

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND BUILDING PERMI'



This is to certify that <u>PROTECTION PROFESSIONALS</u> of <u>325 US Route 1, Falmouth, Maine 04105</u> For installation at <u>146 SHERMAN ST</u> <u>Apartment building</u>

Job ID: 2011-12-2987-FAFS

CBL: 048- E-001-001

has permission to install supervised fire alarm

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

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED. A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY PENALTY FOR REMOVING THIS CARD BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 or 874-8693 (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.

Final Fire

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.



Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Director of Planning and Urban Development Penny St. Louis

Job ID: <u>2011-12-2987-FAFS</u> install supervised fire alarm For installation at: 146 SHERMAN ST Apartment Building CBL: 048- E-001-001

Conditions of Approval:

Fire

The fire alarm system shall comply with the City of Portland Standard for Signaling Systems for the Protection of Life and Property. All fire alarm installation and servicing companies shall have a Certificate of Fitness from the Fire Department.

In field installation shall be installed per code as conditions dictate.

Automatic detection shall be installed as required by 101:31.3.4.4 with the following exceptions: bathrooms not exceeding 55 ft²; closets not exceeding 24 ft².

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

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

All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP labeled "FIRE ALARM RECORDS".

Installation of a Fire Alarm system requires a Knox Box to be installed per city ordinance.

The fire alarm system shall be certified by a master fire alarm company and have a new fire alarm inspection sticker.

System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.

Fire Alarm system 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.

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-12-2987-FAFS	Date Applied: 12/28/2011		CBL: 048- E-001-001			
Location of Construction: 146 SHERMAN ST	Owner Name: QUALITY PROPERTIES	8	Owner Address: 148 BREAKWATE		DRTLAND, ME 04106	Phone: 207-774-0761
Business Name:	Contractor Name: PROTECTION PROFES	SIONALS	Contractor Addr 325 US ROUTE 1 -	ess: FALMOUTH ME	04105	Phone: (207) 775-5755
Lessee/Buyer's Name:	Phone:		Permit Type: FIRE ALARM -		· · · · · · · · · · · · · · · · · · ·	Zone: R-6
Past Use:	Proposed Use:	dential	Cost of Work: \$13,000.00			CEO District:
Four residential dwelling units w/one illegal unit (permit #2011-07-1592 applied for)	Same: four legal resi dwelling units & one to install fire alarm		Fire Dept:	Approved L Denied N/A	(conditions	Inspection: Use Group: Type:
			Signature: Bfc	und. (5	58	Signature:
Proposed Project Description Install Fire Alarm	1:		Pedestrian Activ	ities District (P.A	.D.)	1
Permit Taken By: Lannie				Zoning Appr	oval	
		Special Z	one or Reviews	Zoning Appea	I Historic Pr	eservation
 This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building Permits do not include plumbing, septic or electrial work. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work. 			ls one sion	Variance Miscellaneous Conditional Us Interpretation Approved Denied	se Does not l Requires l Approved Approved Denied	
		Date: 0K	by Marke.	Date:	Date:	Ч

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 O	NE WORK TITLE	DATE	PHONE



Fire Alarm Permit 325 Follow 04/05

1

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: 146-148 Sherman Street	CBL: 48-E-1			
Exact location: (within structure)				
Type of occupancy(s) (NFPA & ICC): Apartments	Larl 4 un			
Building owner: Mary and Jeff Cuevas auflity fro	sertis - 143 Breakwath Dr #216			
Must be System Designer (point of contact): Rich Brobst, Jr	50. Pot 041010			
Designer phone: 207-775-5755	E-mail: rich@protectionprofessionals.ne			
	Certificate of Fitness No: M1001			
Contractor phone: 839-3223	E-mail:			
This is a new application: YES (NO New	AES Master Box: YES ONO NO O			
Amendment to an existing permit: YES O NO O Perm	nit no:			
The following documents shall be provided with this application:				
Floor plans Scope of Work	COST OF WORK: \$12,522,87			
Wiring diagram 11 ½ x 17s	PERMIT FEE:			
Annunciator details pdf copy (may be e-mailed)	(
Input/ Output Matrix Designer qualifications	RECEIVED			
Equipment data sheets Statery/ voltage drop calcs	DEC 28 2011			
Electrical Permit Pulled (check alarm/com)				
Master box approval only: YES NO NO (If yes check <i>New AES Master Box</i> above)	Dept. of Building Inspections City of Portland Maine			
The <u>designer</u> shall be the responsible party for this application. De	ownload 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 ½ 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:	HANNEL	Date: 12-28-11	

