

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

GROVER ARTHUR E VN VET & DIANE T GROVER
JTS/Protection Professionals

PERMIT ID: 2013-00325

Located at

179 PINE ST

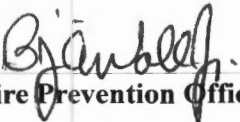
CBL: 063 F00801A

has permission to **install supervised fire alarm permit throughout complex.**

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 clsoed-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

58

Code Enforcement Officer / Plan Reviewer

**THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
THERE IS A PENALTY FOR REMOVING THIS CARD**

PERMIT ID: 2013-00325

Located at: 179 PINE ST

CBL: 063 F00801A

BUILDING PERMIT INSPECTION PROCEDURES
Please call 874-8703 (ONLY)
or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

REQUIRED INSPECTIONS:

Final - Fire

Final - Electric

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 2013-00325	Issue Date:	CBL: 063 F00801A
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Location of Construction: 179 PINE ST	Owner Name: GROVER ARTHUR E VN VET & DIANE T GROVER JTS	Owner Address: 179 PINE ST # 1A PORTLAND, ME 04102	Phone:
Business Name: Williamsburg Condos	Contractor Name: Protection Professionals	Contractor Address: 325 US Rt 1 Falmouth ME 04105	Phone: (207) 775-5755
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	Zone: R4
Past Use: 32 Residential Condominiums	Proposed Use: Same: 32 Residential Condominiums	Permit Fee: \$670.00	Cost of Work: \$65,000.00
		FIRE DEPT: 2/25/13 <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A	INSPECTION: Use Group: Type:
Proposed Project Description: Fire alarm permit for WHOLE COMPLEX		Signature: <i>[Signature]</i> (58)	Signature:
		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: bjs	Date Applied For: 02/15/2013	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: <i>2/20/13</i></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><i>with</i></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><i>Any exterior work requires a separate review & approval</i></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
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

City of Portland, Maine - Building or Use Permit

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

Permit No: 2013-00325	Date Applied For: 02/15/2013	CBL: 063 F00801A
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Location of Construction: 179 PINE ST	Owner Name: GROVER ARTHUR E VN VET &	Owner Address: 179 PINE ST # 1A	Phone:
Business Name: Williamsburg Condos	Contractor Name: Protection Professionals	Contractor Address: 325 US Rt 1 Falmouth	Phone: (207) 775-5755
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	

Proposed Use: Same: 32 Residential Condominiums	Proposed Project Description: install supervised fire alarm permit throughout complex.
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Dept: Zoning **Status:** Approved **Reviewer:** Marge Schmuckal **Approval Date:** 02/20/2013
Note: **Ok to Issue:**

Dept: Fire **Status:** Approved w/Conditions **Reviewer:** Ben Wallace Jr **Approval Date:** 02/25/2013
Note: **Ok to Issue:**

- 1) Fire protection systems shall be maintained. If system is to be off line over 4 hours a fire watch shall be in place. Dispatch notification required 874-8576.
- 2) Manual Pull Stations are required per NFPA 101:30.3.4.2.1 at all exit doorways and within 200 feet of travel.
- 3) In field installation shall be installed per code as conditions dictate.
- 4) The fire alarm system shall have a new fire alarm inspection sticker.
- 5) The installation shall comply with the following:
 City of Portland Chapter 10, Fire Prevention and Protection;
 NFPA 1, Fire Code (2009 edition), as amended by City Code;
 NFPA 101, Life Safety Code (2009 edition), as amended by City Code;
 City of Portland Fire Department Rules and Regulations;
 NFPA 72, National Fire Alarm and Signaling Code (2010 edition), as amended by Fire Department Rules and Regulations; and
 NFPA 70, National Electrical Code (2011 edition) as amended by the State of Maine
- 6) Notice: The first scheduled final inspection fee is at no charge. Additional inspections shall be billed at \$75 for each inspector.
- 7) The door to the FACP shall be marked. An exterior horn/strobe is appropriate.
- 8) System CO detectors shall be located on the ceiling in the same room as permanently installed fuel-burning appliances and centrally located on every habitable level and in every HVAC zone of the building per NFPA 720:5.5.5.3.1. System CO detectors shall activate an audible alarm at the detector and FACP, and send an alarm signal the remote station. It shall not trip a/the master box.
- 9) The fire alarm technician shall be present for the fire inspection. System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.
- 10) A 4100 series Knox Box is required.
- 11) Automatic fire detection devices shall be installed as follows:
 - (1) Smoke detectors shall be installed in all common areas and work spaces outside the living unit, such as exit stairs, egress corridors, lobbies, storage rooms, equipment rooms, and other tenantless spaces in environments suitable for proper smoke detector operation.
 - (2) Heat detectors shall be located within each room of the living unit (exception: bathrooms not exceeding 55 ft² and closets not exceeding 24 ft² and no more than 3 ft. deep).
- 12) All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP labeled "FIRE ALARM RECORDS".

Location of Construction: 179 PINE ST	Owner Name: GROVER ARTHUR E VN VET &	Owner Address: 179 PINE ST # 1A	Phone:
Business Name: Williamsburg Condos	Contractor Name: Protection Professionals	Contractor Address: 325 US Rt 1 Falmouth	Phone (207) 775-5755
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	

13 Through-penetrations and membrane penetrations in fire walls, fire barrier walls, and fire resistance rated horizontal assemblies shall be protected by firestop systems or devices in conformance with NFPA 101:8.3.5 (ASTM E 814 or ANSI/UL 1479). Providing firestop labels at each firestop system or device and an onsite manual containing the detail for each firestop system or device used for the project will streamline final inspection approvals.

14 Records cabinet, FACP, annunciator(s), and pull stations shall be keyed alike.

15 A master box connection and drill switch is required. AES Zones shall be:

1. Not assigned
2. Not assigned
3. Pull stations and detectors
4. City Disconnect: Pull stations and detectors
5. Not assigned
6. Not assigned
7. Not assigned
8. AES tamper switch

16 All smoke detectors shall be photoelectric.

17 Supervising Station monitoring for addressable fire alarm systems shall be by point.

Master Box Approval

Applicant: Protection Professionals

Emergency Contact: Leza Gough

App Phone #: 207-775-5755

Emergency phone #: 207-749-3217

Building Name: Williamsburg Condos

Date of Application: 2/12/13

Building Address: 181 Pine St

Billing Address: 181 Pine Street

c/o Leza Gough

Occupancy: 32 unit apartment building

Portland, ME 04102

Assembly OL>300, 20 unit apartment building, etc.

Comments:

Applicant completes red box and submits with Fire Alarm Permit

1

FIRE PREVENTION:

Approved

Denied

2 / 25 / 13

Date

B. Gough
Fire Prevention Officer

Zone 1: Unassigned

Zone 2: Unassigned

Zone 3: Pulls and detectors

Zone 4: City disconnect - Pulls and Detectors

Zone 5: Unassigned

Zone 6: Unassigned

Zone 7: Unassigned

Zone 8: AES Tamper switch

Modify City Box response to alarm sounding in CAD: YES NO

2

FIRE ALARM:

Box #: _____

ELECTRICAL DIVISION:

Approved

Denied

Box Type: AES Radio Box /
New

Other

3

Test Date: ____ / ____ / ____ In Service Date: ____ / ____ / ____

Fire Alarm Technician

AES / Circuit if applicable: _____

4

FIRE ALARM:

Same Running Assignment As Box: _____

Notifications: All Stations Run Books Digitizer Computer Cad Box Test

South Portland

Other

Dispatcher

5

BILLING:

Entered

Financial Officer



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: 181 Pine Street CBL: 063 F008 01A
1A (For whole complex)

Exact location: (within structure) _____

Type of occupancy(s) (NFPA & ICC): Condominium

Building owner: Williamsburg Condominium Assn

System Designer (point of contact): Richard Brobst, Jr
Must be

Designer phone: 775-5755 E-mail: rich@protecitonprofessionals.net

Installing contractor: Campbell's Electric Certificate of Fitness No: M1001

Contractor phone: 252-2411 E-mail: _____

This is a new application: YES NO New AES Master Box: YES NO
(Include Master Box approval form)

Amendment to an existing permit: YES NO Permit no: _____

The following documents shall be provided with this application:

- Floor plans
- Wiring diagram
- Annunciator details
- Input/ Output Matrix
- Equipment data sheets
- Electrical Permit Pulled (check alarm/com)
- Scope of Work
- 11 1/2 x 17s
- pdf copy (may be e-mailed)
- Designer qualifications
- Battery/ voltage drop calcs

Master box approval only: YES NO
(If yes check *New AES Master Box* above)

65,650

COST OF WORK: ~~64,943.00~~

PERMIT FEE: 670.00
(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)

RECEIVED

FEB 15 2013

Dept. of Building Inspections
City of Portland Maine

The designer shall be the responsible party for this application. Download a new copy of this application at www.portlandmaine.gov/fire for every submittal. Submit all plans in electronic PDF in addition to readable 11 1/2 x 17s to the Building Inspections Department, 389 Congress Street, Room 315, Portland, Maine 04101.

Prior to acceptance of any fire alarm system, a complete commissioning and acceptance test must be coordinated with all fire system contractors and the Fire Department, and proper documentation of such test(s) provided.

All installation(s) must comply with the *City of Portland Technical Standard for Signaling Systems for the Protection of Life and Property*, available at www.portlandmaine.gov/fire.

Applicant signature: *Doug Harvey* Date: 2-15-13



**NATIONAL INSTITUTE FOR CERTIFICATION
IN ENGINEERING TECHNOLOGIES®**

Providing Certification Programs Since 1961

BE IT KNOWN THAT

Richard W. Brobst, Jr

IS HEREBY AWARDED CERTIFICATION AT

LEVEL IV

IN FIRE PROTECTION ENGINEERING TECHNOLOGY
FIRE ALARM SYSTEMS

**BASED UPON SUCCESSFUL DEMONSTRATION OF REQUISITE KNOWLEDGE,
EXPERIENCE AND WORK PERFORMANCE AS SET FORTH BY THIS INSTITUTE.**

Certification Valid through October 1, 2014

CERTIFICATION NUMBER 106322

CHAIRMAN OF THE NICET BOARD OF GOVERNORS

A DIVISION OF THE NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

50th
Anniversary
1961—2011

Vista 250

Quantity	Part #	Description	Standby	Alarm	Total standby	Total alarm
1	V250	Fire Panel (maximum)	0.305	0.485	0.305	0.485
1	6160CR	Annunicator	0.150	0.150	0.150	0.150
	4208SN	Expander	0.001	0.033	0.000	0.000
1		Sprinkler	0.001	0.001	0.001	0.001
11		Pull Station	0.001	0.001	0.011	0.011
	2W	Smoke	0.000	0.130	0.000	0.000
	4W	Smoke	0.020	0.023	0.000	0.000
		heat	0.000	0.000	0.000	0.000
10		Addressable smoke	0.001	0.001	0.010	0.010
		Motion	0.015	0.022	0.000	0.000
		Duct Detector	0.001	0.001	0.000	0.000
		Duct smoke	0.001	0.001	0.000	0.000
		Duct relay	0.001	0.001	0.000	0.000
		Duct Remote	0.001	0.001	0.000	0.000
		Remote light	0.001	0.001	0.000	0.000
			0.000	0.000	0.000	0.000
1		NAC Trigger only	0.000	0.001	0.001	0.001
		NAC power maximum (24V)	0.000	3.400	0.000	0.000
		NAC power maximum (12V)		2.300	0.000	0.000
					0.000	0.000
					0.000	0.000
		Miscellaneous			0.000	0.000
TOTAL			0.499	6.552	0.478	0.658

	Hours	Standby current		Total
	24	0.4780		11.472
Minutes		Alarm current		
5	0.08333333	0.6580		0.055
		Battery Capacity		
	10%	11.5268		12.680

Protection Professionals

325 US Route 1
 Falmouth, ME 04105
 Ph 207-775-5755
 Fax 207-781-2064

Device List

No. 4979

List Date
2/11/2013

Bill To Name / Address
Williamsburg Condominiums 181 Pine Street Portland, Maine 04102

Job Site
Williamsburg Condominiums 181 Pine Street Portland, ME 04102

CHANGING THIS DEVICE LIST DOES NOT ALTER THE ORIGINAL ESTIMATE
Attach copy to Purchase Order for accounting

Estimate No.

