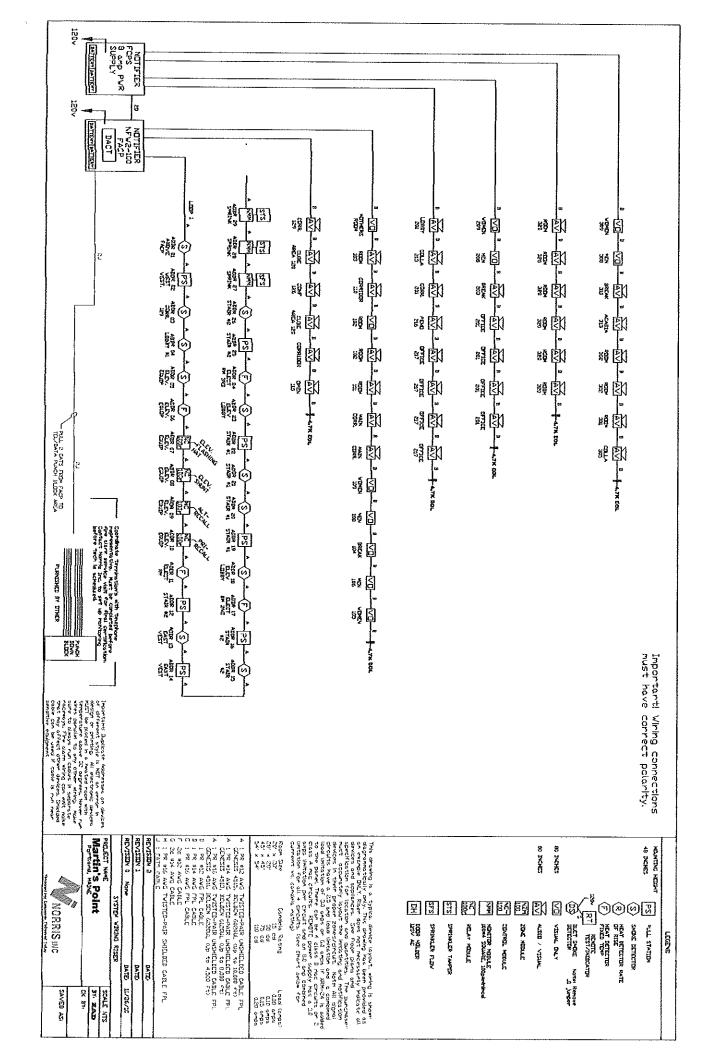
SSU00673 Custom screening with your Logo

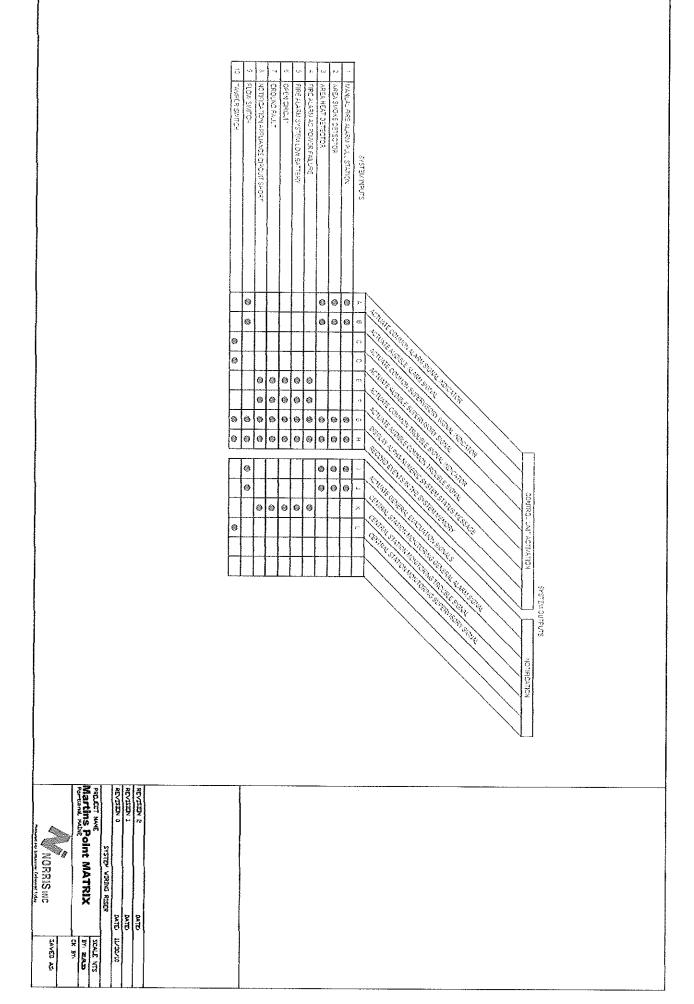
Check out our Infinity line eFAD single gang 2 Gig digital storage solutions (IAMEFAD)

