

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read
Application And
Notes, if Any,
Attached

BUILDING DEPARTMENT

PERMIT

Permit Number: 040719

This is to certify that Eighth Maine Reg Mem Assoc Morris, Inc

has permission to Addition of fire alarm system

AT 13 8th Maine Ave 085 N013001

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

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must give and when permission procured before this building or part thereof is laid or closed-in. **HEAR NOTICE IS REQUIRED.**

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS
PERMIT ISSUED
Fire Dept. _____
Health Dept. _____
Appeal Board JUN 11 2004
Other _____
Department Name
CITY OF PORTLAND

[Signature]
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 04-0719	Issue Date:	CBL: 085 N013001
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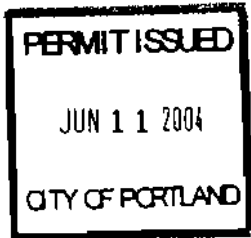
Location of Construction: 13 8th Maine Ave	Owner Name: Eighth Maine Reg Mem Assoc	Owner Address: Maine Ave	Phone: 766-5086
Business Name:	Contractor Name: Norris, Inc.	Contractor Address: 2257 W Broadway South Portland	Phone: 2078833473
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	Zone:

Past Use: none	Proposed Use: fire alarm system	Permit Fee: \$120.00	Cost of Work: \$10,752.00	CEO District: 1
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: Type: <i>ALARM ONLY</i>	

Proposed Project Description: Addition of fire alarm system	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
Signature:		Date:

Permit Taken By: jodinea	Date Applied For: 06/03/2004	Zoning Approval
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<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</p>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetland</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/></p> <p>Date:</p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p>	<p>Historic Preservation</p> <p><input type="checkbox"/> Not in District or Landmark</p> <p><input type="checkbox"/> Does Not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p>
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CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT _____ ADDRESS _____ DATE _____ PHONE _____

City of Portland, Maine - Building or Use Permit

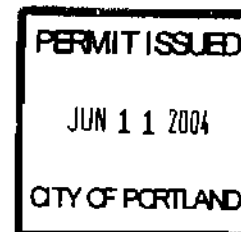
389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 04-0719	Date Applied For: 06/03/2004	CBL: 085 N013001
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Location of Construction: 13 8th Maine Ave	Owner Name: Eighth Maine Reg Mem Assoc	Owner Address: Maine Ave	Phone: () 766-5086
Business Name:	Contractor Name: Norris, Inc.	Contractor Address: 2257 W Broadway South Portland	Phone (207) 883-3473
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	

Proposed Use: fire alarm system	Proposed Project Description: Addition of fire alarm system
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Dept: Zoning	Status: Not Applicable	Reviewer:	Approval Date:	Ok to Issue: <input type="checkbox"/>
Note:				
Dept: Building	Status: Approved with Conditions	Reviewer: Mike Nugent	Approval Date: 06/09/2004	Ok to Issue: <input checked="" type="checkbox"/>
Note:				
1) Must comply with NFPA 72				
Dept: Fire	Status: Approved with Conditions	Reviewer: Lt. MacDougal	Approval Date: 06/07/2004	Ok to Issue: <input checked="" type="checkbox"/>
Note:				
1) the fire alarm system shall be tested to the appropriate standard and the results submitted to the Portland Fire Department				
2) the fire alarm system shall be installed in accordance with NFPA 72 standards				



City of Portland, Maine - Building or Use Permit

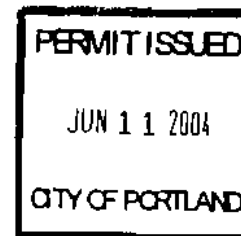
389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

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Location of Construction: 13 8th Maine Ave	Owner Name: Eighth Maine Reg Mem Assoc	Owner Address: Maine Ave	Phone: () 766-5086
Business Name:	Contractor Name: Norris, Inc.	Contractor Address: 2257 W Broadway South Portland	Phone: (207) 883-3473
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	

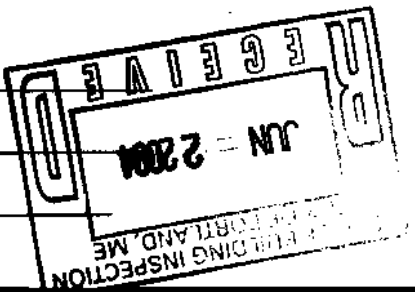
Proposed Use: fire alarm system	Proposed Project Description: Addition of fire alarm system
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Dept: Zoning	Status: Not Applicable	Reviewer:	Approval Date:
Note:			Ok to Issue: <input type="checkbox"/>
Dept: Building	Status: Approved with Conditions	Reviewer: Mike Nugent	Approval Date: 06/09/2004
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) Must comply with NFPA 72			
Dept: Fire	Status: Approved with Conditions	Reviewer: Lt. MacDougal	Approval Date: 06/07/2004
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) the fire alarm system shall be tested to the appropriate standard and the results submitted to the Portland Fire Department			
2) the fire alarm system shall be installed in accordance with NFPA 72 standards			



All Purpose Building Permit Application

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

Location/Address of Construction: <u>13 Thirteen 8th Maine Ave (Peake Island)</u>		
Total Square Footage of Proposed Structure	Square Footage of Lot	
Tax Assessor's Chart, Block & Lot Chart# <u>85</u> Block# <u>N</u> Lot# <u>13</u>	Owner: <u>8th Maine Memorial Assoc.</u>	Telephone: <u>766-5086</u>
Lessee/Buyer's Name (if Applicable)	Applicant name, address & telephone: <u>Norris Inc.</u> <u>P.O. Box 2551</u> <u>S. Portland, ME 04116</u> <u>207 883 3473</u>	Cost Of Work: \$ <u>10,752.⁰⁰</u> Fee: \$ <u>120.⁰⁰ / 100</u>
Current use: _____		
If the location is currently vacant, what was prior use: _____		
Approximately how long has it been vacant: _____		
Proposed use: Project description: <u>Fire Alarm</u>		
Contractor's name, address & telephone: <u>Norris Inc</u> <u>P.O. 2551 S Portland ME 04116</u>		
Who should we contact when the permit is ready: _____		
Mailing address: _____		
<p>We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE:</p>		

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: Peter D. [Signature] Date: 6/2/04

This is NOT a permit, you may not commence ANY work until the permit is issued. If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department on the 4th floor of City Hall

N**NORRIS, INC.****LOSS PREVENTION****BUILDING AUTOMATION****COMMUNICATIONS*****SUBMITTAL
PACKAGE***

Project: Eighth Maine Memorial
Peaks Island
Portland, Maine

System: Fire Alarm/Security (Ademco)

**Submitted
By:** Norris Inc.
2257 Broadway
South Portland, Maine 04106
Telephone: (207)-883-3473

**Project
Manager:** Peter Reed

**Installing
Contractor:** Norris Inc Electric
South Portland, Maine

Date: May 28, 2004

Norris, Inc.
 2257 W. Broadway
 South Portland, Maine 04106
 800-370-3473

13048

Equipment List : Status: 6 Wait Orders*
 05/28/2004 Page: 1 Time: 12:00 PM
 Purchase Order #: RON ADAMS

EIGHTH MAINE MEMORIAL ASSOCIATION
 RON ADAMS
 13 EIGHTH MAINE AVE.
 PEAKS ISLAND, ME 04108

EIGHTH 207-807-2635

DateIn 04/28/2004 DateDue 05/26/2004
 CSRRep PDR

Signature: _____ Date: _____

Product: B
 List: PDR Sales PDR


**Eighth Maine Memorial, Peaks
 Island**

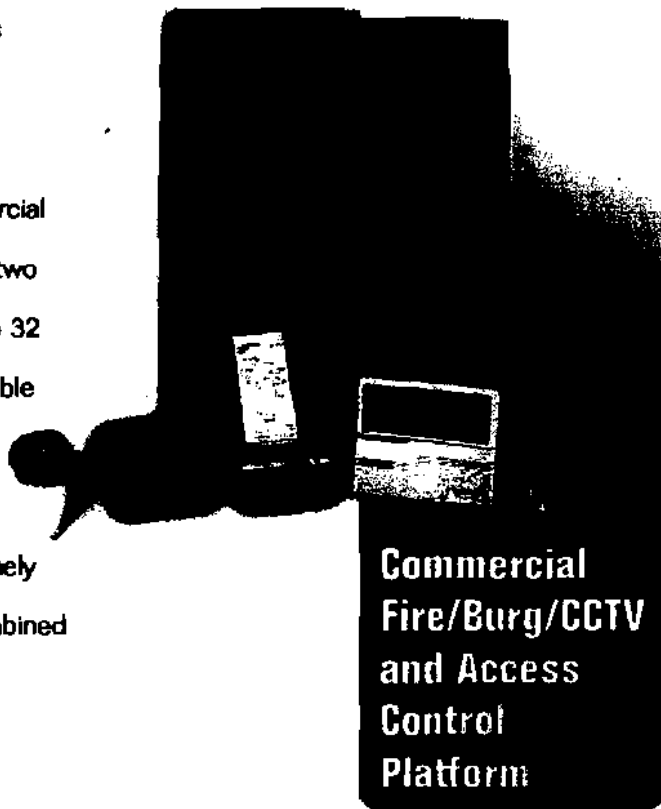
Qty	Description	Shipped Qty	Location
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Fire/Security Alarm System:



- 1 ADI-VISTA-32FB, Ademco Vista 32FB alarm control panel, 8 zone
- 1 SPECIAL-SPECIAL, Zone expander 4209U
- 1 Notifier-PS-1270, Battery, 12 volt, 7 AH
- 2 ADI-MO-RJ31X, DACT RJ31X UL Telco Jack
- 2 ADI-MO-362, Dact Cord (2 ft) - (91628)P TO Y RJ
- 1 ADI-6139, Alpha/LCD Keypad
- 6 Notifier-2400, Smoke Detector 2-Wire (Photoelectric)
- 2 Notifier-5602, Heat detector 200 degree fixed and rate-of-rise
- 4 Notifier-5601, Heat detector 135 degree fixed and rate-of-rise
- 3 WHEELock-NS-121575W-FR, Horn/strobe 12vdc 15/75CD red wall mount
- 3 WHEELock-RSS-121575W-FR, Light Only 12 VDC, 15/75 CANDELA
- 7 RMS1TKL, Pullstation, Red Die Cast (Notifier key)
- 17 SPECIAL-SPECIAL, Firax 120VAC/9VDC smoke detector
- 4 ADI-SR-6155CT, Motion Detector , cold temp
- 2 ADI-MA-GD1, Propene gas detector, GD2A

VISTA-32FB

Designed to integrate seamlessly with CCTV, access control and ADEMCO's full range of fire and burglary components, the VISTA-32FB provides the ultimate protection of life and property. The UL listed Commercial Fire and Burglary Control Platform can control up to two separate partitions independently, and supports up to 32 zones/points using hardwired, wireless and addressable  technologies. A diverse line of ADEMCO initiating devices, notification circuits, digital dialers, keypads, RF receivers and relays support this extremely powerful control platform. Advanced technology, combined with simple end-user operation, make the versatile VISTA-32FB the smartest choice for the most demanding applications.



FEATURES:

- Supports addressable  access control points using VistaKey (1 to 4 doors)
- Supports up to 16 doors of access control using Vista Gateway Module (VGM)*
- Supports CCTV applications with the new VistaView-100 CCTV Switcher Module
- Identifies the point or zone of a fire using the new FSA-8/FSA-24 Fire System Annunciator
- Supports eight hardwired zones, 24  addressable points/zones, or 32 wireless points/zones
- Can control two separate areas (partitions) independently
- Stores up to 512 events and can accommodate 75 user codes
- New E2 Software Simplifies Programming
- Easily programmed and maintained with newly upgraded Compose Downloader Software
- Automatic smoke detector sensitivity maintenance testing
- Commercial UL Wireless Fire and Burg

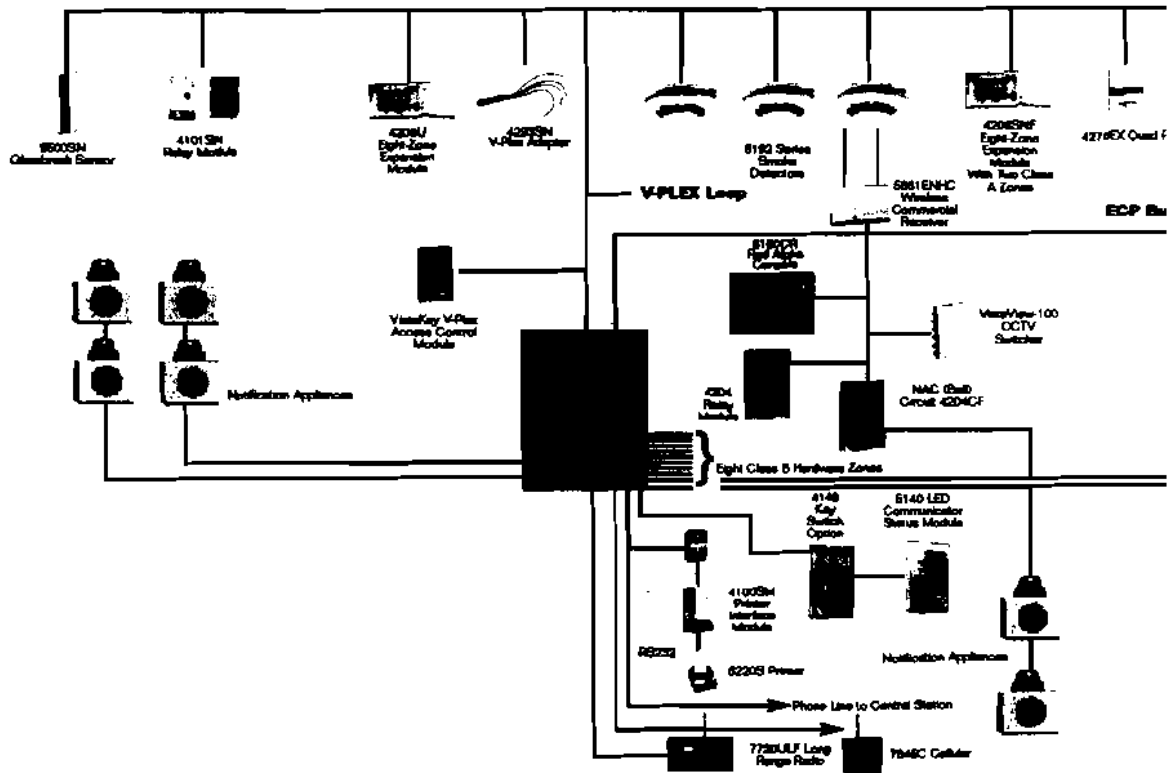
* Connects to Northern Computer's PassPoint Access Control Systems. Maximum 32 doors.