Item	Description	Qty To Order	Qty Ordered
Misc Inventory Materi...	Vista 250-FB fire alarm panel kit including a dialer and an annunciator	1	
Bat 12-18	Battery	2	
5881ENHC	Wireless receiver for commercial burglary and 5800 devices	2	
06-SSU00672	Fire Document box 12 inches wide X 13.1 inches high X 2.25 inches deep, CAT 30 keyed	1	
SF-STI7510E	Keypad cover with lock set	1	
8085	Ademco cam lock assembly	2	
AD-TG7GFS04	Fire Alarm Communicator, Cell based, 3G	1	
Bat 12-7	12V 7AH Batteries	1	
7788F	Wireless fire subscriber for City of Portland	1	
Bat 12-7	12V 7AH Batteries	1	
1640	16.5 Volt AC 40 VA Class 2 Transformer	1	
Misc Inventory Materi...	Bypass switch	1	
GI-TSW01\$	Tamper Switch for master boxes	1	
D8004	UL TRANSFORMER KIT	2	
5193SD	Addressable Smoke Detectors	9	
5140MPS-1	Manual Pull Station	11	
4193sn	Interface device (v-plex)	11	
AX-AL1002ULADA	NAC power supply, 10 amps, two Class A and four Class B circuits at 2.5 amps/circuit, 1 amp Aux power	1	
Bat 12-7	12V 7AH Batteries	2	
500-636161	ZH-MC-R Horn/strobe, red, wall mount, Hi or Lo volume, 15cd, 30cd, 75cd, or 110cd	17	
500-636159	Horn, red, wall, double gang	36	
500-636169	ZR-MC-R Strobe only, red, wall mount, 15cd, 30cd, 75cd, or 110cd	2	
4193sn	Interface device (v-plex) for sprinkler	3	
4101	Knox Box, large size, hinged cover	1	
5809	Wireless Heat Detector, 135 fixed temperature and rate of rise	137	
	State of Maine Sales Tax		

Ordered By: _____

Date: _____

Received By: _____

Date: _____

VISTA-250FBP/V250FBP-24

COMMERCIAL PARTITIONED FIRE AND BURGLARY ALARM CONTROL PANEL



Now UL864 9th Edition Approved

Designed to integrate seamlessly with CCTV, access control and Honeywell's full range of fire and burglary components, the new VISTA-250FBP provides the ultimate protection of life and property. The UL Listed commercial fire and burglary control panel supports up to eight partitions and up to 250 zones/points using hardwired, wireless and V-Plex®

addressable technologies. A diverse line of Honeywell initiating devices, notification circuits, communication devices, keypads, RF receivers and relays are also supported. The VISTA-250FBP has been designed to mount quickly and easily in an attack resistant cabinet, and is available in 12V and 24V models.

FEATURES

- Comes standard with eight hardwired zones, expandable to 242 V-Plex addressable points/zones or 250 wireless points/zones
- Can control eight separate areas independently (eight partitions)
- Supports commercial wireless fire and burglary devices
- Stores up to 1,000 events
- Supports V-Plex addressable VistaKey access control (up to 15 doors)
- Accommodates 150 user codes and up to 500 access card holders using VistaKey
- Two on-board notification (bell) circuits delivering 2.3A @ 12V or 3.4A @ 24V
- Automatic smoke detector sensitivity maintenance testing
- Four-wire smoke reset using onboard J2 output trigger
- Supports Dynamic Signaling for AlarmNet communicators used in conjunction with the phone line
- Supports remote control via AlarmNet Total Connect Services*
- Supports Internet Alarm Reporting*
- Notification Appliance Circuits (two):
 - Programmable
 - Individually silenceable
- Programmable on-board auxiliary relay
- False alarm reduction features:
 - Exit error logic
 - Exit delay reset
 - Cross zoning
 - Call waiting defeat
 - Recent close report
- Hardwired zones:
 - Provides eight style B hardwired zones
 - Supports N.O. or N.C. sensors
 - Individually assignable to any partition – Up to 32 two-wire smoke detectors each on zones one and two (64 total)
 - Up to 50 two-wire glassbreak detectors on zone eight
 - EOLR supervised for Fire and UL burglary installations
- Listed to UL864 9th Edition
- Upload/download via Ethernet*
- Carbon Monoxide (CO) zone support

*When used with AlarmNet devices.

VISTA-250FBP/ V250FBP-24

COMMERCIAL PARTITIONED FIRE AND
BURGLARY ALARM CONTROL PANEL

Honeywell

ADDITIONAL FEATURES

- Patented addressable polling loop technology
 - Supports 242 two-wire zone points
 - Global polling technology for faster processing
 - Supervised by panel
 - Zones individually assignable to partitions, notification circuit (bell) output or auxiliary relay
 - 4,000 ft. capability without the use of shielded cable
 - Extender/Isolation bus modules
 - Eight zone – Class A and B expander module
 - Eight zone – Class B expander module
 - One zone supervised contact monitor module
- UL Listed wireless expansion
 - Supports up to 250 wireless zones/points
 - Supervised by control for check-in signals
 - Tamper protection for transmitters
 - Individually assignable up to eight partitions
- Access Control Integration
 - Full integration with PassPoint Access Control System
- Up to 15 doors using VistaKey Access Control
- Event reporting
- Local printer of access or VISTA related events
- Communication
 - Phone mapping by zone response type
 - Panel operation during download

Applications

Supported by a diverse line of Honeywell initiating devices, the VISTA-250FBP is the ideal integrated fire and burglary control for applications where a high level of security is necessary. Some examples of applications include: medical and professional buildings, supermarkets, churches, synagogues, schools, universities, strip malls, factories, warehouses, and larger residences.

SPECIFICATIONS

Electrical

- Primary power: 18VAC @ 72VA
ADEMCO No. 1451
- Control Panel quiescent current draw: 300mA
- Backup battery:
 - 12VDC, 12AH min to 34.4AH max
 - Lead acid battery (gel type)
- Alarm power: 12VDC, 1.7A max for each notification (bell) circuit output
Total 2.3A @ 12V
- Aux. standby pwr: 12VDC, 1A max
- Total power: 2.3A at 12VDC, 3.4A at 24VDC from all sources
- Standby time: 24 hours with 1A 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
- Optional 24-volt power supply, PS 24 supplies two 24 VFW, 1.7A full wave rectified, unfiltered outputs

Main Dialer

- Line seize: Double Pole
- Ringer equiv.: 0.7B
- Formats: ADEMCO Low Speed, ADEMCO 4+2 Express, ADEMCO High Speed, ADEMCO Contact ID, Sescoa and Radionics
- Dual phone line capability (using 5140DLM module)

Cabinet Dimensions

- 18" H X 14.5" W X 4.3" D

Environmental

- Storage temp:
14° F to 158° F
(-10° C to 70° C)
- Operating temp:
32° F to 122° F
(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

- UL609 Grade A Local Mercantile Premises and Mercantile Safe and Vault
- UL611/1610 Grades A, AA, Central Station
- UL365 Grades A, AA Police Connect
- UL864/NFPA72 Local, Central Station and Remote Station
- UL985
- Factory Mutual
- California State Fire Marshal
- MEA
- CAN/ULC S304 – Central and Monitoring Station Burglar Alarm Unit
- CAN/ULC S527 – Central Unit for Fire Alarm Systems
- CAN/ULC S303 – Local Burglar Alarm Unit
- CAN/ULC S525 – Audible Signal Appliances

VISTA-250FBP/V250FBP-24

COMMERCIAL PARTITIONED FIRE AND BURGLARY ALARM CONTROL PANEL

COMPATIBLE DEVICES

Auxiliary Devices

- 4204 – Relay Module, four form C contacts
- 4204CF – Two supervised output circuits
- 5881 Series RF receiver
- 5883H RF receiver
- 6220S – System printer used with 4100SM serial module
- 6160CR-2 – Red Fire Keypad
- 6160 – Burglary Keypad

Two-Wire Smoke Detectors Conventional

- System Sensor
- ESL
- DSC

Horn/Strobes

- System Sensor
- Wheelock
- Gentex

Manual Pull Stations

- 5140MPS-1
- 5140MPS-2

V-Plex (Addressable) Zone Expanders

- 4101SN Single Relay/Zone Module

- 4190SN Remote Point Module – two zones
- 4193SN Two Zone Serial Interface Module
- 4208SNF Class A/B Expander Module
- 4208U Loop Expansion Module – eight zones
- 4293SN One Zone Serial Interface Module

V-Plex Extender/Isolation Modules

- 4297 Extender/Isolator Module
- VSI Isolator Module

V-Plex Smoke Detectors

- 5193SD
- 5193SDT

V-Plex Passive Infrared Detectors

- 998MX
- IS2500SN
- DT7500SN

V-Plex (Addressable) Contacts

- 4939SN-WH
- 4944SN-WH
- 4959SN

V-Plex Glassbreak Detectors

- FG1625SN

Optional 24V Power Supply

- PS24 – 24V power supply – 3.4A

Commercial Wireless Devices

- 5808W3 – Photoelectric Smoke/Heat Detector
- 5806W3 – Photoelectric Smoke Detector
- 5809 – Wireless Heat Detector
- 5817CB – Wireless Commercial Transmitter
- 5869 – Hold up Transmitter
- 5881ENHC – RF Receiver
- 5883H – RF Receiver

Access Control

- VistaKey V-Plex (addressable) Access Control
- VistaKey-SK Starter Kit
- VistaKey-EX Expansion Kit

Alarm Communications

- 7845i-ENT – Internet/Intranet Communicator
- 7845GSM – Digital Cellular Communicator
- 7845i-GSM – Internet and Digital Cellular Communicator
- GSMCF/iGSMCF – Commercial Fire Communication Kits (when available)

Product specifications subject to change.

ORDERING

V250FBP-9	Commercial Fire and Partitioned Burglary Alarm Control Panel 12V Model
V250FBP9-24	Commercial Fire and Partitioned Burglary Alarm Control Panel 24V Model

For more information: www.honeywell.com/security/hsc

Automation and Control Solutions

Honeywell Security & Communications
2 Corporate Center Dr. Suite 100
Melville, NY 11747
1.800.467.5875
www.honeywell.com

Honeywell

L/VSTA250FBPD/D
September 2009
© 2009 Honeywell International Inc.