AGE ([])

Space Age Electronics, Inc. www.1sae.com 800.486.1723 Toll Free 508.485.0966 Local 508.485.4740 Fax

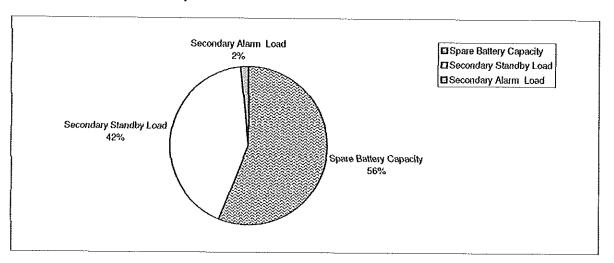
This document is subject to change without notice, see doc # ED0479 for legal disclaimer





Battery Distribution Chart

Shows amp-hour distribution of your selections.



Comments

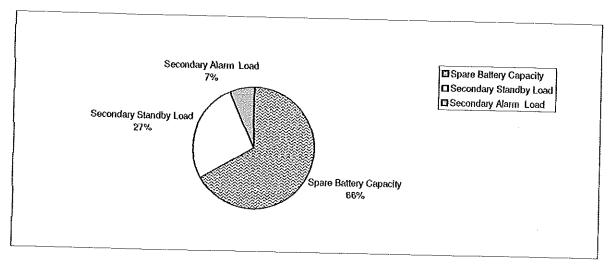
- 1. Batteries will fit in the FACP cabinet.
- 2. Selected battery size meets secondary load requirements.
- 3. The selected batteries (18AH) are within the charger range of this power supply (7-18AH).

Spare Battery Capacity	10.12	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	7.59	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.30	Secondary Alarm Load (AH) * Derating Factor

	1 0	PS-24s8 Power Supply	
Protected Pre	emises: Martins Point, Northp	port	Date: 11/30/2010
City:	Portland	State: Maine	Zíp:
Prepared By:	Norris Inc.		Phone: (207)-883-347
Address:	2257 West Broadway	Email:	•
City:	South Portland	State: Maine	Zip: 04106
	Current Requirements d by source to power the fire	3.20 AMPS @ 120 V	'AC
Primary Star Jurrent load on on-alarm cond	the primary power supply dur	0.09 Amps	
rimary Alar	m I oad		
	the primary power supply dur	4.66 Amps	
urrent load on larm condition econdary L	the primary power supply dur	2.34 Amp Hours	
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Battery Distribution Chart