**ADEMCO
GROUP**

VISTA-32FB

Additional Features

- Notification Appliance Circuits (two):
 - Programmable
 - Temporal code compliant
 - Individually silenceable
- Programmable on-board auxiliary relay
- SIA false alarm reduction features:
 - Exit error logic
 - Exit delay reset
 - Cross zoning
 - Call waiting defeat
 - Recent close report
- Supports commercial hardwired, addressable **VIZZ** polling loop and wireless zones
- Hardwired zones
 - Provides nine style B hardwired zones
 - EOLR supervised for Fire and UL burglary installations
 - Supports N.O or N.C. sensors
 - Individually assignable to one or all eight partitions
 - Up to 16 two-wire smoke detectors each on zone one and two (32 total)
 - Up to 50 two-wire glassbreak detectors on zone eight
- Patented addressable **VIZZ** polling loop technology
 - Supports up to 24 two-wire **VIZZ** zones/points
 - Global polling technology for faster processing
 - Increased current draw capacity (128mA)
 - Supervised by panel
 - Individually assignable to partitions, notification circuit (bell) output or aux relay
 - 4,000 ft capability without the use of shielded cable
 - Extender/Isolation bus module
- Two-wire smoke detector zone/group expansion module adds two or four zones
- Eight zone - Class A and B extender module
- Eight zone - Class B extender module
- One zone supervised contact monitor module
- UL Listed wireless expansion
 - Supports up to 32 wireless zones/points using 5881ENHC Receiver
 - Supervised by control for check-in signals
 - Tamper protection for transmitters
 - Individually assignable up to eight partitions
 - Supports UL664/NFPA approved wireless smoke detectors
- Event reporting
- Local printer of access or VISTA related event
- Scheduled uploading of events to central station
- Up to four doors using VistaKey **VIZZ** Access Control Supported by a diverse line of ADEMCO Initiating devices, the VISTA-32FB is well suited for a variety of smaller to medium sized applications as an integrated fire and burglary control—including restaurants, small retail stores and shops, churches and synagogues, strip malls, larger residences and small factory and warehouse environments.
- Stored events for one call retrieval
- Communication
 - Phone mapping by zone response type
 - Supports VIP Interactive Phone Voice Module
 - Panel operation during download
 - Uploading equipment list to central station
 - Communication to PassPoint via Vista Gateway Module



Applications

The VISTA-32FB control is well suited for a variety of applications as an integrated fire and burglary control. A diverse line of ADEMCO initiating devices supports this extremely powerful control. Some of the applications supported are: medical and professional buildings, churches or synagogues, office buildings, schools, strip malls, larger residences and factory or warehouse environments.

Installation

The VISTA-32FB alarm system has been designed to mount both quickly and easily. It meets all applicable requirements for UL commercial fire and burglary installations.

Specifications

Electrical

- Primary power: 18VAC @ 72VA ADEMCO No. 1451
- Quiescent current draw: 350mA
- Backup battery:
 - 12VDC, 7AH min to 34.4AH max
 - Lead acid battery (gel type)
- Alarm power: 12VDC, 1.7A max for each notification (bell) circuit output
- Aux. standby pwr: 12VDC, 1A max
- Total power: 2.3A at 12VDC, 3.4A at 24VDC from all sources
- 24 hours with 1A standby load or 60 hours with 205mA max standby load using 34.4AH battery
- Fusing: Battery input, aux. and notification (bell) circuit outputs are protected using PTC circuit protectors. All outputs are power limited.

Main Dialer

- Line seize: Double Pole
- Ring equiv.: 0.7B
- Formats: ADEMCO Low Speed, ADEMCO 4+2 Express, ADEMCO High Speed, ADEMCO Contact ID, Sescoc and Redionics

Cabinet dimensions:

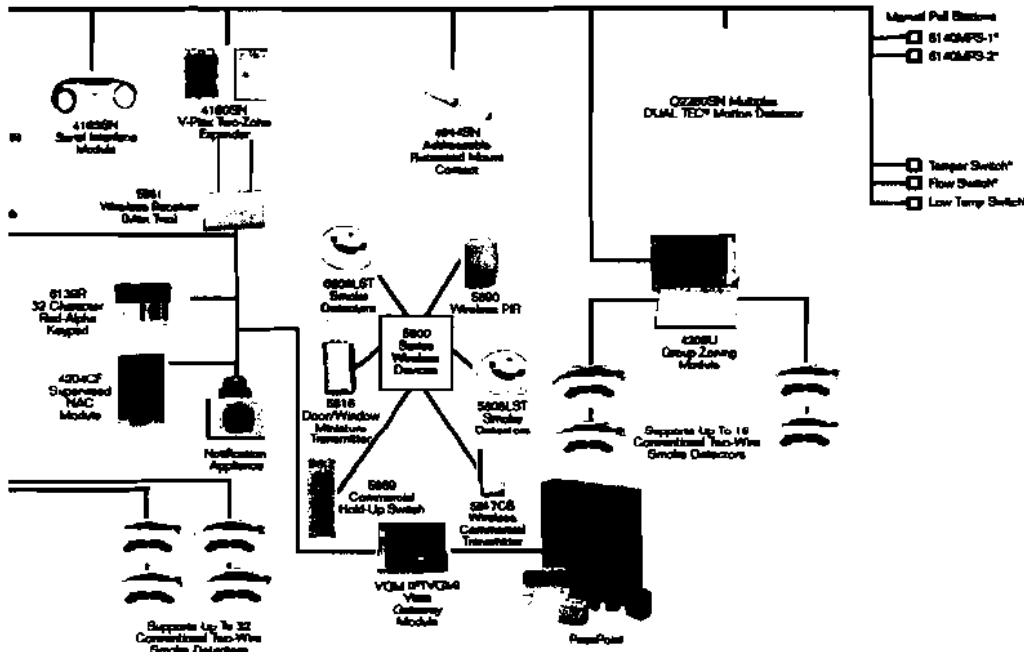
- 14.5"H X 12.5"W X 3"D

Environmental:

- Storage temp: -10°C to 70°C
- Operating temp: 0°C to 50°C
- Humidity: 85% RH
- EMI: Meets or exceeds the following requirements:
 - FCC Part 15, Class B Device
 - FCC Part 68
 - IEC EMC Directive

Agency Listings

- Burglary
- FCC Part 15, Class B; FCC Part 68
- UL Residential and Commercial
- UL864/NFPA Local Fire
- UL864/NFPA Central and Remote Station Fire
- UL609 Grad A Local Mercantile Premises/Local
- Mercantile Safe and Vault
- UL365 police station connected burglar alarm
- Grade AA Service (with LRR Model 7920SE)
- UL611/UL610 Central Station Burglar Alarm
- California State Fire Marshal
- FM



VISTA-32FB

SPECIFICATIONS:

Compatible Devices

See ADEMCO Group control accessories compatibility chart for complete list

Auxiliary devices

- 4204 - Relay Module, four form C contacts
- 4204CF - Two supervised output circuits
- 5140DLM, Supervised Dialer
- 5881 Series - RF Receiver supporting 5800 wireless detectors
- 6160CR - Red Alpha Keypad
- 6139R - Red Alpha Keypad/annunciator
- 6220S - System printer used with 4100SM serial module
- FSA-8, FSA-24 Fire Annunciators

Two-wire smoke detectors conventional

- System Sensor smoke detectors

Horns/Strobes

- System Sensor Notification Appliances

Manual Pull Stations

- 5140MPS-1
- 5140MPS-2

V-Plax (addressable) Devices

- 4101SN Relay Zone Module
- 4190SN Remote Point Module
 - two zones
- 4190WH
- 4193SN Two Zone Serial Interface Module
- 4208U Loop Expansion Module
 - eight zones
- 4208SNF Eight Zone/2 Class A/6 Class B Expander Module
- 4209U Group Zoning Module
 - two/four zones
- 4293SN One Zone Serial Interface Module
- 4297 Isolation/Extender Module

CCTV

- VistaView-100-CCTV Switcher Module

V-Plax (addressable) Smoke Detectors

- 5192SD
- 5192SDT

Vista Interactive Phone Modules

- 4286 Voice Module

Passive Infrared Detectors

- 998MX
- 4275EX-SN
- 4278EX-SN
- QUEST2260SN

V-Plax (addressable) Contacts

- 4194WH, 4193SN
- 4939SN-WH
- 4944SN-WH
- 4959SN

Glassbreak Detectors

- 9500SN

Long Range Radio

- 7720ULF
- 7845C Cellular Radio

Upgraded software

- Upgraded Compass Downloader Windows compatible

Wireless Devices

- 5804 - Wireless Key
- 5804BDV - Bi-directional with voice
- 5804BD - Bi-directional Key
- 5808C - Wireless Smoke Detector
- 5816 - Door/Window Transmitter
- 5819 - Shock Sensor
- 5827BD - Bi-directional Keypad
- 5849 - Glassbreak Detector
- 5890 - PIR

Access Control

- VistaKey V-Plax (addressable) Access Control
- VistaKey-SK Starter Kit
- VistaKey-EX Expansion Kit
- VGM Vista Gateway Module to PassPoint Access Control (Northern Computers)

Commercial Wireless Devices

- 5808LST - Wireless Smoke Detector
- 5809 - Wireless Heat Detector
- 5817CB - Wireless Commercial Transmitter
- 5869 - Hold up Transmitter
- 5881ENHC - Commercial Fire/Burg Receiver

**Commercial
Fire/Burg/CCTV
and Access
Control
Platform**

165 Ellen Way Syosset, NY 11791
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ADEMCO is an ISO9001 Registered Company

**ADEMCO
GROUP**

ORDERING:

Part No.	Description
VISTA-32FB	Commercial Fire and Partitioned Burglary Alarm Platform

VISTA-32FB

ADEMCO

Additional Features

- Notification Appliance Circuits (two):
 - Programmable
 - Temporal code compliant
 - Individually addressable
 - Programmable on-board auxiliary relay
 - 80A line alarm reduction feature
 - Exit delay light
 - Exit delay reset
 - Green zoning
 - Call waiting delay
 - Repeat close report
- Supports commercial hardware, addressable VISTA calling loop and wireless zones
- Hardwired zones
 - Provides nine alpha B hardwired zones
 - BOUR supervised for fire and UL burglary installations
 - Supports NO or N.C. contacts
 - Individually assignable to one or all eight partitions
 - Up to 18 two-wire smoke detectors within zone one and two (28 total)
 - Up to 80 two-wire glassbreak detectors on zone eight
 - Potential addressable VISTA™ polling loop technology
 - Supports up to 34 two-wire VISTA™ zones/points
 - Global polling technology for faster processing
 - Increased current drive capacity (120mA)
- Supervised by panel
 - Individually assignable to partitions, notification circuit fault output or air relay
 - 4,000 ft capability without the use of twisted cable
 - Extender/Resistor bus module

Two-wire smoke detector zone/group expansion module

- Eight zone - Class A and B extender module
- Eight zone - Class B extender module
- One zone supervised contact monitor module
- UL Listed wireless expansion
 - Supports up to 32 wireless zones/points using 8811EMC Receiver
 - Supervised by control for detection signals
 - Temporal protection for transmitters
 - Individually assignable up to eight partitions
 - Supports UL864/NFPA approved wireless smoke detectors
- Event reporting
 - Local printer of address or VISTA related event
 - Scheduled uploading of events to central station
 - Up to four doors using VisualKey™ Access Control
- Supported by a diverse line of ADEMCO polling devices. The VISTA-32FB is well suited for a variety of smaller to medium sized applications as an integrated fire and burglary control, stores and shops, churches and synagogues, small retail and burglary control—parking restaurants, strip malls, large residences and small history and warehouse environments.
- Banned areas for one call return
- Communication
 - Phone ringing by zone response type
 - Supports VP Intrusion Phone Note Module
 - Panel operation during download
 - Uploading equipment list to central station
 - Communication to PanelPort via Video Gateway Module

Applications

The VISTA-32FB control is well suited for a variety of applications as an integrated fire and burglary control. A diverse line of ADEMCO polling devices supports the extremely powerful control. Some of the applications supported are: residential and professional buildings, churches or synagogues, office buildings, schools, strip malls, large residences and factory or warehouse environments.