TELGUARD

TG-7FS

CELLULAR ALARM COMMUNICATOR

COMMERCIAL FIRE

PRODUCT FEATURES

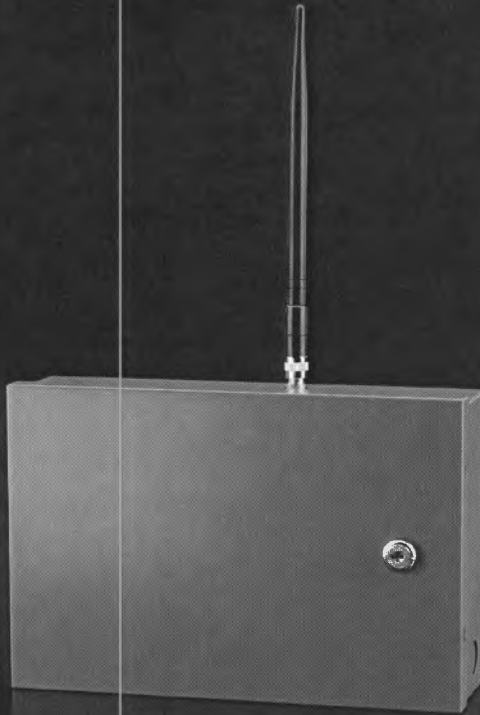
- Meets UL 864 requirements for sole, primary or backup path communications.
- Supports virtually all alarm formats for universal panel compatibility.
- Connects to your central station's PSTN or IP receivers.
- Saves your customers money by replacing landline costs.

The Telguard TG-7FS is the ideal cellular alarm communications solution for commercial fire systems. The TG-7FS transmits alarm signals from the fire panel over the digital cellular network to the designated monitoring station.

Compliant with the 2010 Edition of NFPA 72, the TG-7FS can serve as the sole communications path for the fire alarm system, replacing all of the landlines currently dedicated to the master control unit. On average, cellular monitoring costs the end user significantly less than a dedicated landline. For each landline replaced with a TG-7FS, the monthly communications bill decreases.

By being able to signal failures to the central station within five minutes of an outage, the TG-7FS can be installed as the sole path for commercial fire installations. For existing installations, all landlines can be swapped for a single TG-7FS because of the new five minute supervision mode.

The TG-7FS can also be installed as a backup path, and upgraded to sole path at a later date.



Telguard Online

Telguard makes adopting cellular easy with a secure Internet portal. The straightforward web interface allows security dealers and central stations to quickly and efficiently access Telguard based services 24/7. This advanced tool has multi-level user authorization and provides total account management of UL Listed Telguard cellular alarm communicators.

Telguard Cellular Service

Telguard Cellular Service provides nationwide digital cellular network coverage for all Telguard units. Telguard's Communication Center is UL listed and provides seamless connectivity between the alarm panel, the Telguard family of products and the central station. Telguard Technical Support provides a single point of contact for both cellular service and Telguard product questions.

Advanced Reliability

- Available relay output for tripping the alarm control panel when a trouble condition occurs.
- Automatic self-tests with central station notification ensure the cellular system is operating.
- 128 bit AES (Advanced Encryption Standard) alarm signals ensure authentication and security.
- Features SMS backup to reduce false alarms, providing supervision using SMS if GPRS fails.



TELGUARD

TG-7FS

CELLULAR ALARM COMMUNICATOR

Power

- Transmit power: 1.0W-2.0W (maximum allowable).
- Power Consumption: 60mA (Standby) 250mA (Transmission).
- Transformer: 12VAC, 800mA UL listed plug-in.

Radio Transceiver

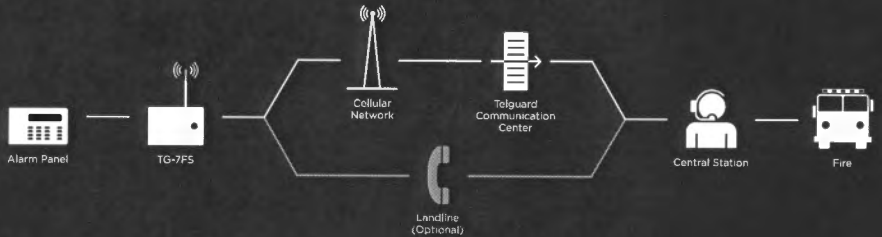
- Dual band cellular and PCS.
- GSM 850MHz: Class 4 (2 watts).
- GSM 1900MHz: Class 1 (1 watt).
- Antenna: 9" dipole with 2dBi gain, 12 ft of cable and universal mounting bracket.
- FCC part 15, 22, 24 and 68 compliant.

Physical Details

- TG-7FS: 7.5" H x 11.5" W x 3.5" D
- Shipping Weight: 8lbs
- Operating Environment: 0°C to +50°C; up to 95% humidity (non-condensing).

Standard Features

- Full data reporting.
- Automatic self-test (5 min. & daily).
- Power supply with battery harness.
- Locking, red metal enclosure.
- Two programmable supervisory trip outputs.
- Alarm format support for SIA2, Contact ID, pulse (3x1, 4x2), modem IIe, & IIIa2, DMP.
- Telephone line monitor built-in, with Standard Line Security.



Telguard technology allows full data reporting for unlimited point-to-point signal details and maximum transmitting power for superior in-building penetration.

Telguard products are easy to install, economical, and UL Listed.

Accessories

- ACD 12, ACD 35, ACD 50, ACD 100: 12/35/50/100 feet of low loss, high performance cable.
- HGD-0: High gain directional antenna.
- EXD-0: External antenna.

UL Listings

Commercial Fire
864 • Control units & accessories for fire alarm systems

Commercial Burglary
365 • Police Station connected burglar alarm units and systems
1610 • Central station burglar alarm units

Residential
985 • Household fire warning systems
1023 • Household burglar alarm systems



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Altronix®

AL602ULADA, AL802ULADA, AL1002ULADA NAC Power Extenders

Rev. AL602/802/1002ULADA- A05I

Overview



The AL602ULADA, AL802ULADA and AL1002ULADA are extremely cost effective voltage regulated remote NAC Power Extenders. They may be connected to any 12 or 24 volt Fire Alarm Control Panel (FACP). Primary applications include Notification Appliance Circuit (NAC) expansion (supports ADA requirements) and will provide auxiliary power to support system accessories.

AL602ULADA

- 24VDC or 12VDC rated @ 6.5 amp max.
- Two (2) Class A or four (4) Class B outputs.

AL602ULADAJ

- Larger enclosure.

AL802ULADA

- 24VDC or 12VDC rated @ 8 amp max.
- Two (2) Class A or four (4) Class B outputs.

AL802ULADAJ

- Larger enclosure.

AL1002ULADA

- 24VDC rated @ 10 amp max.
- Two (2) Class A or four (4) Class B outputs.

AL1002ULADAJ

- Larger enclosure.

Specifications

- Two (2) Class A or two (2) Class B FACP inputs.
- Two (2) NC dry contact trigger inputs (AL802ULADA and AL1002ULADA only)
- Two (2) Class A or four (4) Class B indicating circuits.
- Two (2) Class B outputs may be paralleled for more power on an indicating circuit.
- One (1) Aux. Power Output @ 1 amp supply current (w/battery back up).
- Signal Circuit Trouble Memory - facilitates quickly locating intermittent system trouble and eliminates costly and unnecessary service calls. LED's indicate a prior fault (short, open, ground) has occurred on one or more signaling circuit outputs.
- 2-wire Horn/Strobe Sync mode allows audible notification appliances (Horns) to be silenced while visual notification appliances (Strobes) continue to operate.
- Horn/Strobe sync protocols include: Gentex®, System Sensor®, Faraday, Amseco.
- Temporal Code 3 Mode.
- Steady Mode.
- Input to Output Follower Mode (maintains synchronization of notification appliance circuits).
- March Time.
- Compatible with 24VDC or 12VDC fire panels.
- Common trouble inputs and outputs.
- Ground fault detection.
- Input 115VAC.
- AC fail supervision (form "C" contacts).
- Low battery supervision (form "C" contacts).
- Battery presence supervision (form "C" contacts).
- Power supply, logic board, red enclosure, cam lock, transformer & battery leads.
- Enclosure:
 - Combination knockouts re 1/2" and 3/4"
 - Accommodates up to two (2) 12VDC/12AH batteries.

Agency Approvals



UL Listed Control Units and Accessories for Fire Alarm Systems (UL 864), UL Listed Standard for Safety for Fire Protective Signaling Systems (UL 1481).



California State Fire Marshal Approved.



MEAs Approved NYC Department of Buildings Approved.



Factory Mutual Approved.

**NO
EXCUSES!**



FDB

Fire Alarm Control Unit (FACU) Records & Document Box

The Space Age FDB has been developed to be a code compliant solution to a mandated item specified by the National Fire Code (NFPA 72).

An internal galvanized sleeve holds the documents safely and securely. Access to the documents is via a high security CAT 30 Lock Set.

The galvanized sleeve also contains 2 hooks for key rings or thumb drives, a place for several business cards, a cutout for a 1.4 Oz. can of test gas and a slot where a standard CD "jewel" case can be stored.

Held in by two "wing nuts" the sleeve is easily removable to allow storage of a 1.5" 3 ring binder.

The door reads "FACU MAINTENANCE RECORDS" in 1" tall white lettering. Custom Logo and Lock Sets are available upon request.

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." The FDB is large enough to hold Operating Manuals, Permits, Shut-Down Instructions and more.

Standard Features:

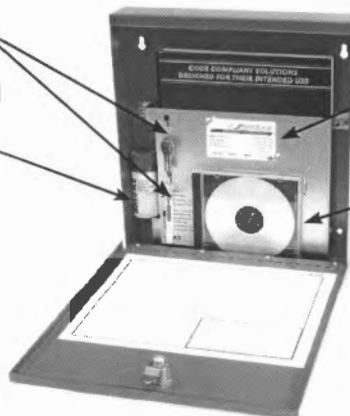
- Overall Dimensions are:
12" Wide x 13.1" High x 2.25" Deep
- CAT 30 Secured Locking Door
- Piano Hinged Door w/Notes Sticker
- Removable document holder can hold 1" of 8.5" x 11" paperwork
- Powder Coat Red Finish
- 16 Gauge CRS construction
- Embossed:
 - Key Ring Hooks
 - Business Card Holder
 - CD Case Slot
- 1.4 Oz. can of detector test gas
- Private labeling available

Key Ring
Hooks

Canned
Smoke

Business
Card Holder

CD Jewel
Case



Made In U.S.A.

ISO 9001
REGISTERED
COMPANY



ACEBOX

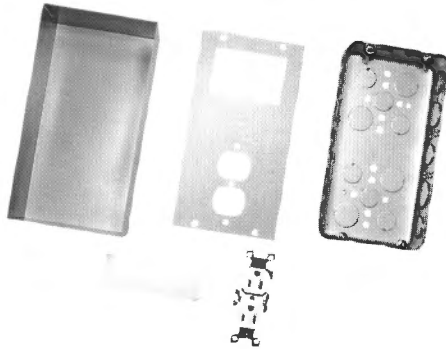
Space Age Electronics, Inc.
www.1sae.com
800.486.1723 Toll Free
508.485.0966 Local
508.485.4740 Fax



BOSCH

Invented for life

D8004 Transformer Enclosure



The D8004 Transformer Enclosure protects the AC plug-in transformer and ensures that it remains securely fixed to the AC wall outlet. The D8004 Transformer Enclosure may be required for certain applications; the most common being fire alarm.