CITY OF PORTLAND, MAINE Department of Building Inspections
Original Receipt
12. 27. 20 11
Received from Protection Professionals- Location of Work 146-149 Shere
Cost of Construction \$ Building Fee:
Permit Fee \$ Site Fee:
Certificate of Occupancy Fee:
Total:
Building (IL) Plumbing (I5) Electrical (I2) Site Plan (U2)
Other
CBL: 18-2-1
Check #: 10 Color Total Collected \$ 150
No work is to be started until permit issued. Please keep original receipt for your records. Taken by:
YELLOW - Office Copy PINK - Permit Copy

Honeywell

VISTA-128FBP/V128FBP-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-128FBP 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 128 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-128FBP has been designed to mount quickly and easily in an attack resistant cabinet, and is available in 12V and 24V models.

FEATURES

- Eight hardwired zones standard, expandable to 120 V-Plex addressable points/zones or 128 wireless points/zones
- Can control eight separate areas independently (8 partitions)
- Supports commercial wireless fire and burglary devices
- Stores up to 512 events
- Accommodates 150 user codes and up to 250 access card holders using VistaKey

- Supports V-Plex addressable VistaKey access control (1 to 8 doors)
- 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

- Supports Remote Cortrol via the Internet*
- Supports Internet Alarm Reporting*
- Supports Graphical User Interface Consoles
- Listed to UL864 9th Edition
- Upload/download via Ethernet*
- Carbon monoxide (CO) zone support
- * When used with Alam Net devices.

VISTA-128FBP/V128FBP-24

COMMERCIAL PARTITIONED FIRE AND BURGLARY ALARM CONTROL PANEL

ADDITIONAL FEATURES

- Notification Appliance Circuits (two):
 Programmable
 - Temporal code compliant
- 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
- Supports commercial hardwired, addressable V-Plex polling loop and wireless zones
- Hardwired zones
- Provides eight style B hardwired zones
- EOLR supervised for Fire and UL burglary installations
- Supports N.O. or N.C. sensors
- Individually assignable to any eight partitions
- Up to 32 two-wire smoke detectors each on zone one and two (64 total)

- Up to 50 two-wire glassbreak detectors on zone eight
- Patented addressable V-Plex polling loop technology
 - Supports 120 two-wire zones 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 128 wireless zones/points

- Supervised by control for check-in signals
- Tamper protection for transmitters
- Individually assignable up to eight partitions
- Supports commercial wireless smoke detectors
- Access Control integration

 Full integration with PassPoint Access Control System Complete Gateway interface of VISTA and access functions
- Up to eight doors using VistaKey V-Plex Access Control
- Event reporting
- Local printer of access or VISTA related events
- Communication
 Phone mapping by zone response type
 - Panel operation during download

Honeywell

Honeywell

SPECIFICATIONS

Applications

The VISTA-128FBP control is well suited for a variety of applications as an integrated fire and burglary control. A diverse line of Honeywell 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.

Electrical

- Primary power: 18VAC @ 72VA Honeywell 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-128FBP/V128FBP-24

COMMERCIAL PARTITIONED FIRE AND BURGLARY ALARM CONTROL PANEL

COMPATIBLE DEVICES

Auxiliary Devices

- 6160CR-2 Red Alpha Keypad
- 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) Devices

4208U Loop Expansion Module
 eight zones

Product specifications subject to change.

• 4101SN Single Relay/Zone Module

• 4208SNF Class A/B Expander Module

- 4190SN Remote Point Module
- two zones
- 4193SN Two-Zone Serial Interface Module
- VSI Module
- 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 Celular Communicator
- 7845i-GSM Internet and Digital Cellular Communicator
- GSMCF/IGSMCF Commercial Fire Communication Kits (when available)

ORDERING

V128FBP-9 V128FBP9-24 Commercial Fire and Partitioned Burglary Alarm Control Panel 12V Model 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

Honeyvell

L/VSTA128FBPD/D September 2009 © 2009 Honeywell International Inc.