Installation

The VISTA-32FB alarm system has been designed to meet both quality and safety. It meets all applicable requirements for UL, commercial fire and burglary installations.

Specifications

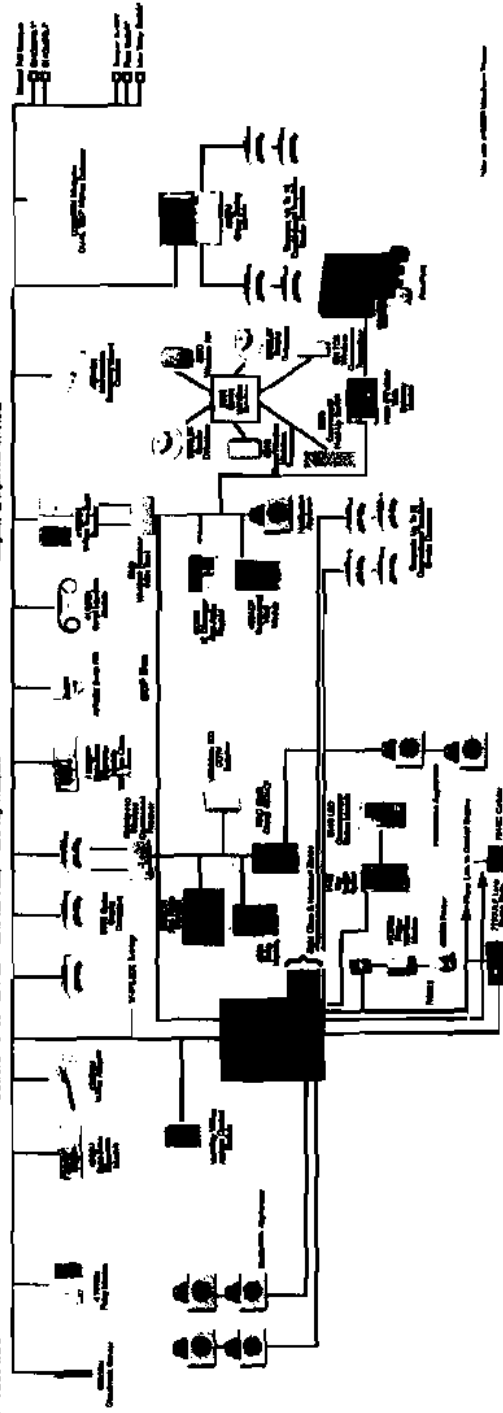
- Classification
 - Primary power: 18VAC @ 79VA ADEMCO No. 148
 - Quiescent current: draw: 350mA
 - Backup battery:
 - 12VDC, 7Ah min to 34-44Ah max
 - Lead acid battery type lead
 - Alarm power: 12VDC, 1.7A max for each notification load circuit output
 - Aux. standby power: 12VDC, 1A max
 - Total power: 3.3A at 12VDC, 3.6A at 24VDC
 - 24 hours with 1A standby load or 60 hours with 200mA max standby load using 34.4Ah battery
 - Fusing: Safety input, aux. and notification load circuit outputs are protected using PTC circuit protectors. All outputs are power limited.

Main Options

- Line status Double Pole
- Ring signal: 0.7B
- Form: ADEMCO Low Speed, ADEMCO 4+2 Express, ADEMCO High Speed, ADEMCO Contact ID, Remote and Redundant
- Cabinet dimensions
 - 14.5" H X 12.5" W X 3" D
- Environmental
 - Storage temp: -10°C to 70°C
 - Operating temp: 0°C to 60°C
 - Humidity: 5% to 95%
 - EMI: Meets or exceeds the following requirements:
 - FCC Part 15, Class B Device
 - FCC Part 68
 - IC EAC Directive

Agency Listings

- Burglar
 - FCC Part 15, Class B, FCC Part 68
 - UL Residential and Commercial
 - UL864/NFPA Local Fire
 - UL864/NFPA Central and Remote Station Fire
 - UL880 Class A Local Microcable Premises/Local
 - Mercantile Safe and Vault
 - UL308 public station controlled burglar alarm
 - Double AA Service (with LRR) Model 792222D
 - UL811/UL810 Central Station Burglar Alarm
 - California State Fire Marshal
 - FM



Honeywell

→

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ADEMCO Products

ADEMCO > Expansion Devices and Accessories > 4209U

— Honeywell Security Pro

4209U

Brochure

**V-Flex Group Zoning Remote Point Module**

The 4209U Group Zoning Module streamlines large or extra system installation. In retrofit applications, installers can utilize hardwired smoke detectors (UL Compatibility Listed) and will expand system-wide smoke detector capability and capacity. 4209U also offers flexible zone configurations to meet the varied demands of commercial applications.

- Combines two-wire smoke detectors from an area of protected premises into group zones
- Can be attached remotely or at the panel
- All loops are EOLR supervised (2K, supplied)
- Provides power and supervision for two-wire industry smoke detectors (review UL compatibility listing)
- Each loop can support up to 16 smoke detectors in the grouped mode, or 21 smoke detectors in the grouped mode
- Supports four-wire smoke detectors
- Uses two or four V-Flex addresses
- Supports either dip switch or serial number application
- UL864 Listed NFPA 72 compliant
- Separate DC input, no current drain from primary V-Flex
- Can greatly expand smoke detection coverage cost

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July 7, 2000

DN-1109 • E-200

PS Series Batteries

Section: Power Supplies

GENERAL

Power-Sonic PS Series batteries provide secondary power for the whole series of NOTIFIER fire alarm control panels.

FEATURES

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

CAPACITY

Battery capacity, expressed in ampere-hours (AH), is the product of a discharge current and the length of time that the current is discharged. Batteries are rated according to their performance during 20 hours of discharge at a constant current.

The rated capacity of a battery is determined by subjecting it to a constant discharge current for 20 hours at 68°F (20°C). After 20 hours the voltage across the terminals is measured. The discharge current which causes a reading of 1.72 volts per cell (5.16 V on a 8 V battery and 10.32 V on a 12 V battery) is called the rated current. This current multiplied by 20 is the rated capacity of the battery.

APPLICATIONS

Use the PS Series batteries to provide backup power for control panels. Select batteries based on current requirements for your system and the capacity of its charger. These batteries can be used over a temperature range of -76°F to +140°F (-60°C to +60°C).

CONSTRUCTION

The sealed construction of the Power-Sonic battery allows trouble-free, safe operation in any position. There is no need to add electrolyte, as gases generated during overcharge are recombined in a unique "Oxygen Cycle." The battery is sealed, leakproof, and maintenance-free. The case is of high-impact materials with high resistance to chemicals and flammability.

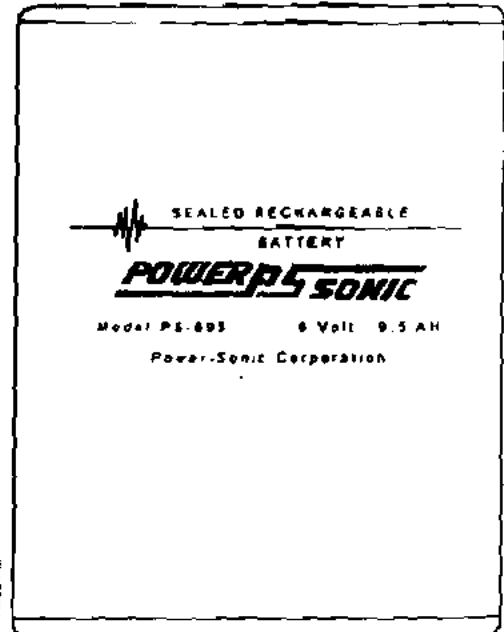
INSTALLATION

All panels have space reserved for batteries. See the appropriate panel installation manual for battery size restrictions. Typical inter-connection diagrams are shown in the literature accompanying each control panel.



LISTED

MH14328 (S)



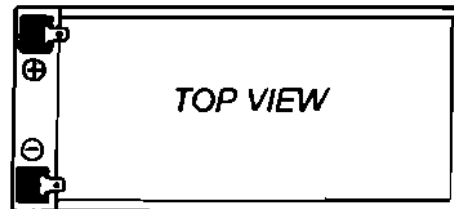
The PS-695 Battery

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



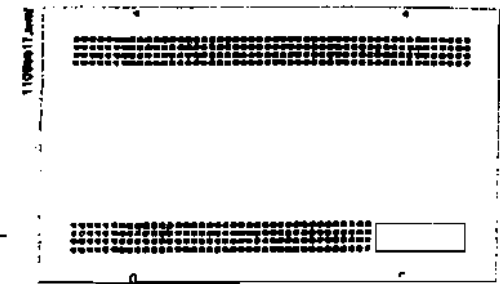
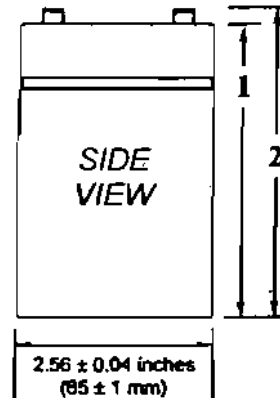
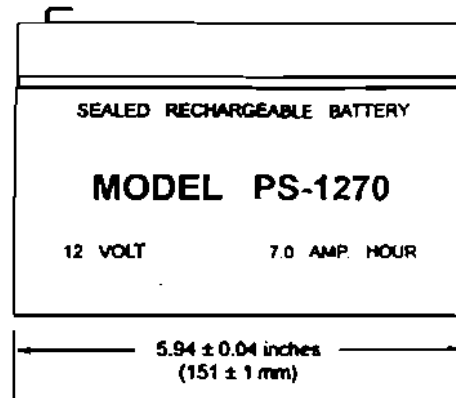
NOTIFIER One Fire-Lite Place, Northford, Connecticut 06472

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HEIGHT 1 BELOW
3.70 ± 0.08 inches
(94 ± 2 mm)

HEIGHT 2 BELOW
3.86 ± 0.08 inches
(98 ± 2 mm)



BB-17: Optional Battery Backbox
14-1/2" W x 8-1/4" H x 4-3/4" D
(mm: 368.3 W x 209.55 H x 120.65 D)
For remote mounting of two 12-volt PS-12180 batteries.

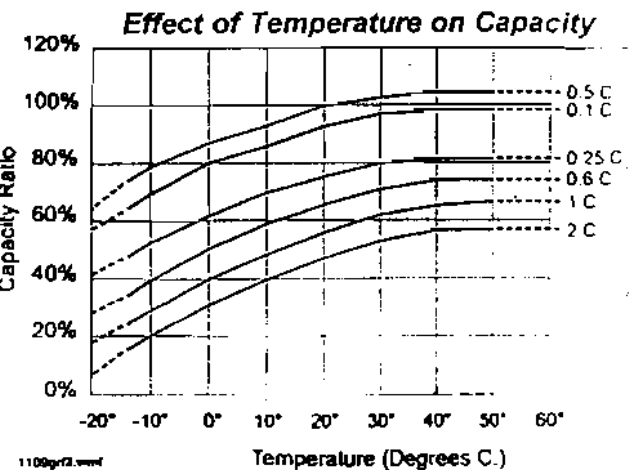
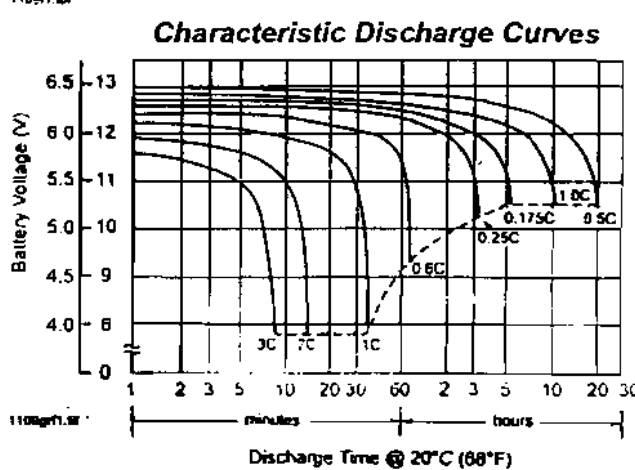


BB-55: Optional Battery Backbox
See CHG-120 data sheet for details.