Certifications and Approvals

Region	Certification
USA	<p>UL AMCX: Central Station Alarm Units (UL1610, UL1635), AOTX: Local Alarm Units (UL464, UL609), APAW: Police Station Alarm Units (UL365, UL464), NBSX: Household Burglar Alarm System Units (UL1023), UOXX: Control Unit Accessories, System (UL864, 9th edition), UTOU: Control Units and Accessories - Household System Type (UL985)</p> <p>FM</p> <p>CSFM 7167-1615: 100, 7165-1615: 112, 7165-1615: 119</p> <p>NYC-MEA 12-92-E, Vol. 12 12-92-E, Vol. 15</p>

Technical Specifications

Environmental Considerations

Environment: Indoor, dry

Mechanical Properties

Cover

Color:	Light gray
Dimensions:	8.8 in. x 4.7 in. x 3.0 in. (22.4 cm x 11.9 cm x 7.6 cm)
Material:	Cold-rolled steel, 18 gauge (1.2 mm)

Outlet Box

Dimensions:	8.7 in. x 4.6 in. x 1.7 in. (22.1 cm x 11.7 cm x 4.3 cm)
Material:	Galvanized steel, 18 gauge (1.2 mm)

Power Requirements

Voltage (supply): 120 VAC

Ordering Information

D8004 Transformer Enclosure **D8004**
For applications such as fire alarm that might require a transformer enclosure.

7744F/7788F

UL Listed

AES IntelliNet
CORPORATION | For Alarm Monitoring

RF Subscriber Unit

UL Fire, AA Burglary and NFPA-72 Compliant

UL Listed

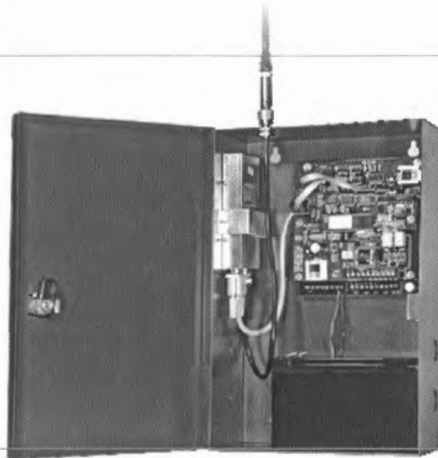
UL Listed Central
Station

Remote Station

864 Ed. 9, 827, 1610,
365, 681

CSFM

NFPA
RF Section 8.6.3.5



- Options for Full Data for Fire and Burglary
- Available in 7744F & 7788F Zone Configurations
- Built-in Power Supply and Battery Charger
- Local Annunciation Options on Board

Advanced Wireless Alarm Monitoring

The 7744F/7788F smart subscriber unit links an alarm panel to an alarm monitoring central station. This 2-way transceiver and repeater in one is housed in a full size locking steel cabinet for superior performance. The 7744F/7788F supports a wide range of inputs such as NO/NC/EOL and direct voltage. It automatically senses wire and antenna cuts, and monitors battery and AC power status. Advanced status reporting, self-diagnostics and a built-in power supply make the 7744F/7788F the first choice for all wireless alarm communication needs.

Full Data for Fire and Burglary

Use with the optional Firetap for full fire data or the IntelliTap for full fire and burglary data.

Available Configurations

7744F – 4 reversing polarity inputs plus 4 programmable EOL inputs

7788F – Programmable EOL inputs with 8 zones

Available Options

FireTap 7770
IntelliTap 7067
NEMA 4 Enclosure
High Gain Antenna
Additional Back Up Battery
Available in Burglary Beige or Fire Red



Wireless mesh networking is an innovative technology adopted by many industries with applications that need to communicate data over a large geographic area with a high level of reliability at a low total cost of ownership.

The advanced design and 2-way communications capability provides easy installation, expansion, and management when compared to alternative communication methods, both wired and wireless.

7744F/7788F RF Subscriber Unit

Technical Specifications

Radio

Standard CSAA frequency ranges:
450-470 MHz and 130-174 MHz, VHF
and UHF. Others available

Standard Output Power

2 watts (requires FCC license)

Power Input

16.5 VAC, 40VA UL listed
Class II transformer required

Voltage

12 VDC nominal

Current

175mA standby; 800mA transmit

Alarm Signal Inputs

- 4 individually programmable Zones:
NO/NC/EOL, trouble restore
- RS-232
- Reversing voltage (7744F only) 12
or 24 VDC

Operating Temperature Range

0° to 50°C, 32° to 122°F

Storage Temperature Range

-10° to 60°C, 14° to 140°F

Relative Humidity Range

0-85% RHC non-condensing

Back up Battery

12V, 7.5 AHR

Low Battery Reporting

22.5-minute test cycle

AC Status

Reports to central station after
approximately 60 minutes without AC
power, reports power restored after
approximately 60 minutes of restored
power. programmable from 60 to 180
minutes

Antenna Cut (local reporting)

Form 'C' Contact 1 AMP

Size

13.25"H x 8.5"W x 4.3"D
34cm x 21.5cm x 11cm

Weight

6.4 lbs, 2.9 Kilograms
(excluding battery)

Colors

Available in standard
Burglary Beige or Fire Red
Please specify when ordering

Available Options

- 7788F RF subscriber unit
with 8 EOL inputs
 - 7744F RF subscriber unit with 4
EOL inputs and 4 reverse polarity
inputs
 - 7770 - FireTap
 - 7067 - IntelliTap
 - NEMA 4 Enclosure
- Please specify when ordering

Available configurations

- 7788F, 8 EOL inputs
- 7744F, 4 EOL inputs w/4
reverse polarity inputs

AES-*IntelliNet*™ is the industry leader in delivering high quality wireless mesh networks to the fire and security industry in commercial, corporate, government, and educational applications with its broad line of products and advanced network management tools. Users of AES-*IntelliNet* networks have gained significant revenue, communications, and cost advantages while meeting the high standards of reliability required for the fire and security industry. AES-*IntelliNet* alarm monitoring systems are deployed at hundreds of thousands of locations in over 130 countries.



For more information

Call 800-AES-NETS (800-237-6387)

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Web www.aes-intellinet.com

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7744F/7788F/08/09

Z Strobes, Horns, Horn/Strobes

Features

- UL listed. ULC, CSFM, and FM pending.
- ADA/NFPA compliant
- EZ Mount design, with separate base plate, provides ability to pre-wire the base and test the circuit wiring before the walls are covered
- The base plate is protected by a disposable cover and the appliances can quickly snap onto the base after the walls are painted.
- EZ Mount Universal Mounting Plate (ZBB) – uses single plate for ceiling and wall mount installations
- Wall Mount models feature field selectable candela settings of 15/30/75/110cd and 135/185cd
- Ceiling Mount models feature field selectable candela settings of 15/30/75/95cd and 115/177cd
- Strobes can be synchronized using the Siemens 5406B sync modules, MPC-6000 panel, MPC-7000 panel, or RSE-300 power supply with built-in sync protocol
- “Special Applications” listed with Siemens panels
- Strobes produce 1 flash per second
- Selectable Continuous Horn or Temporal (Code-3) Tones with selectable 90 or 95 dBA setting (ZH model)

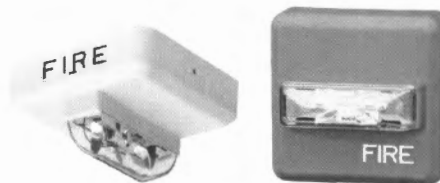
Description

The Siemens Series Z notification appliances feature an easy snap on base that is designed to simplify the installation and testing of horns, strobes, and horn/strobes. The separate Series Z snap on base can be pre-wired so circuit wiring can be fully tested before the appliance is installed and before the walls are covered. Once all surrounding work is complete, the appliance can be simply installed by snapping it on the base. Shorting contacts in the base, which provide continuity for circuit testing, are permanently opened when the appliance is installed so any subsequent removal of the appliance will indicate a trouble condition on that circuit at the control panel when circuit supervision is enabled. The same base is used for all Series Z horns, strobes and horn/strobes to provide consistent installation and easy replacement of appliances if required. A locking screw is also included for the appliance to provide extra secure installation.

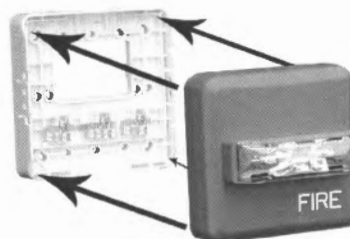
The Siemens Series Z appliances incorporate the same dependable circuitry and high efficiency optics that are used in Siemens ST strobes, NS horn/strobes and NH horns and have the same high performance ratings. The Series Z appliances are “Special Applications” listed with Siemens panels.



Series ZH



Series ZR



ZR AND ZH Mounting

Engineering Specifications

General

Audible/visual notification appliances shall be listed for indoor use and shall meet the requirements of FCC Part 15 Class B. These appliances shall be listed under UL Standard 1971, (Standard for Safety Signaling Devices for Hearing Impaired) and UL Standard 464 (Fire Protective Signaling). The appliances shall use a universal backplate that shall allow mounting to a single-gang, double-gang, 4-inch square, 4" octal, or a 3-1/2" octal backbox. Two wire appliance wiring shall be capable of directly connecting to the mounting back plate. Continuity checking of the entire NAC circuit prior to attaching any audible/visual notification appliances shall be allowed. A dust cover shall fit and protect the mounting plate. The dust cover shall be easily removed when the appliance is installed over the backplate. Removal of an appliance shall result in a trouble condition by the Fire Alarm Control Panel (FACP).

Strobes

Strobe appliances shall produce a minimum flash rate of 60 flashes per minute (1 flash per second) over the Regulated Input Voltage Range and shall incorporate a

Xenon flashtube enclosed in a rugged Lexan® lens. The strobes shall be available with two or four field selectable settings in one unit and shall be rated, per UL 1971, for up to 185 cd for wall mounting and 177 cd for ceiling mounting. The strobes shall operate over an extended temperature range of 32°F to 120°F (0°C to 49°C) and be listed for maximum humidity of 95% RH. Strobe inputs shall be polarized for compatibility with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP).

Audibles and Audible/Strobe Combinations

Horns and horn/strobes shall be listed for Indoor use under UL Standard 464. The horns shall be able to produce a continuous output or a temporal code-3 output that can be synchronized. The horns shall have at least 2 sound level settings of 90 and 95 dBA.

Synchronization Modules

When synchronization of strobes or temporal Code-3 audibles is required, the appliances shall be synchronized using the Siemens 5406B sync modules, MPC-6000 panels, MPC-7000 panels, or RSE-300 power supplies with built-in sync protocol. The strobes shall not drift out of synchronization at any time during operation. Au-

dibles and strobes shall be able to be synchronized on a 2-wire circuit with the capability to silence the audible if required. If the sync module or power supply fails to operate (i.e., contacts remain closed), the strobes shall revert to a non-synchronized flash rate. All notification appliances shall be listed for "Special Applications".