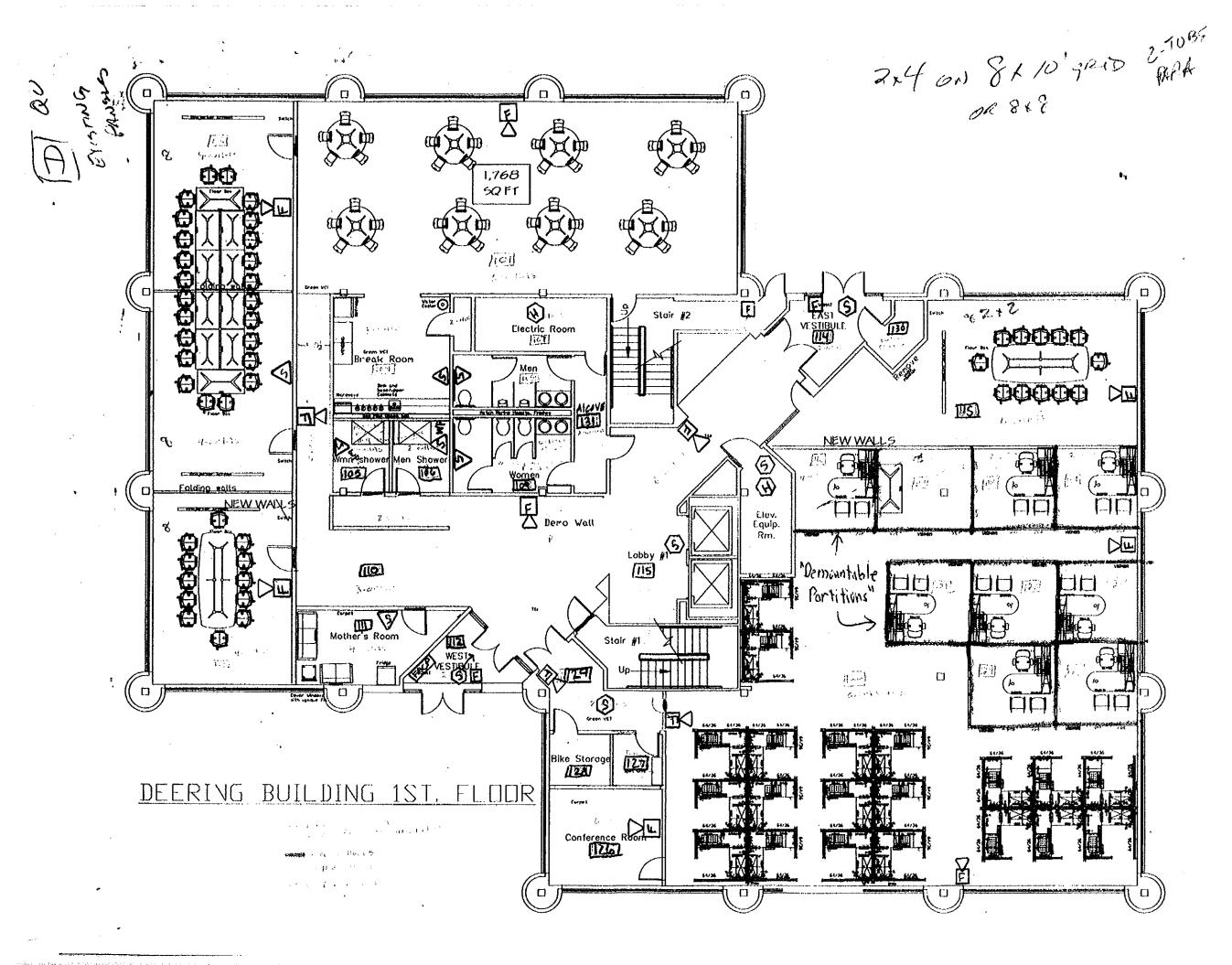
Shows amp-hour distribution of your selections.



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	4.66	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	1.87	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.47	Secondary Alarm Load (AH) * Derating Factor



Martin's Point Northport Plaza

FACE - fire alarm panel.