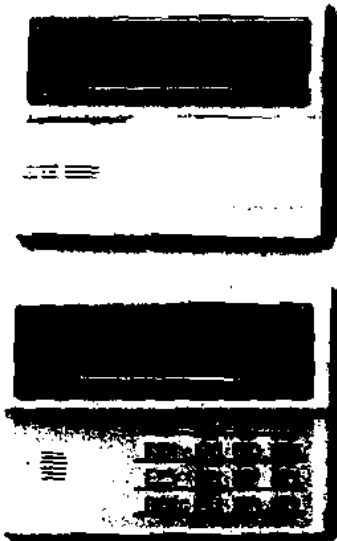
ENGINEERING SPECIFICATIONS

The fire control panel shall be equipped with secondary power provided by gelled-electrolyte batteries. The batteries shall be maintenance-free and shall be capable of powering the system in a manner and for a length of time determined by the governing regulations and the authority having jurisdiction.

MODEL	Nominal Voltage V	Nominal Capacity @ 20 hr. rate A.H.	Discharge Current @ 20 hr. rate mA	DIMENSIONS									
				Width		Depth		Height		Height over terminal		Weight	
				in.	mm.	in.	mm.	in.	mm.	in.	mm.	lbs.	kg.
PS-695	6	9.5	475	4.26	108	2.75	70	5.54	141	5.54	141	4.9	2.2
PS-1250	12	5.0	250	3.54	90	2.76	70	4.02	102	4.21	107	4.1	1.9
PS-1270	12	7.0	325	5.94	151	2.56	65	3.70	94	3.86	98	5.7	2.6
PS-12120	12	12	600	5.94	151	3.86	98	3.70	94	3.86	98	8.8	4.0
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	6.60	168	8.20	208	9.45	240	39.7	18.0
PS-121000	12	100	5000	12.00	305	6.60	168	8.20	208	9.45	240	65.7	29.8



6139



**New designer
styled keypad
with a 32
character custom
English display
and removable
door.**

Ordering Information	
Part No.	Description
6139	Keypad

The 6139 is an attractive, easy to use keypad that takes the guess work out of operating your security system. This console is designed in white to blend in with most surroundings. You can use it with the door closed to hide the keys, or remove the door completely to reveal them.

Everything in plain English

A sophisticated and versatile keypad, the 6139 has a large, two line, 32 character, backlit customized English language display that indicates warnings and zone messages - there are no confusing blinking lights.

An easy-to-use information center

This smartly-styled console is the system's information center, providing the status of your security system at-a-glance, with all information clearly displayed in a bright, extra large liquid crystal display (LCD) window. Arranged in a telephone touchpad configuration, the keypad is easy to understand and operate. Keys are backlit to make nighttime operation possible.

Customized to meet your needs and preferences

Your system is programmed to your specific needs. Each protection zone is custom-programmed into the control by your alarm installer and is identified by name. You are instantly aware of the status of your security system. Depending on your system, different emergency situations can signal a 24-hour central station in case of a fire, police, or personal problem.

Built-in self-help

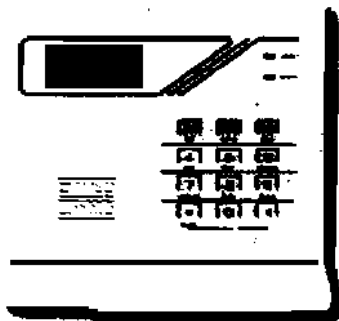
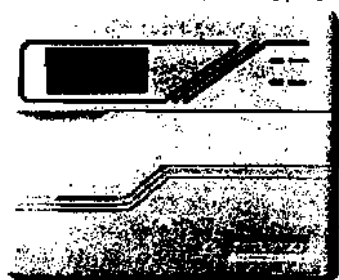
A self-help feature (on select controls) reviews the basic system functions and operation, displaying them in the console window; especially helpful to new users. It is activated by simply pressing any desired function key for five seconds.

Keypad features:

- ◆ New attractively designed white keypad with removable door
- ◆ New easy-touch plastic white keys that are backlit for easy visibility
- ◆ Large type that can display 2 lines of English text
- ◆ Separate keys for emergencies
- ◆ Built-in sounder - makes audible "beeps" for entry/exit delays, system status and other alarm conditions
- ◆ All protection zones and system events are displayed in simple English words
- ◆ User-friendly - all system functions are clearly marked on the touch pad. Operation is simplified by using a uniform "security code + command" entry to perform any desired function

Keypad

6128



**New designer
styled keypad has
backlit keys, a
fixed English
display and
removable door.**

Ordering Information

<u>Part No.</u>	<u>Description</u>
6128	Keypad

The 6128 offers great looks, ease of use, and brings protection to your home and possessions. The compact, economical 6128 keypad provides a fixed English display plus many standard features found only in more expensive keypads.

An easy-to-use information center

This designer styled keypad provides a status report of your security system at-a-glance. Information is displayed in fixed words through a liquid crystal display (LCD) - there are no confusing symbols or blinking lights. The keypad is designed in the form of a telephone touchpad for ease of operation and flexible control.

Customized to meet your needs and preferences

Your system is programmed to your specific needs. Depending on your system, different emergency situations can be programmed so that a signal will be sent to a 24-hour central station in case of a fire, police or personal emergency, simply by depressing the appropriate keys.

Keypad features:

- ◆ New attractively designed white keypad with removable door
- ◆ New easy-touch, white rubber keys are backlit.
- ◆ Zone location label can be filled out to identify protected areas quickly
- ◆ Built-in Piezo sounder - makes audible "beeps" for entry/exit delays, system status and other alarm conditions
- ◆ Compact size can be used anywhere unobtrusively - blends in with any decor
- ◆ User friendly - all system functions are clearly marked on the touch pad. Operation is simplified by using a uniform "security code + command" entry to perform any desired function.



July 27, 2000

DN-1190-1-115

2400 Series 2-Wire Photoelectric Smoke Detector with Optional Horn & Thermal

Section: Conventional Initiating Devices

GENERAL

The System Sensor 2400 Series photoelectric detectors are specifically designed to meet the stringent performance requirements of industrial and municipal fire detection/alarm systems. The design of these detectors emphasizes ease of installation and field maintenance. The new AT/AIT models add built-in audible signaling and optional isolation of the thermal.

FEATURES

- Unique optical sensing chamber:
 - Superior signal-to-noise ratio.
 - Built-in signal processing.
 - 3.0% nominal sensitivity.
- Removable cover for field cleaning.
- Visible LED "blinks" in standby.
- Sealed against dirt, insects, and back pressure.
- Built-in 135°F (57°C) thermal (models TH, AT, AIT only).
- Three-year limited warranty.
- Field metering of detector sensitivity (using MOD400R).
- Built-in test capability.
- Low standby current.
- Twist-on mounting bracket with tamper option.
- Designed for direct surface or electrical box mounting.
- Built-in 85 dBA piezoelectric horn (models AT and AIT only).
- Insect-resistant screening (0.020"/0.508 mm openings).
- Isolated or integrated operation of thermal available.
- SEMS screws for easy wiring.

APPLICATIONS

Use to contribute to life safety, fire protection, and property conservation. Photoelectric detectors are recommended in areas where slow smoldering fires are likely to ignite. In areas where small combustion particles are usually present from fork-lift trucks, cooking stoves, etc., they are less likely than ionization detectors to produce false alarms.

CONSTRUCTION AND OPERATION

All System Sensor 2400 Series photoelectric smoke detectors contain a unique optical sensing chamber designed to sense the presence of smoke particles produced by a wide range of combustion sources and meet performance criteria designated by UL 268. A new custom integrated circuit incorporates signal processing to reduce false alarms and sample/hold circuitry to provide easy field metering of sensitivity. Additional key features of AT/AIT models include available isolation of the thermal for separate monitoring, and a built-in horn.



LISTED
S911



CS308 (2400A,
2400THA only)



California
State Fire
Marshal

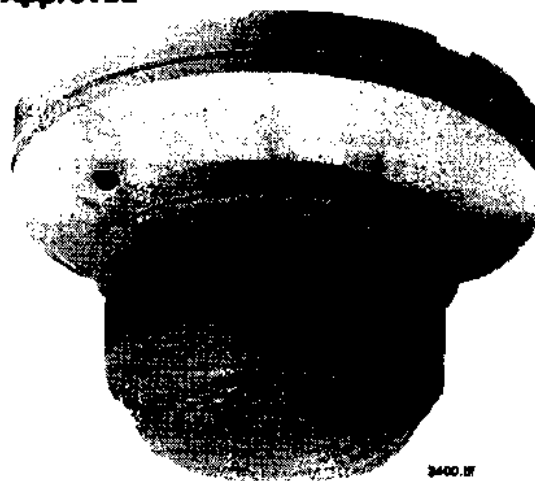
7272-1209:103
(2400 & 2400TH)
7272-1209:134
(2400AT & 2400AIT)



Approved

MEA

427-91-E Vol. III



2400.H

The built-in piezoelectric horn produces an interrupted 85 dBA tone. The horn operates when the unit senses smoke, or when the thermal reaches its alarm point (integral thermal models only).

INSTALLATION

Model 2400 detectors are designed for systems use with UL listed control panels. See panel Compatibility Chart to determine maximum number of detectors per zone. Easy to install and maintain, this detector is designed for direct surface mounting (mounting bracket included), or mounting to a 4" octagon or smaller box. Easy-to-wire screw terminals allow fast and simple field wiring of in, out and remote annunciator connections.

Consult control panel specifications for the maximum allowable loop resistance for the particular control panel to be used.

To prevent wiring mistakes, observe polarities and make certain that each conductor is identified. A copy of Installation and Maintenance Instructions is packaged with each detector. For further information, refer to NFPA 72 and to Local Authority Having Jurisdiction.

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NOTIFIER

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QUALITY MANAGEMENT

MAINTENANCE

The 2400 Series has been designed to seal the sensing chamber from back-pressure air flow, dust, dirt, and insects. The back of the detector is sealed. The chamber is protected by a fine mesh screen. **Testing** is accomplished by insertion of a 0.1" (2.54 mm) max. diameter tool. If **cleaning** is required, it is easy to remove the cover and obtain access to the screen and chamber to perform a thorough cleaning.

ENGINEERING SPECIFICATIONS

Smoke detector shall be a photoelectric type (model 2400) or a combination photoelectric/thermal (model 2400TH) with thermal sensor rated at 135°F (57°C) as manufactured by System Sensor. Wiring connections shall be made by means of SEMS screws. The detector will have a visible LED which will blink in standby and latch on in alarm. The detector shall have a nominal sensitivity of 3% per foot as measured in the UL smoke box. The detector screen and cover should be easily removable for cleaning. It shall be possible to perform a sensitivity and functional test without the need of generating smoke. Detector circuitry shall perform a self test on the sensing chamber and internal electronics every 40 seconds. If circuitry fails, the detector LED shall stop blinking. The detector shall have a mounting bracket that allows for mounting to a 3-1/2" (88.9 mm) or 4" (101.6) octagonal or a 4" square electrical box.

PRODUCT LINE INFORMATION

Model	Description
2400	Photoelectric smoke detector, two-wire, surface mount.
2400TH	Photoelectric smoke detector with built-in 135°F (57°C) fixed-temperature thermal, two-wire, surface mount.
2400AT	Photoelectric smoke detector with integral 135°F (57°C) fixed-temperature thermal, and 85 dBA horn, two-wire, surface mount.
2400AIT	Photoelectric smoke detector with isolated 135°F (57°C) fixed-temperature thermal, and 85 dBA horn, two-wire, surface mount.
MOD400R	Field-test module for all of the System Sensor 2400 Series smoke detectors.
RA400Z	Remote annunciator (LED). Mounts to single-gang box.

NOTES for GENERAL SPECIFICATIONS:

- Control panels must limit current to 100 mA or less.
- Maximum air velocity for photoelectric sensor operation is 3,000 feet (914.4 m) per minute.
- Relative humidity range: 10 to 93% (non-condensing).

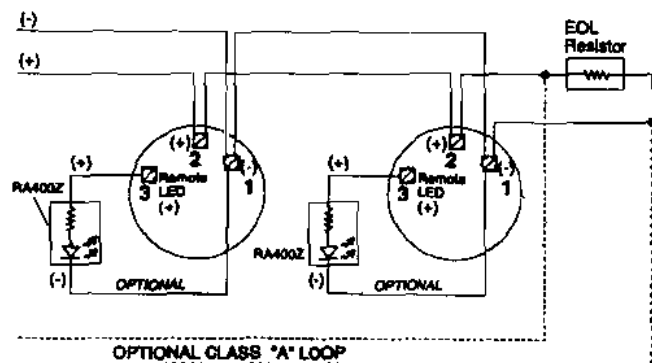
GENERAL SPECIFICATIONS

119011.D1

	Model 2400	Model 2400TH	Model 2400AT	Model 2400AIT
Control Panel Applications	2-wire	2-wire	2-wire	2-wire
Built-in Thermal	No	Yes	Yes	Yes (Isolated)
Visual LED Local Alarm	Yes	Yes	Yes	Yes
Remote LED Annunciator Capability	Yes	Yes	Yes	Yes
Operating Voltage Range	8.5 to 35 VDC	8.5 to 35 VDC	10 to 32 VDC	10 to 32 VDC
Current Limit, Standby (maximum)	120 μ A	120 μ A	120 μ A	120 μ A
Current Limit, Alarm (typical)	(see NOTE 1)	(see NOTE 1)	15 mA @ 10 V	15 mA @ 10 V
Current Limit, Alarm (maximum)	(see NOTE 1)	(see NOTE 1)	67 mA @ 32 V 48 mA @ 24 V	67 mA @ 32 V 48 mA @ 24 V
Reversed Voltage (non-alarm)	—	—	5 mA @ 10 V 15 mA @ 24 V 19 mA @ 32 V	5 mA @ 10 V 15 mA @ 24 V 19 mA @ 32 V
Alarm Signal	Shunt on power leads.	Shunt on power leads.	Shunt on power leads.	Shunt on power leads.