- Strobes are designed to flash at 1 flash per second minimum over their "Regulated Input Voltage Range".
- All candela ratings represent minimum effective strobe intensity based on UL Standard 1971.
- Series ZH 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%).
- Series ZH horns are listed under UL Standard 464 for audible signal appliances (Indoor use only).

Technical Information

For complete technical information, please consult the relevant installation sheets as well as the Siemens Compatibility Guide.

Ordering Information / Mounting Requirements / Approvals

Model Number	Order Code	Mounting Options#	Agency Approvals			
			UL	ULC	CSFM	FM
ZH-MC-R	500-636161	B, D, E, F	X	#	#	#
ZH-MC-W	500-636162	B, D, E, F	X	#	#	#
ZH-HMC-R	500-636163	B, D, E, F	X	#	#	#
ZH-HMC-W	500-636164	B, D, E, F	X	#	#	#
ZH-R	500-636159	B, D, E, F	X	#	#	#
ZH-W	500-636160	B, D, E, F	X	#	#	#
ZH-MC-CR	500-636165	B, D, E, F	X	#	#	#
ZH-MC-CW	500-636166	B, D, E, F	X	#	#	#
ZH-HMC-CR	500-636167	B, D, E, F	X	#	#	#
ZH-HMC-CW	500-636168	B, D, E, F	X	#	#	#
ZR-MC-R	500-636169	B, D, E, F	X	#	#	#
ZR-MC-W	500-636170	B, D, E, F	X	#	#	#
ZR-HMC-R	500-636171	B, D, E, F	X	#	#	#
ZR-HMC-W	500-636172	B, D, E, F	X	#	#	#
ZR-MC-CW	500-636174	B, D, E, F	X	#	#	#
ZR-MC-CR	500-636173	B, D, E, F	X	#	#	#
ZR-HMC-CR	500-636175	B, D, E, F	X	#	#	#
ZRS-HMC-CW	500-636176	B, D, E, F	X	#	#	#
ZBB-R	500-636193	Accessory - Includes base, dust cover, mounting screws and installation sheet				
ZBB-W	500-636194	Accessory - Includes base, dust cover, mounting screws and installation sheet				

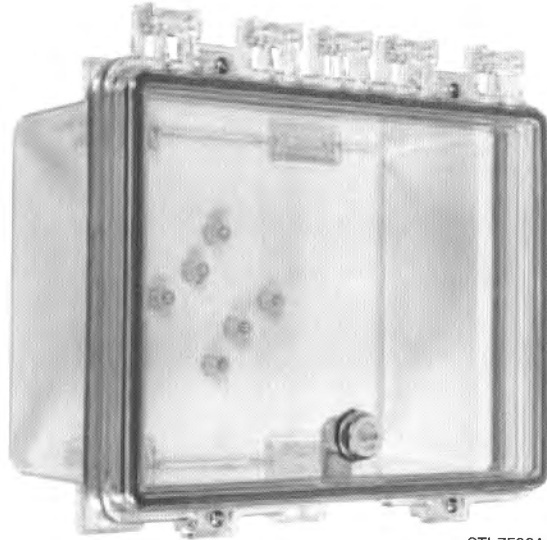
X = listed/approved # = pending * = Refer to Data Sheet #9675 for mounting options.

WARNING: PLEASE READ THESE SPECIFICATIONS AND INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. FAILURE TO COMPLY WITH ANY OF THESE 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.

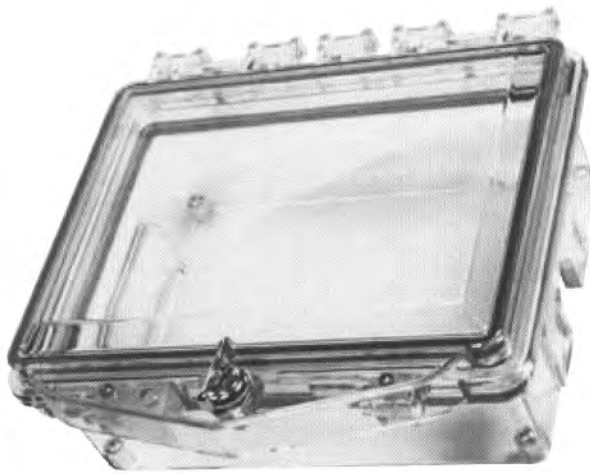


Siemens Building Technologies, Inc.
 8 Fernwood Road • Florham Park, NJ 07932
 Tel: (973) 593-2600 • Fax: (973) 593-6670
 Web: www.faradayfirealarms.com

STI Polycarbonate Enclosure



STI-7500A



STI-7511D

PRODUCT OVERVIEW

Multipurpose lockable enclosure for a wide range of larger size devices, components and instruments, such as keypads, annunciators and automated external defibrillators (AEDs) which require protection from vandalism, accidental damage, as well as the elements, such as dirt and grime. Spacers, integrated hinge and covers are formed from super tough polycarbonate material. The polycarbonate enclosures are backed by a lifetime guarantee against breakage and damage in normal use. STI enclosure is lockable with either a key or thumb lock.

FEATURES

- Protection for large units against physical damage, grime and severe environments.
- Key or thumb lock available.
- Mounting hardware and gaskets are included.
- Fast and easy installation.
- Can be used over volume or lighting controls.
- 94V-2 flammability rating.
- Cover, integrated hinge and spacers are formed from super tough polycarbonate material.
- Each protected unit can be clearly seen and quickly identified.
- Typical working properties of polycarbonate are -40° to 250°F (-40° to 121°C).
- Lifetime guarantee against breakage of polycarbonate in normal use.

STI Polycarbonate Enclosure

Dimensions and Technical Information

MODELS AVAILABLE

- STI-7500 Cover with key lock and backbox
- STI-7501 Cover with thumb lock and backbox
- STI-7510 Cover with exterior key lock and backbox
- STI-7511 Cover with exterior thumb lock and backbox

NOTE: Select backbox from below

Accessories

- 18021 NEMA 4X 3/4" rigid conduit hub for "A" backbox
- 18054 Replacement key #CH751
- SUB-318 Adapter plate used for mounting "A", "B" or "F" backbox to pedestal
- SUB-6297B20 3/4" conduit hub for "B", "C" and "F" backboxes
- STI-1283 Backplate

BACKBOX DESCRIPTION

- A Enclosed deep backbox
- B Enclosed backbox with double-gang electrical box
- C Open backbox for flush mount applications
- D Open conduit backbox, surface mount applications
- E Open backbox for flush mount applications
- F Enclosed backbox

APPROVALS & WARRANTY

TESTING

The STI-7500 series only has been tested and approved or listed by:
 · UL/cUL Listed No. S7255

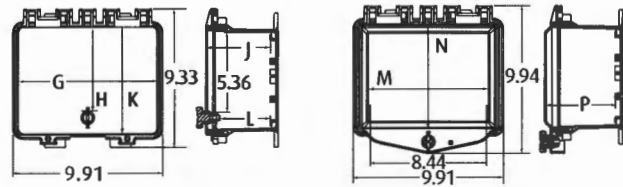
WARRANTY

Lifetime guarantee against breakage of polycarbonate in normal use.

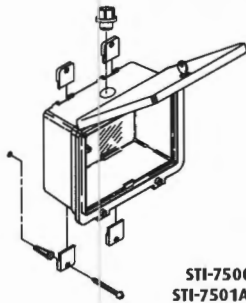
NOTICE

STI recommends replacement of gaskets every five years for outdoor applications.

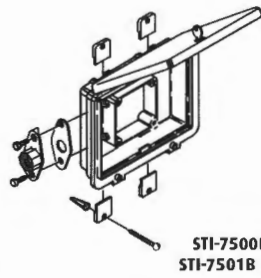
STI-7500/7501						STI-7510/7511			
B	G	H	J	K	L	M	N	P	
A	A	8.48	5.40	4.15	6.48	3.40	8.48	6.48	4.59
C	B	8.50	5.40	1.30	5.50	0.55	8.50	5.50	1.74
K	C	7.81	4.80	2.51	5.25	1.76	7.81	5.25	2.95
B	D	7.73	5.40	3.54	5.70	2.79	7.73	5.70	3.98
O	E	7.70	5.40	1.76	5.71	1.01	7.70	5.71	2.20
X	F	8.30	4.80	2.35	5.63	1.80	8.30	5.63	2.79



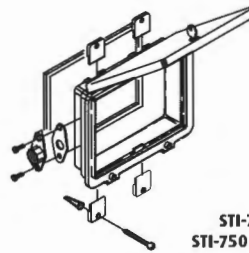
NOTE: Below pictures illustrate backbox differences.



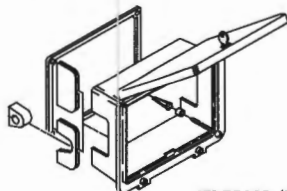
STI-7500A (KEY LOCK)
STI-7501A (THUMB LOCK)



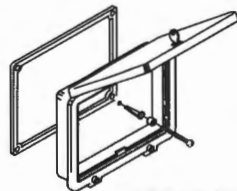
STI-7500B (KEY LOCK)
STI-7501B (THUMB LOCK)



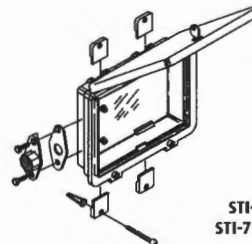
STI-7500C (KEY LOCK)
STI-7501C (THUMB LOCK)



STI-7500D (KEY LOCK)
STI-7501D (THUMB LOCK)



STI-7500E (KEY LOCK)
STI-7501E (THUMB LOCK)



STI-7500F (KEY LOCK)
STI-7501F (THUMB LOCK)



Safety Technology International, Inc.

2306 Airport Road
Waterford, Michigan
48327, USA

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Fax: 44 (0) 1527 501 999
Free: 0800 085 1678 (UK)
www.sti-europe.com

5817CB

WIRELESS COMMERCIAL TRANSMITTER



The 5817CB is a universal contact-monitoring transmitter that can be used with household and commercial fire and burglary-initiating devices such as door/window contacts, motion and glassbreak detectors, sprinkler water flow

switches, tamper switches, post indicator valves, manual pull stations and remote duct detectors. Upon activation, it emits an RF signal to a control panel, sending a burglary or fire alarm to a central station.

FEATURES

- The 5817CB has three unique input loops (zones).
- The first loop (primary loop) is supervised and typically used for high-priority alarm reporting such as commercial fire or burglary.
- The second loop is the built-in, normally closed reed switch used in conjunction with magnet.
- The third loop is another normally closed household burglary loop. All three loops may be used.
- A fourth (automatically enrolled) loop contains two tamper switches to protect the 5817CB.

MOUNTING

1. Remove the transmitter cover by inserting the flat blade of a small screwdriver into the pry-off slot at the bottom end of the unit (on the right side closest to the cover's decorative ribs and twisting).

2. Disengage the supplied mounting plate from the unit by inserting the blade of a small screwdriver into the mounting plate release hole (see Diagram 2) and pushing the locking tab out (see Diagram 1). Slide the mounting plate downward along the case back.

Note: For this application, the alignment guide strip along one edge of the mounting plate serves no function and may be broken away, if desired.