Protection Professionals

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

Device List

No. 3436

List Date

12/15/2011

Estimate No.

Bill To Name / Address	Job Site
Mary Cuevas	146-148 Sherman Street
140 D L . D' TT . HOLE	

148 Breakwater Drive, Unit #216 South Portland, ME 04106

Job Site	
146-148 Sherman Street Portland, Maine	

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

Description Qty To Order Qty Ordered Item V128FBP-PAK1 Vista- 128 FBP kit, includes V128FBP, 6160CR, 5140DLM, Red transformer 1 enclosure requires 120VAC direct Bat 12-12 Battery 2 **5881ENHC** Wireless receiver for commercial burglary and 5800 devices 1 06-SSU00672 Fire Document box 12 inches wide X 13.1 inches high X 2.25 inches deep, CAT 1 30 keyed SF-STI7510E Keypad cover with lock set 1 Ademco cam lock assembly 8085 2 AD-TG7FS Fire Alarm Communicator, cell based 1 Bat 12-7 **12V 7AH Batteries** 1 D8004 **UL TRANSFORMER KIT** 1 Smoke Detector w/ Base (over FACP) **BK-2WB** 1 135°F Fixed Temp/Rate-of-Rise, Single-Circuit Mechanical Heat Detector 2 BK-5601P (basement) 5193SD Addressable Smoke Detectors 10 5140MPS-1 Manual Pull Station 12 4193sn Interface device (v-plex) 12 29 Wireless Heat Detector, 135 fixed temperature and rate of rise 5809 NAC power supply, 24 or 12 VDC, 6.5 amps, two Class A or four Class B at 2.5 AX-AL602ULADA 1 amps/circuit, 1 amp Aux power 12V 7AH Batteries Bat 12-7 2 ZH-MC-R Horn/strobe, red, wall mount, Hi or Lo volume, 15cd, 30cd, 75cd, or 500-636161 11 110cd State of Maine Sales Tax

Ordered By:

Date:	
Date:	

Received By:

<u>Vista 128</u>

Quantity	Part #	Description	Standby	Alarm	Total standby	Total alarm
1	V128	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
			1.000	0.000	0.000	0.000
		Pull Station	0.000	0.000	0.000	0.000
1	2W	Smoke	0.000	0.130	0.000	0.130
	4W	Smoke	0.020	0.023	0.000	0.000
		heat	0.000	0.000	0.000	0.000
			0.001	0.001	0.000	0.000
		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
			0.000	0.000	0.000	0.000
		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			1.497	6.549	0.455	0.765

	Hours	Standby current	Total
	24	0.4551	10.921
Minutes		Alarm current	
5	0.08333333	0.7650	0.064
		Battery Capacity	
	10%	10.9850	12.083

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" ridgid 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: \cdot UL/cUL Listed No. S7255

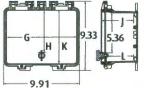
WARRANTY

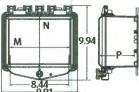
Lifetime guarantee against breakage of polycarbonate in normal use.

NOTICE

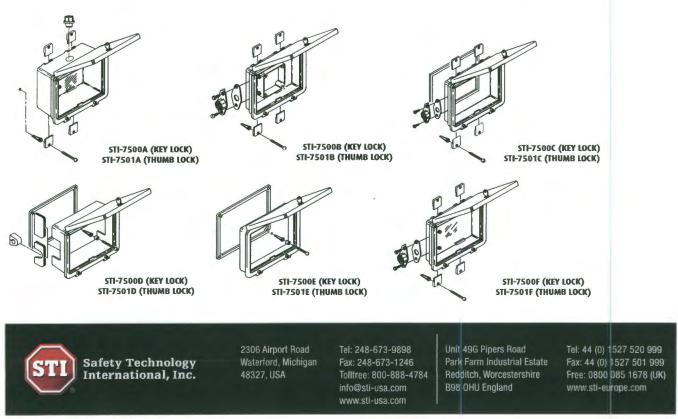
 $\ensuremath{\mathsf{STI}}$ recommends replacement of gaskets every five years for outdoor applications.