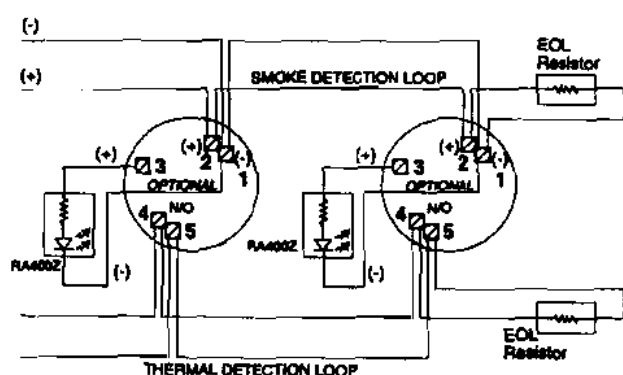
Wiring Diagram: 2400, 2400TH, 2400AT

119001.wmf



Wiring Diagram: 2400AIT

119002.wmf





February 25, 2000

DN-5075 • I-304

HD-600 Heat Detectors

Section: Conventional Initiating Devices

GENERAL

The HD-600 Heat Detector is attractive, durable, and features combination rate-of-rise and fixed-temperature detectors. Heat detectors are available in 135°F (57°C) and 200°F (94°C) temperature ratings.

Rate-of-rise elements detect heat by quickly responding to rapid temperature increase. HD-600 detectors use the same reliable pneumatic rate-of-rise element used in former models, but offer added aesthetic appeal. The pneumatic rate-of-rise element responds to a rapid rise in temperature, approximately 15°F (8°C) per minute, by expansion of air within the sealed chamber faster than it can escape through a calibrated vent. The resultant increase in pressure depresses the diaphragm, causing the electrical contact to close the circuit. HD-600 rate-of-rise units have a wide spacing allowance of 50-foot (15.24-meter) centers. See Specifications table (page 2) for details.

Fixed-temperature elements react to heat by responding to a specific temperature setting. The fixed-temperature element uses a fusible alloy. When activated, the external heat collector drops away to provide quick visual confirmation that the element has operated.

The units protrude only 1-3/8" (34.925 mm) from the ceiling surface with a junction box mounting. They have pleasing contours and an all-white finish that conforms to ceiling aesthetics.

FEATURES

- Rate-of-rise and fixed-temperature.
- One- or two-circuit, normally open.
- Easy installation.
- Low-profile design.
- Visual indication.
- Operation testing.

INSTALLATION

Each detector includes a patented reversible mounting plate. In one position, it easily attaches to a 3-1/4" (82.55 mm) octagonal box or 4" (101.60 mm) junction box.

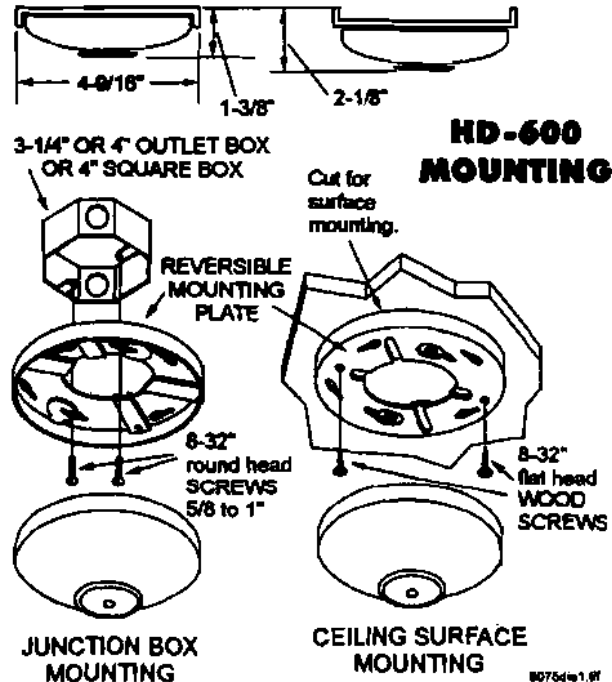
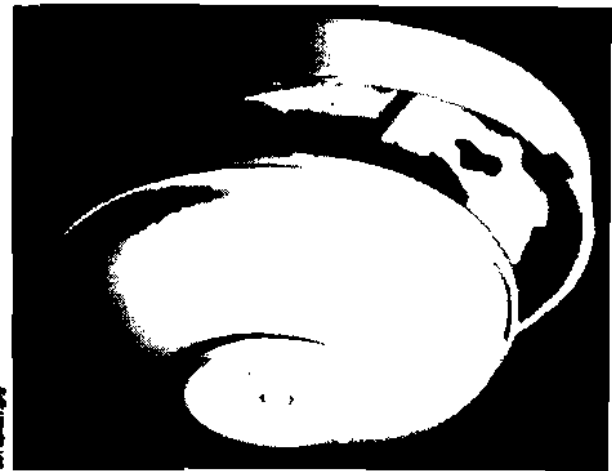
In reverse, the plate can be used for open wiring without a junction box. A 1/4" (6.35 mm) space between detector and mounting surface allows for wire connections. All mounting screws are concealed.

The detector attaches simply to the mounting plate with a push and twist motion. No special tools are required.

The mounting plate is molded of white self-extinguishing thermoplastic rated at 105°C. The plate is extremely strong, yet adapts to uneven mounting surfaces.



California
State Fire
Marshal
7270-0028:170



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NOTIFIER 12 Clintonville Road, Northford, Connecticut 06472





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HD-600 SERIES TESTING METHODS

- Models HD-601/HD-621 and HD-602/HD-622 can be tested by the application of quick heat from any convenient source. A portable hair dryer is recommended. However, do not apply heat that exceeds the fixed-temperature rating of the detector.
- Models HD-603/HD-623 and HD-604/HD-624 cannot be tested. However, the fusible alloy element is generally considered so reliable that testing is not necessary.

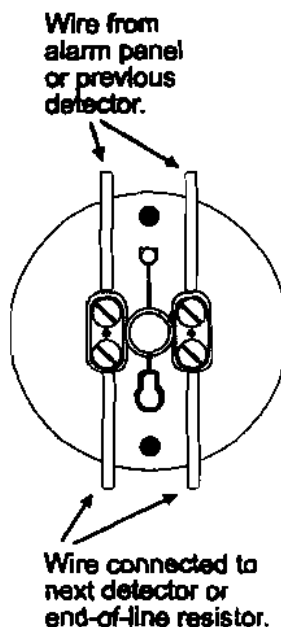
SPECIFICATIONS

5075d1.tbl, 5075dct1.wmf, 5075dct2.wmf, 5075dct3.wmf, 5075dct4.wmf

HD-601 & HD-621	HD-602 & HD-622	HD-603 & HD-623	HD-604 & HD-624
 No marking. Model HD-601 (one circuit) Model HD-621 (dual circuit)	 Gray ring. Model HD-602 (one circuit) Model HD-622 (dual circuit)	 Gray spot. Model HD-603 (one circuit) Model HD-623 (dual circuit)	 Black dot on white. Model HD-604 (one circuit) Model HD-624 (dual circuit)
Rate-of-rise and fixed-temperature 135°F (57°C).	Rate-of-rise and fixed-temperature 200°F (94°C).	Fixed-temperature only 135°F (57°C).	Fixed-temperature only 200°F (94°C).
Application: normal temperature fluctuations and ceiling temperatures not exceeding 100°F (38°C).	Application: normal temperature fluctuations and ceiling temperatures exceeding 100°F (38°C) but not 150°F (66°C).	Application: unusually violent temperature fluctuations and ceiling temperatures not exceeding 100°F (38°C).	Application: unusually violent temperature fluctuations and ceiling temperatures exceeding 100°F (38°C) but not 150°F (66°C).
Maximum spacing allowance* UL: 50 ft. x 50 ft. (15.24 x 15.24 meters). FM: 30 ft. x 30 ft. (9.144 x 9.144 meters).	Maximum spacing allowance* UL: 50 ft. x 50 ft. (15.24 x 15.24 meters). FM: 30 ft. x 30 ft. (9.144 x 9.144 meters).	Maximum spacing allowance* UL: 25 ft. x 25 ft. (7.62 x 7.62 meters). FM: 20 ft. x 20 ft. (6.096 x 6.096 meters).	Maximum spacing allowance* UL & FM: 15 ft. x 15 ft. (4.572 x 4.572 meters).
*Refer to NFPA for application requirements.			

SCREW TERMINALS

Standard Single-Circuit Detector

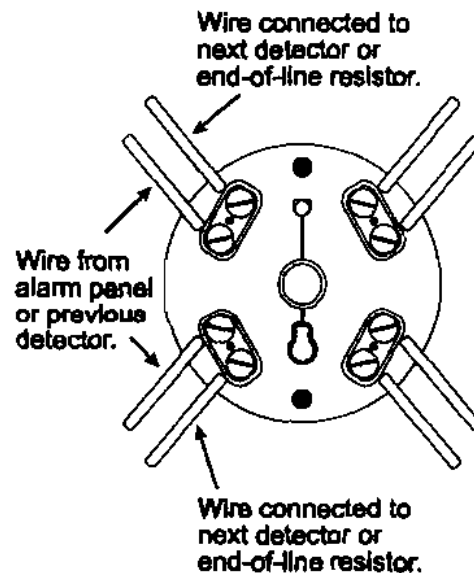


NOTE: All single-circuit models come with one (1) normally open dry contact.

5075dct1.wmf

Dual-Circuit Detector

Used to send two independent signals.



NOTE: All dual-circuit models come with two (2) normally open dry contacts.

5075dct2.wmf

NOTES

Application: Heat detectors should be used for property protection. Reliance should not be placed solely on heat detectors for life safety. When life safety is involved, smoke detectors **MUST** also be used. Detectors must **NOT** be painted.

Battery backup: Heat detectors should be electronically supervised with battery backup at the panel.

Rate-of-rise mechanism: The rate-of-rise mechanism may be subject to reduced sensitivity over time. Annual testing of the rate-of-rise operation is recommended.

ELECTRICAL RATINGS

- 6-125 Volts AC, 3.0 Amp.
- 6-28 Volts DC, 1.0 Amp.
- 125 Volts DC, 0.3 Amp.
- 250 Volts DC, 0.1 Amp.



October 19, 1998

DN-6601 • J-134

Wheelock NS/NS4 Series Horn Strobes and NH Series Horns

Section: Audio/Visual Devices

GENERAL

Wheelock's new devices, the NS/NS4 Series Horn Strobes and the NH Series Horns, feature low current design with reduced inrush. The horn devices provide a selectable continuous horn tone or a temporal pattern (Code 3) tone when constant voltage from a Fire Alarm Control Panel (FACP) is applied. Each tone has two dB settings to choose from. All models (horn only or horn with strobe) may be synchronized when used in conjunction with SM or DSM Sync Modules. Additionally, the horn may be silenced while maintaining strobe activation of the NS/NS4 Series horn-strobe devices. All of these features are achievable with either the patented two-wire NS Series or with the four-wire NS4 Series models.

The NS/NS4 Series horn-strobe devices and the NH horn devices are designed for maximum performance, reliability, and cost-effectiveness while meeting or exceeding the latest requirements of NFPA 72 (National Fire Alarm Code), ANSI 117.1 (American National Standard for Accessible and Usable Buildings and Facilities), and UL Standard 1971 (Standard for Signaling Devices for the Hearing Impaired), and UL 484 (Audible Signal Appliances). NS/NS4 audible strobe devices, when properly specified and installed in accordance with NFPA/ANSI standards, can provide the Equivalent Facilitation allowed under ADA Accessibility Guidelines (ADAAG General Section 2.2) by meeting or exceeding the illumination which results from the ADA-specified strobe intensity of 75 candela at 50 feet (15.24 m). This is an illumination of 0.030 lumens per square foot.

When used with the Wheelock SM or DSM Series Sync Modules, the continuous horn tone produces a synchronized temporal (Code 3) tone. This ensures a distinct temporal (Code 3) pattern when two or more horns are within hearing distance. If not synchronized, the temporal sound could overlap and not be distinctive. Additionally, if strobes on the same circuit are synchronized, this provides the ability to comply with ADA recommendations concerning photosensitive epilepsy and to meet NFPA requirements when installing two or more visual devices within the field of view. All of this, plus the ability to silence the horn, is achieved by using only two wires (NS/NH).