3. If concealed wiring is to be used, feed the wires through the concealed wiring entry hole on one corner of the plate (surface wiring is mentioned in step 5 below).

4. Install the mounting plate, with its caseholding posts pointing up, in the location selected as described in the

installation instructions. Use the two flat-head screws supplied. Note: To ensure proper operation of the unit's back tamper (when it is separated from the mounting plate), the screws must be anchored to a wall stud or other solid wood material.

5. Set the DIP switch (after the control panel has enrolled the transmitter's input ID's) for the desired primary loop characteristics, as described in the table on the following page.

5817CB

WIRELESS COMMERCIAL TRANSMITTER

Primary Loop Options Table				
Switch Setting	DIP Switch Position			
	1	2	3	4
On	Repeating transmission (every 4 sec.) upon primary loop fault use for high priority alarm, such as fire.	Switch must always be in the on position	Switch must always be in the on position	Switch must always be in the off position
Off	Single transmission per primary loop change-of-state			

Notes: a. In order for the control panel to enroll the transmitter, the DIP switches must be Set to OFF-ON-ON-OFF (see Diagram 2).
 b. The auxiliary loops are not affected by the DIP switch settings.

Wiring Connections

Connect the loop wiring to the unit's terminals before installing the battery (see Diagram 2).

Notes: a. Primary loop 1 is a supervised loop and must have an end-of-line (EOL) resistor (470K ohms, supplied) placed across the sensor.

Additionally, for primary loop 1, a contact device may not be installed more than 20 feet from the transmitter.

b. If loop 2 is not going to be used, the magnet is not necessary.

c. If loop 3 is not going to be used, no connection is needed across its terminals. For UL household burglary and fire installations, the loop 3 contact device (if used) may not be more than 3 feet from the transmitter.

SPECIFICATIONS:

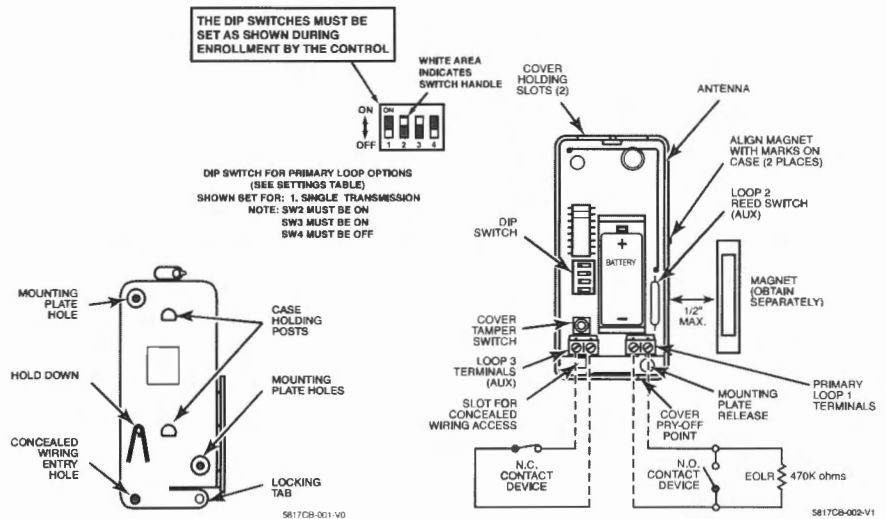
• Dimensions:

- 1-9/16"W x 3-1/2"H x 1-3/16"D
 (40mm x 89mm x 30mm)

- Battery 3v Lithium
 (see BATTERY INSTALLATION AND REPLACEMENT).

• UL Listings:

- Commercial Fire UL864
 - Household Fire UL985
 - Household Burg UL1023
 - Commercial Burg UL365, UL609, UL1076, UL1610



Note: For UL commercial and household fire installations, only one initiating device may be connected to this transmitter. For UL commercial burglary installations, multiple initiating devices may be used as long as the devices all service the same function such as door/window contacts, motion or glassbreak detectors. All initiating devices must be located within the same room.

ORDERING

5817CB Wireless Commercial/Household Transmitter

Honeywell Security & Custom Electronics

Honeywell
 2 Corporate Center Drive Suite 100
 P.O. Box 9040
 Melville, NY 11747
 www.honeywell.com

Honeywell

L/5817CB/D
 August 2007
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5809

WIRELESS HEAT DETECTOR



Honeywell's 5809 wireless fixed heat and rate-of-rise temperature sensor offers expanded fire detection and installation flexibility. It is ideal for hard to wire locations and applications that require more than smoke detection. With no wires to run, the 5809 is fast and easy to install. The 5809 combines both rate-of-rise and fixed temperature sensors. Fires typically cause a rapid rise in temperature in the

surrounding area. The 5809's rate-of-rise thermostat senses the rise in temperature and signals an alarm if the increase is 15° or more per minute. A built-in fixed temperature sensor will also signal an alarm if the environmental temperature rises above 135°F. The 5809 is UL Listed (UL521) and CSFM approved for commercial and residential applications.

FEATURES

- Contains a built-in transmitter which can send alarm, supervisory and battery condition messages to the system's receiver/control unit
- Powered by a three-volt lithium battery. If the battery voltage gets too low, the 5809 sends a low battery signal to the control panel
- Features a tamper switch, which causes a trouble signal to be sent to the control if the unit is removed from the mounting base
- UL Listed for Commercial (when using 5881EH Receiver) or Residential applications

5809

WIRELESS HEAT DETECTOR

SPECIFICATIONS:

• **Power:**

- 3V lithium battery (Duracell DL123A, Panasonic CR123A, Sanyo CR123A, Varta CR123A)
- Operating temperature: 40° to 140°F (6° to 60°C)
- Rate-of-rise temperature: 15°F (8°C) increase per minute (NOTE: Rate-of-rise sensor does not operate above 38°C)

- Fixed temperature: 135°F (57°C)
- Maximum spacing: 50 ft x 50 ft UL, 30 ft x 30 ft FM (refer to National Fire Alarm Code Standard NFPA 72 for application requirements)
- Dimensions: 4.4" diameter/2/2" deep

• **Agency Listings:**

- UL 521 Listed for Commercial (when using 5881EH Receiver) or

Residential applications

• **Wireless Transmission Path Test:**

- A good RF transmission path must be established from the proposed mounting location before permanently installing the detector. To determine that there is a good signal reception from the proposed location, perform the test procedure described in the installation instructions procedure.

MOUNTING THE DETECTOR:

- You can mount the 5809 on a wall or ceiling within the protection area:
- Wall mounting: Mount the detector 4" 6" from the ceiling
- Ceiling mounting: Mount the detector at least 4" from any wall. Make sure the normal ceiling temperature will not exceed 100°F (37.8° C).

- Refer to NFPA Standard 72 for detector spacing and other requirements. Maximum spacing for UL installations is 50' x 50'
- Avoid mounting the detector near heat generating devices (e.g. ovens, heat vents, furnaces, boilers)
- IMPORTANT: 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.

TESTING THE DETECTOR:

The test procedure should be performed to determine a good RF transmission path and again after installation is completed.

- CAUTION: The fixed temperature sensor is intended for one-time use. Prolonged heat during testing can damage the unit. If used carefully following the instructions described below, the heat from a portable hair dryer can be used to test the unit. If the round disk on top of the detector detaches, the detector must be replaced.
- Activate the control panel's test mode

- Use either method (a) or (b) or activate the detector

- (a) Press and release the activation button on the PC board assembly OR
- (b) Holding a portable hair dryer about 12 to 18 inches away from the detector, turn the dryer on and aim the warm air at the side of the detector.

CAUTION: Aiming the dryer directly at the round disk on the detector can damage the unit to be replaced.

- The system's keypad should beep and the detector's ID should be displayed

- Exit the control's test mode
FCC ID: CFS 8DL 5809

This device complies with part 15 of FCC rules.

Operation is subject to the following conditions:

- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

ORDERING

5809 Heat Detector

Honeywell Security & Custom Electronics

Honeywell
2 Corporate Center Drive Suite 100
P.O. 9040
Melville, NY 11747
www.honeywell.com

Honeywell

L/5809/D
October 2007
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5808W3

PHOTOELECTRIC SMOKE/HEAT DETECTOR WITH BUILT-IN WIRELESS TRANSMITTER



Honeywell's 5808W3 is a 3V lithium powered, photoelectronic smoke/heat detector with a built-in wireless transmitter. It is intended for use with any 5800 Series Wireless Receiver/Transceiver for residential installations (for commercial installations, the 5881ENHC or the 5883H receiver is required).

The transmitter can send alarm, tamper, maintenance (when control panels are equipped to process maintenance signals), and battery condition messages to the system's receiver.

Smoothing algorithms minimize nuisance alarms by smoothing out short term spikes from dust and smoke – virtually eliminating nuisance alarms.

Since there are no holes to drill or wires to run, you can preserve the beauty of the building while protecting it. The 5808W3 is an ideal smoke detector for those difficult to wire locations, applications where room aesthetics are critical, or where hazardous materials exist.

All models also feature a restorable, built-in, fixed temperature (135°F) thermal detector that is also capable of sensing a pre-freeze condition if the temperature is below 41°F.

FEATURES

- **Improved Robust RF Field Strength**

The distance between the detector and receiver has been significantly increased without the need for a repeater

- **Smoothing Algorithms**

Mathematical calculations in the detector's software that minimize nuisance alarms by smoothing out short term spikes from dust and smoke

- **Smart Check**

A signal is sent to the control panel when the detector requires cleaning. This allows a regular, non-emergency service call to clean the detector before it goes into alarm.

- **Drift Compensation**

Virtually eliminates nuisance alarms from long-term dust build-up by automatically adjusting the detector's sensitivity

- **Removable Detector Cover and Chamber Top**

The technician is able to quickly and easily clean the detector chamber without disassembling the detector head

- **Approved UL Listings for Residential and Commercial Applications**

Both residential and commercial installation requirements are met

- **Additional LED Status Indicators**

Identifying between alarm or trouble conditions is a snap with green and red LED status indicators. A green LED denotes a normal condition while the red LED indicates abnormal conditions.

- **Easy-to-install Mounting Base**

The sturdy mounting base allows the detector to be more easily installed on uneven surfaces (i.e. stucco). The mounting base has larger mounting ports, which accommodate drywall anchors for easy surface mounting.