5 - Smoke

(H) - Heat

F-pull

-horn Strobe

57- Strobe

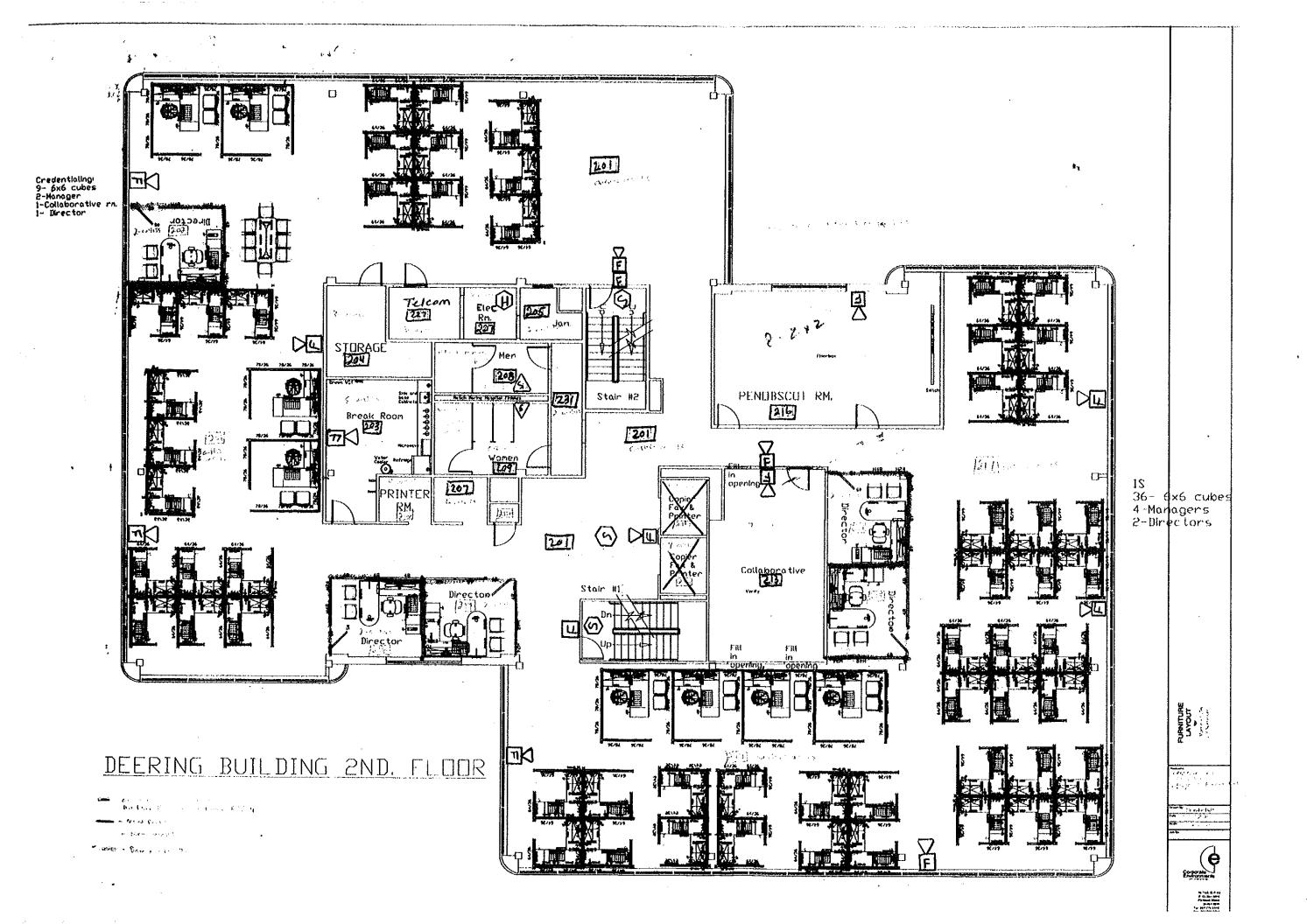
wp-weather proof

LAYOUT

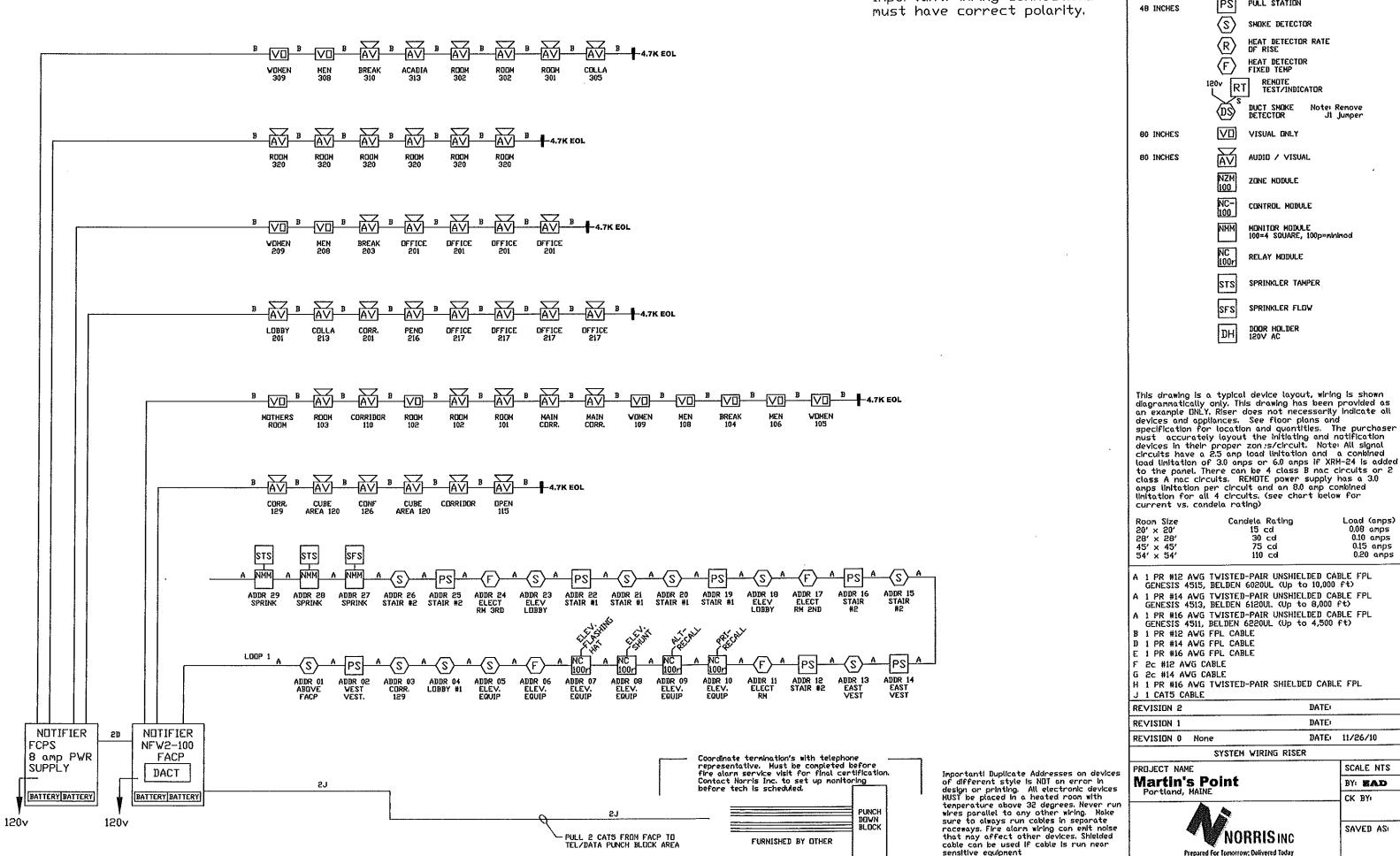
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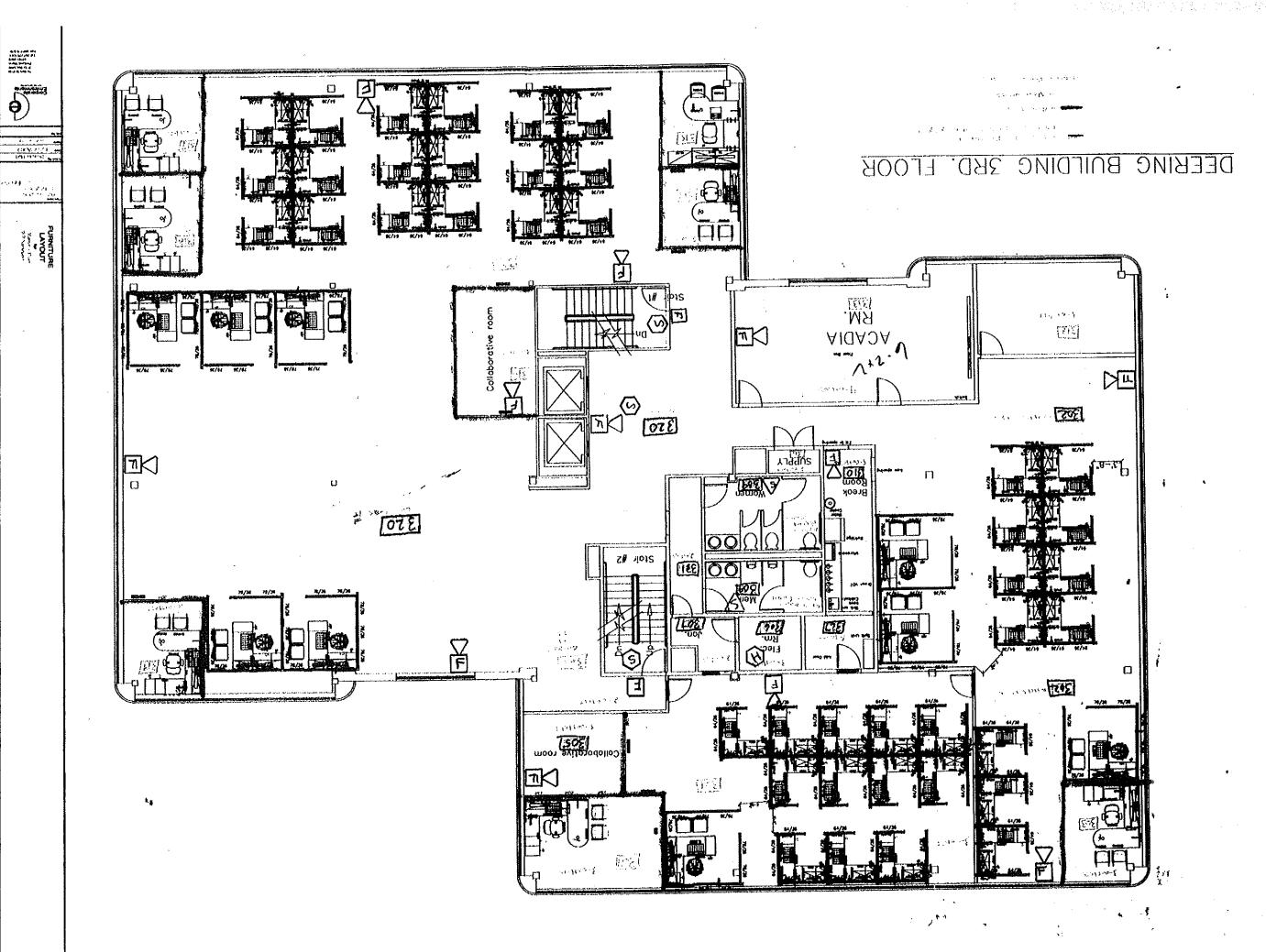
Important! Wiring connections



LEGEND MOUNTING REIGHT PS PULL STATION

load limitation of 3.0 amps or 6.0 amps if XRM-24 is added to the panel. There can be 4 class B nac circuits or 2 class A nac circuits. REMOTE power supply has a 3.0

toom Size	Candela Rating	Load (amps)
0' × 20'	15 cd	0.08 amps
8' x 28'	30 cd	0.10 amps
5' x 45'	75 cd	0.15 amps
i4' × 54'	110 cd	0,20 amps



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Prepared for Tomoston; Defivered Today

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NOTIFICATION		CONTROL UNIT ACTIVATION															

SYSTEM OUTPUTS

10 TAMPER SWITCH FLOW SWITCH

GROUND FAULT пояно изчо

AREA HEAT DETECTOR \$ AREA SMOKE DETECTOR

9

NOTIFICATION APPLIANCE CIRCUIT SHORT

FIRE ALARM SYSTEM LOW BATTERY FIRE ALARM AC POWER FAILURE

NOITATE JJUG MRAJA BRIL STAUNAM 1

SYSTEM INPUTS

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CK BA

BA: KVD

SCALE NTS SYSTEM WIRING RISER