FEATURES

- ADA/NFPA/ANSI compliant. Meets OSHA 29 Part 1910.165.
- Low current draw and reduced inrush.
- Wall-mount only.
- Two selectable tones and dB levels:
 - Continuous tone:* anechoic, 90 or 95 dB; reverberant, 82 or 88 dB @ 24 VDC.
 - Temporal Code 3 tone:* anechoic, 90 or 95 dB; reverberant, 75 or 82 dB @ 24 VDC.
- Patent pending Universal Mounting Plate for single-gang, double-gang, 4" (10.16 cm) square, or 100 mm European backboxes, or Wheelock's SH88 shallow surface backbox.
- No additional trim plates required.



E 5948



CS 243 (NH)
CS 356 (NS/NS4):
15 cd, 75 cd, & 110 cd)



0D7A4.AY



California
State Fire
Marshal
7125-0785:142

MEA

151-92-E



NS/NS4
Horn
Strobe

NH Horn



- Available with 15, 15/75, 30, 75, and 110 candela strobe intensities.
- 15/75 candela wall-mounted strobes are listed at 15 candela under UL Standard 1971 and meet 75 candela intensity on axis for ADA guidelines with low current draw.
- Two versions available: two-wire for both horn and strobe; four-wire model.
- Non-sync and sync in one model (synchronization requires a SM or DSM Sync Module).
- Matching horn in 12/24 volts (selectable).

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CERTIFIED
SYSTEMS & PROCEDURES

GENERAL NOTES

- Strobes are designed to flash at 1 flash per second minimum from 20 to 31 VDC (for 24 VDC models), or 10.5 to 15.8 VDC (for 12 VDC models). Note that NFPA-72 (1996) specifies a flash rate of 1 to 2 flashes per second, and ADA guidelines specify a flash rate of 1 to 3 flashes per second.
- All candela ratings represent minimum effective strobe intensity based on UL 1971.
- NS/NS4 Horn 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 85%.

- NH Series horns are listed under UL 464 for audible signal appliances.

WARNING!

PLEASE READ THESE SPECIFICATIONS AND ASSOCIATED INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING, OR APPLYING THIS PRODUCT. FAILURE TO COMPLY WITH ANY OF THE FOLLOWING INSTRUCTIONS, CAUTIONS, AND 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.

ORDERING INFORMATION

MODEL NUMBER	INPUT VOLTAGE	STROBE CANDELA	MOUNTING OPTIONS*	MODEL NUMBER	INPUT VOLTAGE	STROBE CANDELA	MOUNTING OPTIONS*
NS-2415W-FR	24 VDC	15	B, D, F, G, X	NS4-2415W-FR	24 VDC	15	B, D, F, G, X
NS-241575W-FR	24 VDC	15/75	B, D, F, G, X	NS4-241575W-FR	24 VDC	15/75	B, D, F, G, X
NS-2430W-FR	24 VDC	30	B, D, F, G, X	NS4-2430W-FR	24 VDC	30	B, D, F, G, X
NS-2475W-FR	24 VDC	75	B, D, F, G, X	NS4-2475W-FR	24 VDC	75	B, D, F, G, X
NS-24110W-FR	24 VDC	110	B, D, F, G, X	NS4-24110W-FR	24 VDC	110	B, D, F, G, X
NS-121575W-FR	12 VDC	15/75	B, D, F, G, X	NS4-121575W-FR	12 VDC	15/75	B, D, F, G, X
				NS4-1224-R	1224 VDC	—	B, D, F, G, X
SYNC MODELS**	INPUT VOLTAGE	AVERAGE CURRENT		MOUNTING OPTIONS*			
SM-12/24-R	12 VDC / 24 VDC	0.014 (12 VDC) / 0.025 (24 VDC)		E, N			
DSM-12/24-R	12 VDC / 24 VDC	0.020 (12 VDC) / 0.038 (24 VDC)		W			

NOTES: 1) ALL MODELS are wall-mount and colored in red only. 2) SUFFIXES USED ABOVE: W = Wall mounting; F = Fire lettering; R at end = Red; 4 = 4-wire. EXAMPLES: NS-2415W-FR (2-wire - Wall mounting - Fire lettering, Red); NS4-2415W-FR (4-wire - Wall mounting - Fire lettering, Red). 3) SYNCHRONIZED TEMPORAL (Code 3) TONE is achieved when the "continuous horn tone" is selected and connected to the SM or DSM Sync Modules. Refer to installation instructions for the NS Series (Wheelock #P83518), NS4 Series (Wheelock #P83601), and NH (Wheelock #P83600).

* For descriptions of MOUNTING OPTIONS, refer to NOTIFIER data sheet DN-6111, derived from Wheelock #S7000.

** SM Sync Modules are rated for 3.0 amperes at 12 or 24 VDC; DSM Dual Control Modules are rated for 3.0 amperes per circuit. The maximum number of interconnected DSM modules is twenty (20). Refer to installation instructions for SM (Wheelock #P83123) and DSM (Wheelock #P83177).

NS/NS4/NH Series: average current* - 24-volt models

NS SERIES:	VOLTAGE	NS-2415W	NS-241575W	NS-2430W	NS-2475W	NS-24110W
AVERAGE CURRENT* with Low dBA Setting (90 dBA)	20.0 VDC	0.071 A	0.069 A	0.100 A	0.173 A	0.210 A
	24.0 VDC	0.065 A	0.060 A	0.087 A	0.145 A	0.174 A
	31.0 VDC	0.059 A	0.060 A	0.077 A	0.116 A	0.141 A
AVERAGE CURRENT* with High dBA Setting (95 dBA)	20.0 VDC	0.078 A	0.094 A	0.106 A	0.177 A	0.219 A
	24.0 VDC	0.072 A	0.088 A	0.097 A	0.155 A	0.185 A
	31.0 VDC	0.070 A	0.081 A	0.088 A	0.129 A	0.153 A
NS4/NH SERIES:	VOLTAGE	NS4-2415W	NS4-241575W	NS4-2430W	NS4-2475W	NS4-24110W
AVERAGE CURRENT* STROBE ONLY INPUT	20.0 VDC	0.064 A	0.080 A	0.095 A	0.157 A	0.189 A
	24.0 VDC	0.054 A	0.068 A	0.081 A	0.133 A	0.161 A
	31.0 VDC	0.047 A	0.058 A	0.066 A	0.108 A	0.131 A
AVERAGE CURRENT* Audible Only NS4/NH Input with Low dBA Setting (90 dBA)	20.0 VDC	0.016 A	0.016 A	0.018 A	0.018 A	0.016 A
	24.0 VDC	0.021 A	0.021 A	0.021 A	0.021 A	0.021 A
	31.0 VDC	0.026 A	0.026 A	0.026 A	0.026 A	0.026 A
AVERAGE CURRENT* Audible Only NS4/NH Input with High dBA Setting (95 dBA)	20.0 VDC	0.020 A	0.020 A	0.020 A	0.020 A	0.020 A
	24.0 VDC	0.027 A	0.027 A	0.027 A	0.027 A	0.027 A
	31.0 VDC	0.034 A	0.034 A	0.034 A	0.034 A	0.034 A

NS-121575W average current*

VOLTAGE (12-volt model)	AVG. CURRENT* Low dBA Setting (90 dBA)	AVG. CURRENT* High dBA Setting (95 dBA)
10.5 VDC	0.197	0.199
12.0 VDC	0.172	0.175
15.8 VDC	0.143	0.147

NS4-121575W average current*

VOLTAGE (12-volt model)	STROBE ONLY INPUT	AUDIBLE ONLY NS4/NH INPUT with LOW dBA Settings (90 dBA)	AUDIBLE ONLY NS4/NH INPUT with HIGH dBA Settings (95 dBA)
10.5 VDC	0.189 A	0.011 A	0.016 A
12.0 VDC	0.162 A	0.014 A	0.018 A
15.8 VDC	0.130 A	0.017 A	0.023 A

*Average current per actual Wheelock Production Testing @ 10.5, 12, 15.8, 20, 24, and 31 VDC. For rated average and peak current across the UL listed voltage range for both filtered and unfiltered V_{max}, see installation instructions (Wheelock #P83518).



June 3, 2002

DN-5785 - J-120

Wheelock RSS and RSSP Series Single- and Multi-Candela Strobes and Strobe Plates

Section: Audio/Visual Devices

GENERAL

Wheelock's patented RSS Series Strobes and RSSP Series Strobe Plates have lower current draw and zero inrush while maintaining outstanding performance, reliability, and cost effectiveness. These versatile devices will satisfy virtually all requirements for indoor wall- or ceiling-mount applications.

Strobe options for wall-mount models include 15/75 cd or Wheelock's patented SPECIFIRE™ multi-candela strobe with field-selectable candela settings of: 15, 30, 75, or 110 cd. Ceiling-mount models are available in 15, 30, 75, or 100 cd intensities.

All models may be synchronized when used in conjunction with the Wheelock SM or DSM Sync Modules. 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 meeting the requirements of NFPA 72 (1999).

Wheelock's RSS Series Strobes employ a patented integral strobe mounting plate that can be mounted to single-gang, double-gang, 4" (10.16 cm) square, 100 mm European, or the SHBB surface backbox. If the flush backbox has side or top space between it and the finished wall, the NATP (Notification Appliance Trim Plate) may be used. It provides an additional 0.65" (16.51 mm) of trim for the appliance. An attractive cover plate is provided for a clean, finished appearance on all models.

The RSSP Series Multi-Candela Strobe Plates are a cost-effective way to retrofit required strobe appliances to bells, horns, chimes, multitones, or speakers. They mount easily to standard 4" (10.16 cm) backboxes, or for surface mounting, use with Wheelock's SBL2 surface backbox.

For weatherproof RSS Series model, see Wheelock data sheet S9004.

FEATURES

- ADA/NFPA/ANSI compliant. Meets OSHA 29, Part 1910.165.
- Wall-mount or ceiling-mount models available.
- Wall-mount models are available in 15/75 cd or with field-selectable candela settings of 15, 30, 75, or 110 cd (multi-candela models).
- Ceiling-mount models are available in 15, 30, 75, or 100 cd.
- Low current draw with temperature compensation to reduce power consumption and wiring costs.

SPECIFIRE™ is a trademark of Wheelock Inc. LEXAND is a registered trademark of GE Plastics, a subsidiary of General Electric Company.



LISTED
S5391



CS 356



California
State Fire
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7125-0785:141



Approved

MEA

151-92-E Vol. XIX, XX
Vol. XXIV (RSS-24MCW-FR, -FW)



RSS-24MCW-FR

- Low current draw with temperature compensation to reduce power consumption and wiring costs.
- Strobes produce one flash per second over the regulated voltage range.
- 12 and 24 VDC models with wide new UL "regulated voltage" ranges using filtered (DC) or unfiltered Vrms input voltage.
- Synchronize with Wheelock SM or DSM sync modules.
- Zero inrush above peak.
- Compatible with all Wheelock two-wire products.
- Fast installation with In/Out screw terminals using #12 AWG (3.25 mm²) to #16 AWG (0.75 mm²) wires.
- For RSS Series mounting: patented integral strobe mounting plate for single-gang, double-gang, 4" (10.16 cm) square, or 100 mm European backboxes. Wheelock's SHBB shallow backbox is used for surface mounting.
- For RSSP Series mounting: use standard 4" (10.16 cm) backboxes or for surface mounting, Wheelock's SBL2 surface backbox.

NOTIFIER® is an operation of Honeywell.

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) 484-7181 FAX: (203) 484-7118



NOTIFIER®

12 Clintonville Road, Northford, Connecticut 06472

ISO 9001
CERTIFIED
MANUFACTURING & DISTRIBUTION

GENERAL NOTES

- Strobes are designed to flash at 1 flash per second minimum over the regulated voltage range. Note that NFPA 72 (1999) specifies a flash rate of 1 to 2 flashes per second and ADA guidelines specify a flash rate of 1 to 3 flashes per second.
- All candela ratings represent minimum effective strobe intensity based on UL 1971.
- 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."

WARNING!