ADDITIONAL FEATURES:

- Utilizes one long-life 3V lithium battery
- Microcontroller runs on a 4.0 MHz clock
- Horn operates at 3.3 KHz with sound pressure level of 85 dBA at 10 feet
- Built-in wireless transmitter, temporal code 3 sounder
- Maintenance signal fully complies with the sensitivity test requirement specified in NFPA 72, 7-2.2 and is approved by UL

5808W3

PHOTOELECTRIC SMOKE/HEAT DETECTOR WITH BUILT-IN WIRELESS TRANSMITTER

SPECIFICATIONS

- **Dimensions**
 - Diameter: 5.3"*, Height: 2.30"
- **Weight**
 - 8.5 ounces (without batteries)
- **Operating Temperature**
 - 32–100° F (0–37.8° C)
- **Humidity Range**
 - 0% to 95% RH, non-condensing
- **Air Velocity**
 - 1,000 ft./min. max.
- **Operating Voltage**
 - 2.5–3.6VDC
- **Standby Current**
 - 8.5 mA avg.
- **Alarm Current**
 - 35 mA max.
- **Power Source**
 - One 3V CR123A lithium Battery†
- **Audible Output**
 - 85 dB min. at 10 ft.
- **Fixed Temperature Heat Sensor**
 - 135° F Fixed
- **Agency Listings**
 - UL268 – Commercial and Residential

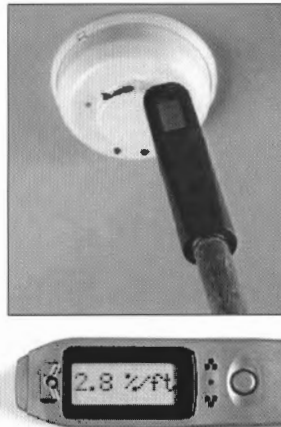
* With adapter bracket (4.9" without mounting base)

† Replacement batteries include Duracell DL123A, Sanyo CR123A, Panasonic CR123A, or ADEMCO 466

ACCESSORIES (sold separately)

SENS-RDR Infrared Sensitivity Reader

Reduce testing time with the handheld SENS-RDR infrared sensitivity reader. The reader simplifies sensitivity measurements and displays them precisely in terms of percent per foot obscuration. The SENS-RDR eliminates the need for magnets, voltmeters and ladders.



RT Removal Tool

Simplifies the attachment and removal of the detector head to the mounting base; it may be attached to a threaded extension pole or broom handle thereby eliminating the need for ladders.



ORDERING

5808W3 Photoelectric Smoke/Heat Detector with Built-in Wireless Transmitter

Accessories sold separately:

SENS-RDR Hand-held Sensitivity Reader

RT Removal Tool used for easy installation and removal of head from base

Automation and Control Solutions

Honeywell Security & Communications
2 Corporate Center Dr. Suite 100
P.O. Box 9040
Melville, NY 11747

www.honeywell.com

Honeywell

L/5808W3DS/D
September 2008
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5193SD/5193SDT

V-PLEX® ADDRESSABLE SMOKE DETECTOR



Honeywell's 5193SD/SDT Addressable Photoelectric Smoke Detector is designed to provide open area protection and to be used with compatible UL-listed Honeywell control panels that support V-Plex technology. The detector incorporates a state-of-the-art optical sensing chamber and an advanced microprocessor. Built-in Drift Compensation algorithms automatically maintain proper operation at factory calibrated detection levels, even when sensitivity is altered due to the presence of contaminants settling into the unit's chamber. The 5193SDT also features a restorable, built-in, fixed temperature (135° F/57.2° C) thermal detector.

FEATURES

- **Easy Installation:** Installation of the 5193SD/SDT detector is simplified by the use of a mounting base that may be pre-wired to the system, allowing the detector to be easily installed or removed for maintenance or service. (See Figure 1).
- **LED Status Indicators:** Two LEDs (green and red) provide local visual indication of the detector's status – including normal operation, alarm, out of sensitivity and trouble conditions.
- **Test button:** This button allows the user to perform periodic testing of the detector's circuitry and verify that the detector is within the sensitivity limits.
- **Versatile Mounting:** Mounting is made simple with the included hardware and the large mounting ports, which accommodate drywall anchors for easy surface mounting. (See Figure 1).
- **Tamper Protection and Tamper Resistance:** The detector contains a built-in tamper switch that can communicate back to the control panel in the event the detector is removed from its base. For an added level of security, the detector also includes a tamper resistant element that prevents removal from the base without the use of tools. (See Figure 1).

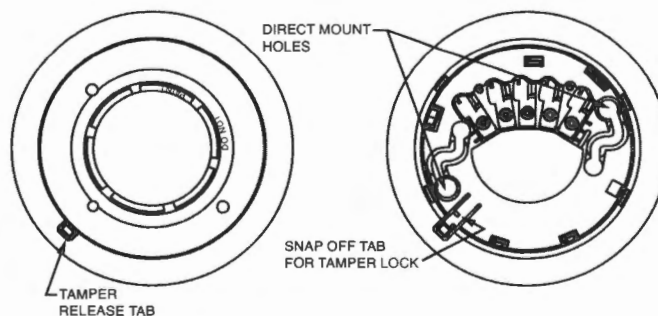


Figure 1: Tamper-Resistant Feature/Wiring

5193SD/5193SDT

V-PLEX® ADDRESSABLE SMOKE DETECTOR

SPECIFICATIONS

- **Heat Sensor:** (Model 5193SDT):
135° F (57.2° C);
Fixed Temperature Electronic Thermistors
- **Operating Ambient Temperature Range:**
32° to 100° F (0° to 38° C)
- **Operating Humidity Range:**
0 to 95% RH non-condensing
- **Storage Temperature Range:**
-4° to 158° F (-20° to 70°C)
- **Diameter (including base):** 5.3 inches
- **Height (including base):** 2.0 inches
- **Weight:** 6.3 oz.
- **Agency Listing:** UL-268
- **System Voltage Range:** 7-14V
- **Standby Current** (maximum @ 12V)
LED off: 1.2mA
LED on: 2.8mA

ACCESSORY (sold separately)

To measure the detector's sensitivity, the **SENS-RDR Infrared Sensitivity Reader tool (sold separately)** should be used. It reduces testing time, simplifies sensitivity measurements and displays them precisely in terms of percent per foot obscuration. The SENS-RDR eliminates the need for magnets, voltmeters and ladders.

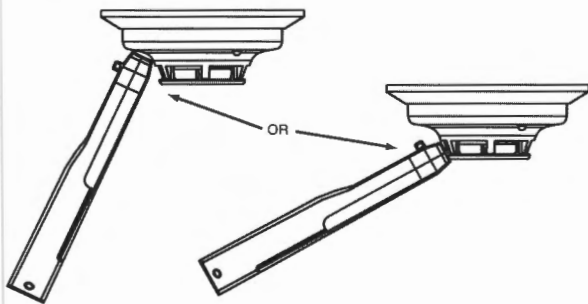
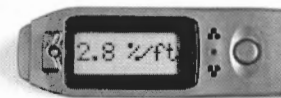


Figure 2: Position of Reader



ORDERING

- | | |
|----------------|--|
| 5193SD | Addressable Photoelectric Smoke Detector |
| 5193SDT | Addressable Photoelectric Smoke Detector with Integral Heat Sensor |

Accessory sold separately:

- | | |
|-----------------|-----------------------------|
| SENS-RDR | Handheld Sensitivity Reader |
|-----------------|-----------------------------|

Automation and Control Solutions
Honeywell Security & Communications
2 Corporate Center Dr. Suite 100
P.O. Box 9040
Melville, NY 11747
www.honeywell.com

L/5193SDT/D
May 2009
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Honeywell



5140MPS-1 / 5140MPS-2 Manual Pull Stations

PRIMARY FEATURES

- ADA COMPLIANT
- KEY TEST OR ALLEN RESET
- KEYED TO ADEMCO CONTROLS
- STYLIZED HIGH TECH DESIGN
- ALUMINUM DIE CAST HOUSING
- TERMINAL BLOCK OR WIRE LEADS
- GOLD CONTACTS
- UL LISTED

■ GENERAL DESCRIPTION

Ademco's manual fire alarm stations are designed to be non-code single action devices for use in UL listed fire alarm applications. The attractive die-cast aluminum-alloy housing meets ADA pull requirements and has been tested at Underwriter's Laboratory.

For ADA compliance, manual stations must be mounted less than 48" above the floor for front wheelchair access and less than 54" above the floor for side wheelchair access.

A key reset feature on the 5140MPS-1 is designed for positive authorized resetting action. The key is designed to operate and match Ademco controls. The 5140MPS-1 utilizes a terminal block for secure terminations. The 5140MPS-2 is furnished with an Allen hex fitting and is equipped with wire leads.

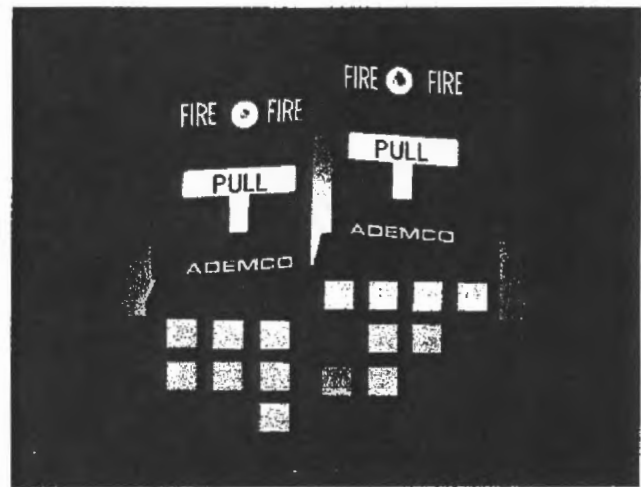
Two alarm deterrent break tubes are supplied with each manual station; one tube is visible from the front, and the spare is stored in a compartment within the unit.

■ OPERATION

Pulling the handle down causes the manual stations to latch in the down position and to close the normally open switch. The handle is restored manually by using the key to unlock the station and pivot the station forward for resetting the pull handle to its normal position. The crush tube is then inserted in the cavity and the station assembly is then locked in the normal upright position.

■ CONSTRUCTION

The 5140MPS-1 and 5140MPS-2 manual stations are constructed of a durable die-cast aluminum-alloy and



provide a neat and distinctive appearance. The housing is finished in red with white raised lettering and the "T-bar" handle is white with raised red lettering for enhanced visibility. The units are adaptable to both surface and semi-flush mounting configurations.

■ MOUNTING

SEMI-FLUSH MOUNT

Most semi-flush mount installations can be attached to a standard single-gang switch box using two 6-32 screws inserted through the slots that are centered on the unit's metal mounting plate.

SURFACE MOUNT

Use Ademco Backbox model number 5140MPS-BB for surface mount installations. The Backbox has four pre-drilled mounting holes of 0.187 inch diameter and conduit knockouts. Secure the Backbox to a wall with screws of size 8 or smaller. After the Backbox is in place, attach the conduit.

The housing is locked by using a key or Allen wrench lock. Unlock the housing by turning the key clockwise and swinging down the front of the housing to make the sheet metal mounting plate accessible. Mount the metal plate to the Backbox using the four 1/4" long, 8-32 screws (supplied).

■ DIMENSIONS

4.75" H x 3.12" W x 2" D

ADEMCO

The Technology Leader

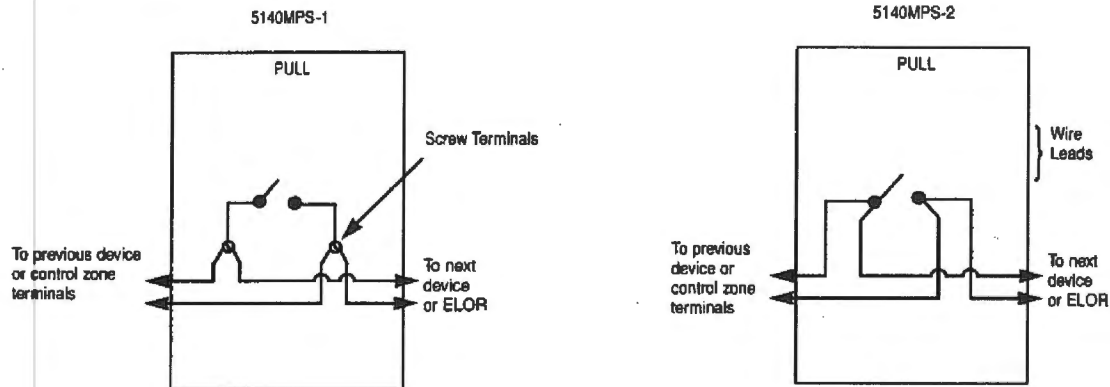
■ ORDERING INFORMATION

5140MPS-1: Manual Station
Key Reset Test
and Terminal Block

5140MPS-2: Manual Station
Hex Allen Reset
Test and Wire Leads

5140MPS-BB: Surface Backbox

■ WIRING DIAGRAM



ARCHITECTURAL/ENGINEERING SPECIFICATIONS

Manual Fire Alarm Station Model 5140MPS-1 (5140MPS-2) shall be non-coded and include a break-type tube operated test-reset lock allowing testing with a key (Allen wrench). They shall be designed so that normal operation cannot be restored after an actual Fire Emergency Operation except by use of a key (Allen wrench). The key shall fit all standard Ademco controls.

An operated station shall automatically condition itself so as to be visually detected, as operated, at a mini-

imum distance of one hundred feet, front or side. Manual Stations shall be constructed of die cast aluminum alloy with clearly visible operating instructions provided on the cover. The word FIRE shall appear on the front of the stations in raised letters. Stations shall be suitable for surface mounting on matching Beckbox, or semi-flush mounting on a standard single-gang box. Manual Stations shall be Underwriter's Laboratories Listed.

ADEMCO

The Technology Leader

Installation Instructions

4193SN Serialized Interface Module (SIM)

The 4193SN is a serialized two-zone expander used to connect alarm sensing devices to controls which support serial number polling loop devices (i.e., Vista-40, Vista-50P, and Vista-100).

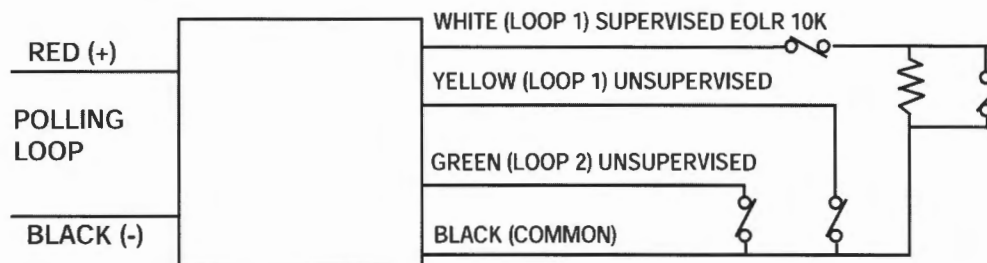
The 4193SN can be configured as one supervised zone (10K EOLR) and one unsupervised zone, or two unsupervised zones (normally closed devices only).

Consult the control panel installation instructions for programming information.

Electrical Specification:

Voltage: 7-11VDC (as supplied from the Ademco control panel for multiplex polling loop)

Current: 1.5mA



Wiring Diagram



LISTED
S789

For Fire Applications:

The 4193SN must be mounted inside the control panel cabinet or inside a UL-Listed junction box. Loop 1 must be used in the supervised configuration for Fire. Loop 2 may be used for Burglary.

For UL Burglary Applications:

If using an unsupervised zone of the 4193SN, the unit must be mounted within 3 feet of the alarm initiating device, with no intervening barriers.

ADEMCO

4193SN Serialized Interface Module (SIM)

- For connecting alarm sensing devices and switches to Ademco multiplex polling loop
-

Quantity: 1 ea.

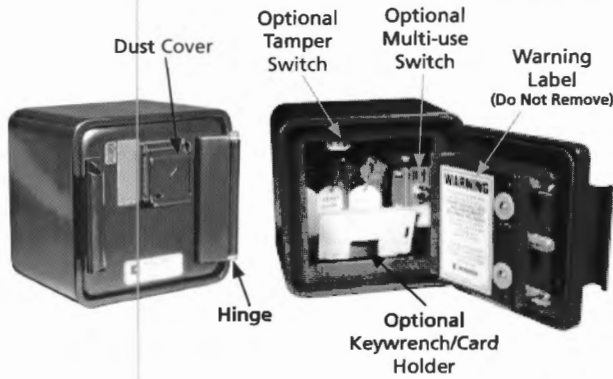
**Requires control panel with SERIAL NUMBER device capability
(e.g. Vista-40, etc.)**

Consult control panel instructions for compatibility



LISTED
S789

High Security Commercial Key Vault



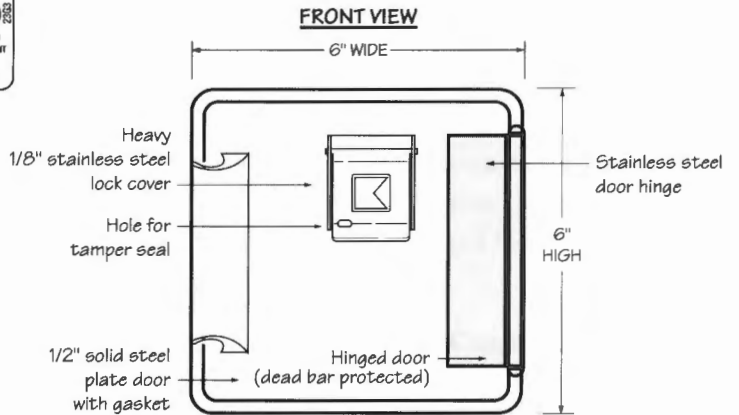
A new Knox-Box that's for those applications where a 3200 Series is too small yet the 4400 Series too large. The high security 4100 Series has a hinged-door allowing for the convenient single-handed operation. The 4100 Series Knox-Vault protects and stores building keys, access cards and the Knox FDC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

Features and Benefits

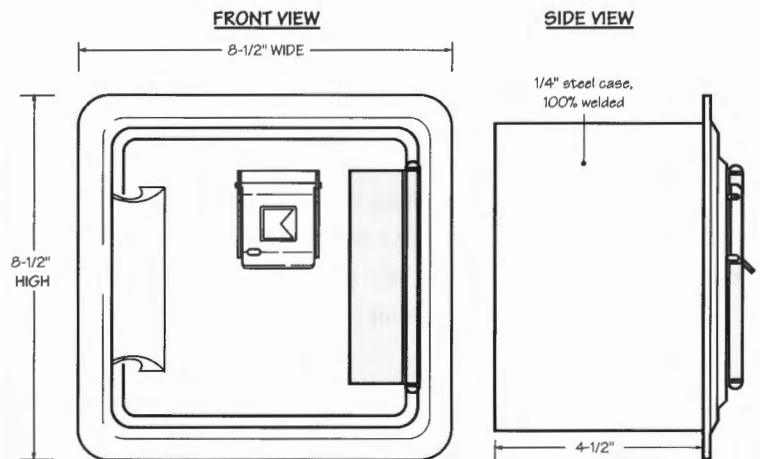
- Holds up to 24 keys in the large interior compartment
- Ensures high security with UL listed Medeco lock(s)
- Includes Knox-Coat® that is four times better than standard powder coat
- Resists moist conditions with a weather resistant silicone door gasket
- Colors: Black, Dark Bronze or Aluminum
- Weight: Surface mount - 17 lbs.
Recessed mount - 19 lbs.

Options

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



4100 Surface Mount



4100 Recessed Mount

Ordering Specifications

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

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

Exterior Dimensions: Surface mount – 6"H x 6"W x 4 1/2"D
Recessed mount – 8 1/2"H x 8 1/2"W x 4 1/2"D

Lock: UL Listed. Double-action rotating tumblers and hardened steel pins accessed by a proprietary coded biased cut key.

Finish: Knox-Coat® proprietary finishing process
Finish Color - Black, Dark Bronze or Aluminum

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

Mfr's Name: **KNOX COMPANY**

Vista 250

Quantity	Part #	Description	Standby	Alarm	Total standby	Total alarm
1	V250	Fire Panel (maximum)	0.305	0.485	0.305	0.485
1	6160CR	Annunicator	0.150	0.150	0.150	0.150
	4208SN	Expander	0.001	0.033	0.000	0.000
1		Sprinkler	0.001	0.001	0.001	0.001
11		Pull Station	0.001	0.001	0.011	0.011
	2W	Smoke	0.000	0.130	0.000	0.000
	4W	Smoke	0.020	0.023	0.000	0.000
		heat	0.000	0.000	0.000	0.000
10		Addressable smoke	0.001	0.001	0.010	0.010
		Motion	0.015	0.022	0.000	0.000
		Duct Detector	0.001	0.001	0.000	0.000
		Duct smoke	0.001	0.001	0.000	0.000
		Duct relay	0.001	0.001	0.000	0.000
		Duct Remote	0.001	0.001	0.000	0.000
		Remote light	0.001	0.001	0.000	0.000
			0.000	0.000	0.000	0.000
1		NAC Trigger only	0.000	0.001	0.001	0.001
		NAC power maximum (24V)	0.000	3.400	0.000	0.000
		NAC power maximum (12V)		2.300	0.000	0.000
					0.000	0.000
					0.000	0.000
		Miscellaneous			0.000	0.000
TOTAL			0.499	6.552	0.478	0.658

	Hours	Standby current		Total
	24	0.4780		11.472
Minutes		Alarm current		
5	0.08333333	0.6580		0.055
		Battery Capacity		
	10%	11.5268		12.680

Sequence of Operations

	Audio/visual activation	Activate audible/visual signal at FACP & Annunciator	Device Description at FACP & Annunciator	Shutdown of HVAC equipment	Log event in system history	Activate Elevator Fire Hat	Activate Elevator primary or secondary control	Activate Elevator shunt trip	Silence of audible devices Including FACP & annunciator	Release door holders	Release locked doors	Event acknowledgement	Reset of all system functions and all visual devices	Remote transmission to Central Station A=alarm; T=trouble; S=Supervisory; L = log only	Remote indicator
Manual Pull Stations	X	X	X		X					X	X			A	
Smoke detectors common area	X	X	X		X					X	X			A	
Smoke detectors elevator lobbies	X	X	X		X		X			X	X			A	
Smoke Detectors elevator shaft/machine room	X	X	X		X	X	X			X	X			A	
Duct mounted Smoke Detectors		X	X	X	X									S	X
Heat Detectors common area/inside apartments	X	X	X		X					X	X			A	
Heat Detectors Elevator shaft/machine room	X	X	X		X	X		X		X	X			A	
Sprinkler flow or pressure switches	X	X	X		X					X	X			A	
Sprinkler Tamper, low temp, or low air		X	X		X									S	
Secondary fire panel such as kitchen hood	X	X	X		X					X	X			A	
FACP/annunciator silence button		X	X		X				X					L	
FACP/annunciator acknowledge button		X	X		X							X			
FACP/annunciator reset button		X	X		X								X	L	
Removal of any device		X	X		X									T	
Ground fault		X	X		X									T	
System wiring "open"		X	X		X									T	
AC Power loss		X	X		X									T	
Secondary power loss		X	X		X									T	
Telephone line loss		X	X		X									T	