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ORDERING INFORMATION

Model Number*	Input Voltage	Reg. Voltage Range VDC/FWR	Strobe Candela (cd)	Average Current** (Amps) @ 24 VDC				Mounting Options***
				15 cd	30 cd	75 cd	110 cd	
Multi-Candela Wall-Mount Strobes:								
RSS-24MCW-FR	24 VDC	16.0 - 33.0	15 / 30 / 75 / 110	0.050	0.081	0.133	0.161	B, D, E, F, G, H, J, N, O, R, X
RSS-24MCW-FW	24 VDC	16.0 - 33.0	15 / 30 / 75 / 110	0.050	0.081	0.133	0.161	B, D, E, F, G, H, J, N, O, R, X
Single-Candela Wall-Mount Strobes:								
RSS-241575W-FR	24 VDC	16.0 - 33.0	15 (75 on axis)	0.065				B, D, E, F, G, H, J, N, O, R, X
RSS-121575W-FR	12 VDC	8.0 - 17.5	15 (75 on axis)	0.170				B, D, E, F, G, H, J, N, O, R, X
Single-Candela Ceiling-Mount Strobes:								
RSS-2415C-FW	24 VDC	16.0 - 33.0	15	0.072				B, D, E, F, G, H, J, N, O, R, X
RSS-2430C-FW	24 VDC	16.0 - 33.0	30	0.102				B, D, E, F, G, H, J, N, O, R, X
RSS-2475C-FW	24 VDC	16.0 - 33.0	75	0.205				B, D, E, F, G, H, J, N, O, R, X
RSS-24100C-FW	24 VDC	16.0 - 33.0	100	0.238				B, D, E, F, G, H, J, N, O, R, X
Wall-Mount Strobe Plates:****				15 cd	30 cd	75 cd	110 cd	
RSSP-24MCW-FR	24 VDC	16.0 - 33.0	15 / 30 / 75 / 110	0.050	0.081	0.133	0.166	D, E, Z
RSSP-241575W-FR	24 VDC	16.0 - 33.0	15 (75 on axis)	0.065				D, E, Z
RSSP-121575W-FR	12 VDC	8.0 - 17.5	15 (75 on axis)	0.170				D, E, Z
Synchronization Modules:*****								
SM-12/24-R	24 VDC	—	—	0.025				W
DSM-12/24-R	24 VDC	—	—	0.038				W

NOTES: 1) SUFFIXES USED ABOVE: W = Wall mounting; C = Ceiling mounting; F = Fire lettering; R at end = Red; W at end = White. EXAMPLES: RSS-241575W-FR (Wall mounting - Fire lettering, Red); RSS-2415C-FW (Ceiling mounting - Fire lettering, White). 2) SPECIAL PLATE: NATP Trim Plate provides 0.65" (16.51 mm) additional trim for the appliance. Available in red only.

- * Series RSS and RSSP wall-mount models are offered in red only. Series RSS ceiling-mount models are offered in white only.
- ** Average current per actual Wheelock production testing Listed VDC. For rated average and peak current across the UL regulated voltage range for both filtered DC and unfiltered Vrms, see the Wheelock installation instructions.
- *** For descriptions of MOUNTING OPTIONS, refer to NOTIFIER data sheet DN-8111, derived from Wheelock #S7000.
- **** Compatible Wheelock audibles/speakers for RSSP Strobe Plates are as follows: multitone appliances (AMT, MT); horns (AH, NH); motor bells (MB-G8/G10); speakers (ET-1010/1080, E70, ET70); chimes (CH70).
- ***** SM Sync Modules are rated for 3.0 amperes at 24 VDC; DSM Sync Modules are rated for 3.0 amperes per circuit. The maximum number of interconnected DSM modules is twenty (20). Refer to installation instructions for SM (Wheelock #P83123) and DSM (Wheelock #P83177).

FEATURES QUICK REFERENCE

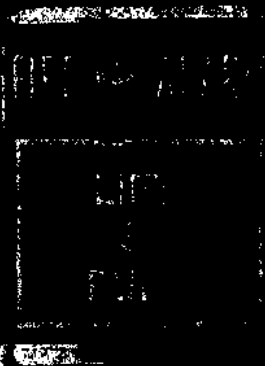
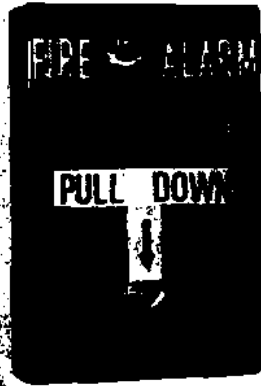
*For Weatherproof RSS Series Strobe (below) information, see Wheelock data sheet S9004.

MODEL NUMBER	WALL MOUNT	CEILING MOUNT	NON-SYNC	SYNCS w/ SM or DSM	STROBE CANDELA	24 VDC	12 VDC	COLOR RED	COLOR WHITE
RSS-24MCW-FR	X		X	X	15 / 30 / 75 / 110	X		X	
RSS-24MCW-FW	X		X	X	15 / 30 / 75 / 110	X			X
RSS-241575W-FR	X		X	X	15 (75 on axis)	X		X	
RSS-121575W-FR	X		X	X	15 (75 on axis)		X	X	
RSSP-24MCW-FR	X		X	X	15 / 30 / 75 / 110	X		X	
RSSP-241575W-FR	X		X	X	15 (75 on axis)	X		X	
RSSP-121575W-FR	X		X	X	15 (75 on axis)		X	X	
RSS-2415C-FW		X	X	X	15	X			X
RSS-2430C-FW		X	X	X	30	X			X
RSS-2475C-FW		X	X	X	75	X			X
RSS-24100C-FW		X	X	X	100	X			X
RSSWP-2475W-FR*	X		X	X	75 @ -31°F	X		X	

Reliable Security Group P.O. Box 849 Lakewood CA. 90714
P 562-529-5100 F 562-529-5102



MANUAL STATIONS



CONSTRUCTION • MATERIAL

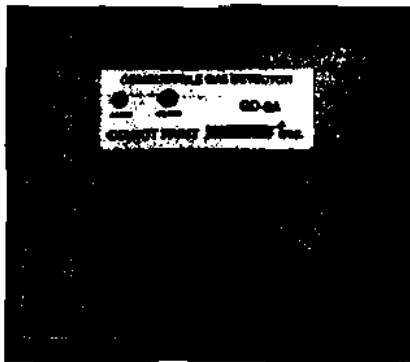
Cast Housing
Steel Back Plate
Inhibited Surfaces
Lock (4 Position)
Mounting
Snap Action Switch (S.P.S.T., S.P.D.T.)

GAS DETECTION
Macurco



GAS DETECTOR

FOR USE WITH ALARM CONTROL PANELS or for use alone



GD-2A

The GD-2A uses a full wave bridge rectifier at its power input, so that it is independent of the polarity of the input power. It can operate on DC or AC voltages between 12 and 24 volts. A switching regulator is used to efficiently match the wide input voltage range to the fixed, internal power system. As a result the power consumption is fairly constant at about 0.75 watts in normal operation, and 1.0 watts in alarm.

The GD-2A has an internal 2 minute time delay, that prevents alarms during the warm-up of the gas sensor. During the warm-up period the green LED light blinks on and off. Once the delay is over, the continuous green light (ARMED) indicates normal operation. The GD-2A has a supervisory circuit of critical functions. A trouble condition, due to failure of a non-reliable component, results in both lights switching on and off and the normally closed trouble relay opening. A power failure also causes the trouble relay to open.

The red LED (ALARM) turns on at the same time the SPDT alarm relay activates, to indicate the alarm condition. The relays are reed type devices that are glass encapsulated, thus are ignition protected.

In the configuration, as shipped from the factory, the GD-2A is self-restoring. When the air clears of gas, the red light turns off and the relay switches to its normal state. A jumper wire on the circuit board can be clipped to allow the unit to latch in upon alarm. Once latched in, power will need to be interrupted to un-latch the alarm condition.

The GD-2A does NOT detect carbon monoxide.

MANUFACTURED BY:

MACURCO
3946 S. Mariposa Street
Englewood, CO 80110
(303) 781-4062 Fax: (303) 761-6640
Website: www.macurco.com

The GD-2A is an all electronic detector of heating type gases (natural and bottle), designed for use alone or for connection to alarm control panels. It can operate on 12 to 24 VDC power from standby or interruptible panel power, or be powered separately.

The attractive two part plastic case allows the GD-2A to be installed over a four inch square or double gang electrical box, providing a near flush mount. A terminal strip is provided for connections to the control panel or other devices.

- DETECTS HEATING GASES: PROPANE (LP), NATURAL (METHANE),
- SPDT ALARM AND N.C. TROUBLE RELAYS
- CAN BE SELF-RESTORING OR LATCHING
- ELECTRONIC SENSORS: NO MAINTENANCE OR RECALIBRATION
- TEMPERATURE COMPENSATED
- SIMPLE INSTALLATION AND OPERATION
- FAIL SAFE SYSTEM: SUPERVISED SENSOR
- IGNITION PROTECTED DESIGN

SPECIFICATIONS

SIZE: 4 1/2 X 5 X 1 1/2 inches

SHIPPING WEIGHT: One pound

VOLTAGE: 12 to 24 VAC or VDC

CURRENT (non-alarm): 60 ma @ 12 VDC, 30 ma @ 24 VDC

CURRENT (in alarm): 83 ma @ 12 VDC, 42 ma @ 24 VDC

COLOR: White

SENSOR MAINTENANCE: Not required

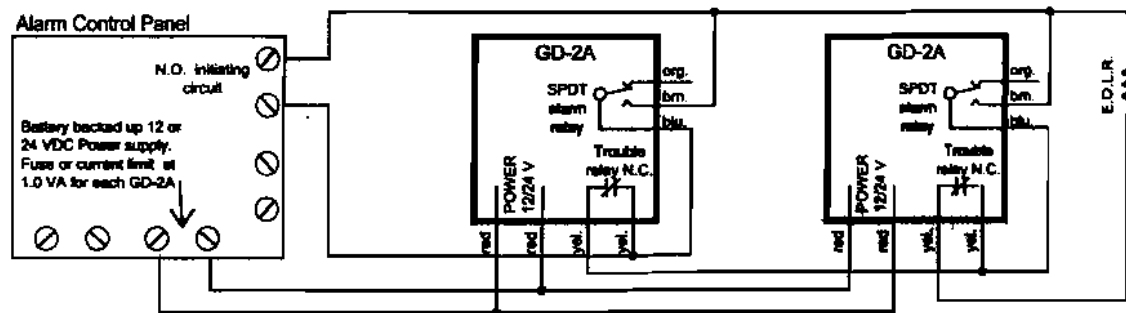
ALARM RELAY RATING: 0.25 Amps, 100V, 3VA

TROUBLE RELAY: 0.50 Amps, 200V, 10 VA

OPERATING TEMPERATURE RANGE: 32° to 120° F

ALARM SET POINT: Per UL 1484 (25% LEL)

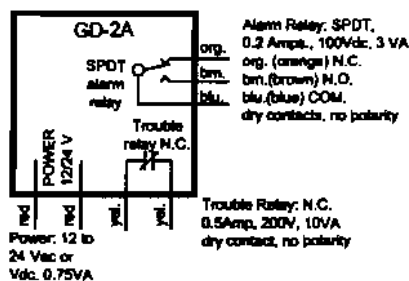
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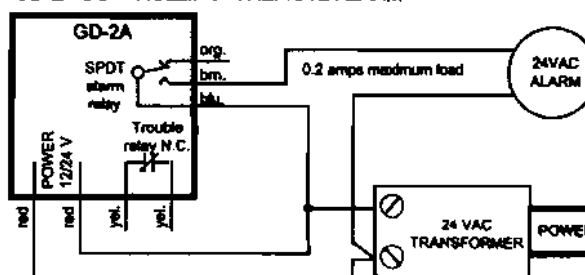
NOTE:

1. The GD-2A is for use with Alarm Control Panels that have 12 to 24 Vdc power and 12 to 24 Vdc alarm initiating circuits, and is a UL Listed Fire Alarm Control Panel or UL Listed Critical Process Management Equipment.
2. The Alarm Control Panel (UL Listed Fire Alarm Control Panel or UL Listed Critical Process Management Equipment) must be dedicated to gas detection or have alarm devices that provide a distinctive alarm for gas detection. Do not connect the GD-2A to Fire Alarm Circuits. A U.L. Listed
3. The GD-2A is intended for installation in buildings in non-hazardous locations such as residences, retail stores, office buildings, and institutional buildings.
4. The GD-2A is NOT intended for use in industrial applications such as refineries, chemical plants, etc.
5. LOCATION: If the gas used is natural gas (methane) mount the GD-2A on a wall about one foot down from the ceiling. If the gas used is propane (LP), mount the GD-2A on a wall or column, one foot above the floor. Do NOT mount the GD-2A in a corner.
6. SPACING: Use the same spacing as for smoke detectors-- 30 foot centers, 900 square feet per detector.
7. INSTALLATION
 The GD-2A Gas Detector mounts on a two gang, old work box or a 4 X 4 electrical box, provided by the installer. The GD-2A has six inch long pigtail leads to which wire nuts connect to the cables from the control panel. A GD-2A is usually located in each room (except kitchens or bathrooms) where gas appliances are located. A GD-2A is usually located in each room through which gas pipes pass.
8. The alarm control panel zone inputs must be terminated with end of line resistors (E.O.L.R.), that are provided with the panel.
9. When using the GD-2A with normally closed Initiating circuits, use the Com. and N.C. alarm relay connections.

THE GD-2A MAY BE USED ALONE
 (The GD-2A has not been evaluated as a stand-alone unit by U.L.)



GD-2A CONTROLLING A REMOTE ALARM



www.GE-Interlogix.com

Sharpshooter™ PIR

6150 Series

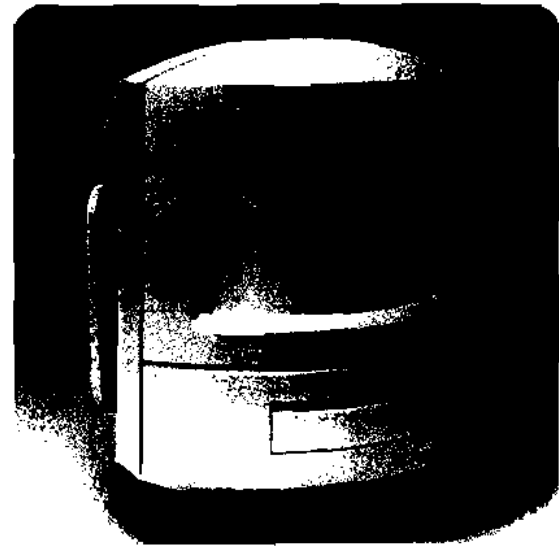
Overview

The 6150 Sharpshooter™ passive infrared detector is an advanced PIR highly sensitive to moving infrared sources while offering increased immunity to RFI, vibration, static, stray light, rapid temperature changes, and other false alarm sources.

The detector uses a dual pyroelectric sensor with jumper selectable one or two-zone detection. It combines bidirectional pulse count and motion verification, the most sophisticated signal processing available. An opaque, high resolution Fresnel lens focuses the infrared energy on the pyroelectric sensor while blocking stray or reflected light. The unit ships with a standard wide angle lens. Long range, extra wide angle, pet alley, curtain and single beam pet alley lenses are available as accessories.

The standard swivel bracket allows the detector to be aimed for best coverage. The lens may be masked using the labeled die-cut kit.

The 6150 Series is an attractive unit of fire-retardant ABS plastic. A built-in cover slides over the LED and provides a surface for private labeling. It incorporates a custom Applications Specific Integrated Circuit (ASIC) on a compact SMD board for highest reliability.



Standard Features

- Sealed optics helps prevent false alarms caused by insects getting inside detector
- Six interchangeable lenses for flexible coverage patterns
- Swivel bracket for accurate aiming
- Cold temperature version able to operate to -40° F
- Motion verification through advanced signal processing reduces false alarms

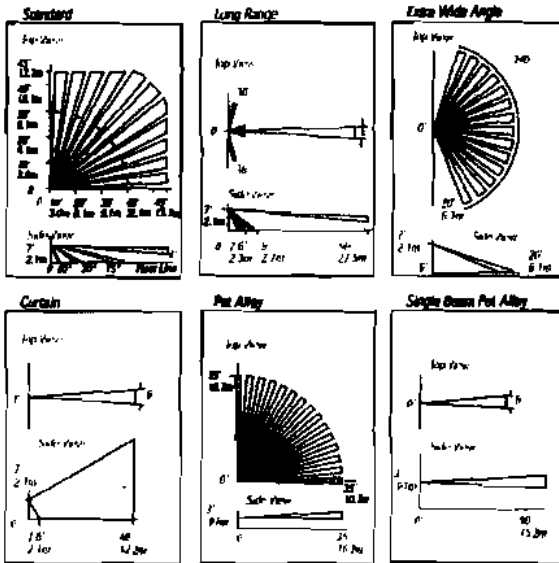
Model Numbers

6155, 6167, 6155CT, 6157CT, 6155AL

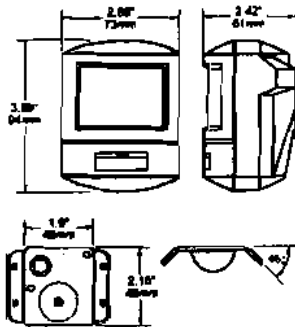


Sharpshooter PII

Lens Coverage



Dimensions



Ordering Information

Part Number	Alarm Type	Electrical Configuration	Special Features	UL Listing
6155	Closed	N.C.		C-UL-US
6157	Closed, Open	SPDT (N.C. and N.O.)		C-UL-US
6155CT	Closed	N.C.	Cold Temperature	C-UL-US
6157CT	Closed, Open	SPDT (N.C. and N.O.)	Cold Temperature	C-UL-US
6155AL	Closed	N.C.	Alarm Memory	C-UL-US



Specifications

Electrical

Voltage
Current
Maximum loop rating
Alarm output

7 to 16V DC
 8mA typical, 10mA max.
 16V DC, 50mA
 Fail safe contacts w/ 10 Ohms in series.
 6155 - Form A, Normally Closed (N.C.)
 6157 - Form C, Normally Closed and Open (SPDT)

Alarm duration
Cover temper contacts
Environmental
Operating temperature

2 to 5 seconds
 Normally Closed, rating: 50mA
 0°F to 120°F (-17°C to +50°C)
 "CT" cold temp. version -40°F to 120°F (-40°C to +50°C)

Humidity
RFI immunity
Static immunity
Lightning immunity

10% to 90% noncondensing
 greater than 10V/meter from 1 to 1000MHz
 20kV
 2.5kV, 2 joules max. energy impulse,
 1 msec rise / 50 msec decay

Features

Pulse count

Bi-directional, 1 event (2 pulses) or
 2 events (4 pulses) with Motion Verification

Range

Standard
Long Range
Extra Wide Angle
Curtain
Pet Alley
Single Beam Pet Alley
Standard swivel bracket
Mounting

45' (13.7m) x 90°
 90' (27.4m) x 6°
 20' (6.1m) x 140°
 40' (12.2m) x 6°
 35' (10.7m) x 90°
 50' (15.2m) x 6°
 ±10 left/right, 10 up, 15 down
 Wall or corner
 (with or without swivel bracket)

LED Indicator

"AL" alarm memory version
Dimensionless

Walktest
 Latching
 3.68" (93.7mm) H
 2.88" (73mm) W
 2.42" (61.3mm) D

Color
Listing

Off-white
 UL639, CAN/ULC 5306



GE Interlogix

www.GE-Interlogix.com

12345 SW Lovelton Drive
 Tualatin, OR 97062
 Phone: 503-692-4052
 USA & Canada: 800-547-2556
 Technical Service: 800-648-7424
 Faxback: 800-483-2495

2266 Second Street North
 North St. Paul, MN 55109
 Phone: 651-777-2690
 USA & Canada: 800-777-5484
 Technical Service: 800-777-2624



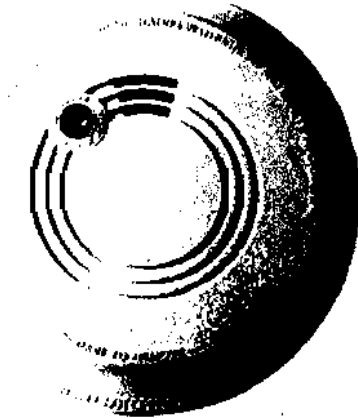
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Printed May 28, 2004


X CLOSE

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Firex 120 Volt Direct Wire Firex® Smoke Alarm with Line Voltage Interconnect

Direct replacement for models FX1014, FX1020, FX1106 or FXW-1A With line voltage. Styline Design. UL listed. 5-year limited warranty. US offering.

 This item can be gift boxed
- Usually ships in 2-3 business days.

SPECS

- Internet ID: 163307
- Brand: Firex
- Contents: Line voltage interconnect
- Power Supply: 120 volt
- Test/Reset Button: Yes
- Type: Smoke Alarms

WARRANTY AND SAFETY

- For warranty information on this product, please call our Internet Customer Service Center at 1-800-430-3376.

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BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

Pre-construction Meeting: Must be scheduled with your inspection team upon receipt of this permit. Jay Reynolds, Development Review Coordinator at 874-8632 must also be contacted at this time, before any site work begins on any project other than single family additions or alterations.

- Footing/Building Location Inspection:** Prior to pouring concrete
- Re-Bar Schedule Inspection:** Prior to pouring concrete
- Foundation Inspection:** Prior to placing ANY backfill
- Framing/Rough Plumbing/Electrical:** Prior to any insulating or drywalling
- Final/Certificate of Occupancy:** Prior to any occupancy of the structure or use. NOTE: There is a \$75.00 fee per inspection at this point.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERTIFICATE OF OCCUPANCIES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED

[Signature]
Signature of Applicant/Designee

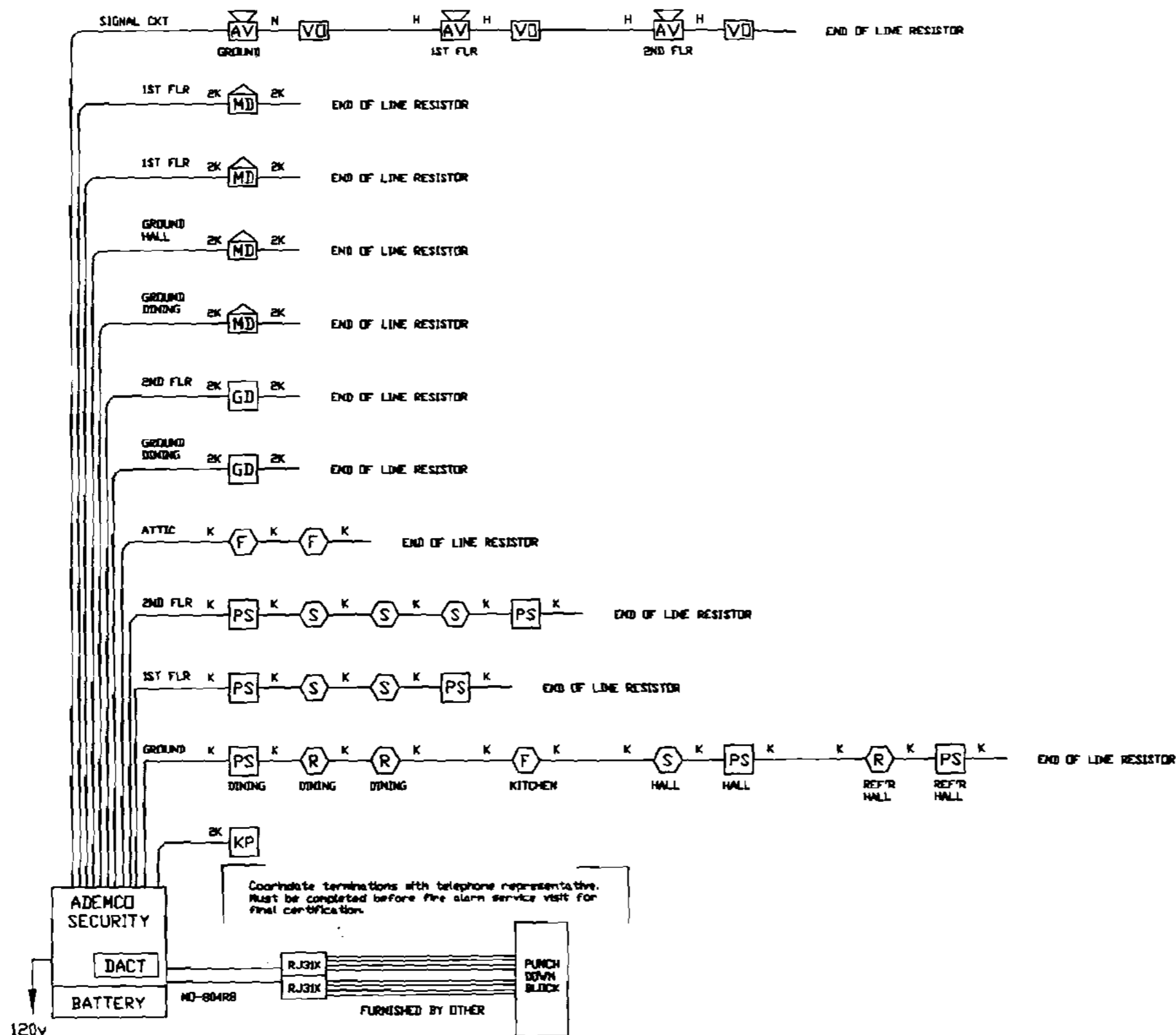
2/1/09
Date

[Signature]
Signature of Inspections Official

Date

CBL: 085-17013

Building Permit #: 040719



DO NOT BOTTOM
ENTRY ANY CONDUIT
IN ANY PANEL

SYMBOL LEGEND

- PULL STATION
- SMOKE DETECTOR
- HEAT DETECTOR RATE OF RISE
- HEAT DETECTOR Fixed Temp (135°/200°)
- VISUAL ONLY
- AUDIO / VISUAL
- MOTION DETECTOR WALL MOUNTED
- KEYPAD
- GAS DETECTOR

CABLE LEGEND

- EDLR END OF LINE RESISTOR
- H 1 pr 916 AVG CABLE
- K 1 pr 929 AVG CABLE

COMMENTS

NOTE 1: This is a typical layout, wiring is shown diagrammatically only. Buyer does not necessary indicate all devices and appliances. See floor plans and specification for location and quantities. The purchaser needs to accurately layout the devices in their proper zones. IF partitions are NOT known however each device back to the control panel.

NOTE 2: If connecting a fire panel to the security panel for reporting means. Dual phone lines and an additional module is required for UL listing.

REVISION 2	DATE:
REVISION 1	DATE:
REVISION 0 SUBMITTAL	DATE: 05-29-2004

SYSTEM WIRING RISER

PROJECT NAME 8th Maine Memorial PEAKS ISLAND, PORTLAND, MAINE	SCALE NTS BY: KNOWLTON CK BY:
NORRIS INC. P.O. BOX 2551, SOUTH PORTLAND, MAINE 04106 2257 BROADWAY, SOUTH PORTLAND, MAINE	SAVED AS: MAINEMEMORIAL