	STI-7500/7501				STI-7510/7511					
B		G	н	J	к	L	м	<u>N.</u>	Р	
A	A	8.48	5.40	4.15	6.48	3.40	8.48	6.48	4.59	
0	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	
3	D	7.73	5.40	3.54	5.70	2.79	7.73	5.70	3.98	
)	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	1.60	8.30	5.63	2.79	
								-		





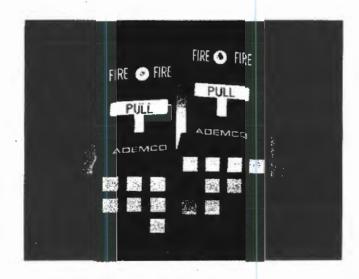
NOTE: Below pictures illustrate backbox differences.





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 oull 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 eluminum-alloy and

provide a neat and distinctive appearance. The housing is finished in red with white raised lettering and the "Tbar" 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 514OMPS-BB for surface mount installations. The Backbox has four predrilled 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 Eackbox 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 awinging down the front of the housing to make the sheet metal mounting plate accessible. Mount the metal plate to the Backbox using the four $1/4^{\circ}$ long, 8-32 screws (supplied).

DIMENSIONS

4.75" H x 3.12" W x 2" D

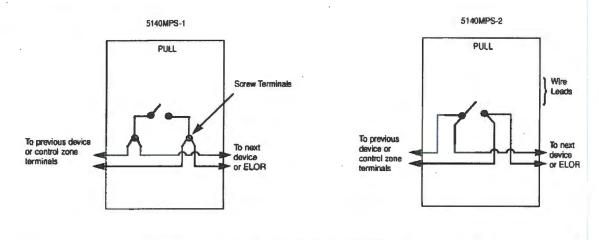


The Technology Leader

ORDERING INFORMATION

5140MPS-1:	Manual Station Key Reset Test and Terminal Block
5140MPS-2:	Manual Station Hex Allen Reset Test and Wire Leads
5140MPS-88:	Surface Backbox

WIRING DIAGRAM



ARCHITECTURAL/ENGINEERING SPECIFICATIONS

Manual Fire Alarm Station Model 5140MPS-1 (5140MPS-2) shall be non-coded and include a breaktype 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 detacted, as operated, at a minimum distance of one hundred feet, front or side. Manual Stations shall be constructed of die cest 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 sami-flush mounting on a standard single-gang box. Manual Stations shall be Underwriter's Laboratories Listed.

ADEMCO

4. . .

(

The Technology Leader

L/MPS-1-2/05

Honeywell

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

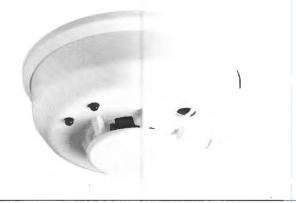
The technician is able to quickly and easily clean the detector chamber without disassembling the detector head

- 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
- * 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 i3 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



L/5808W3DS/D September 2008 © 2008 Honeywell International Inc.

- 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

Honeywell

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 appl_{Cat}ions.

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 $i_{\rm S}$ 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-ofrise 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).

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. - Activiate the control panel's test mode

- 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 soley on heat detectors for life safety. When life safety is involved, smoke detectors MUST also be used. Detectors must not be painted.

- 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 Honevwell

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

1/5809/D October 2007 © 2007 Honeywell International Inc.

Honeywell

Honeywell

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 mountain 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	s Table								
Switch	DIP Switch Position										
Setting	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	Switch must always be in	Switch must always be in							
Off	Single transmission per primary loop change-of-state	the on position	the on position	the off position							

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).

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.

THE DIP SWITCHES MUST BE SET AS SHOWN DURING ENROLLMENT BY THE CONTROL

ITE AREA

TES

DIP SWITCH

COVER TAMPER SWITCH

LOOP

SLOT FOR

(AUX)

N.C. CONTACT DEVICE

COVER HOLDING

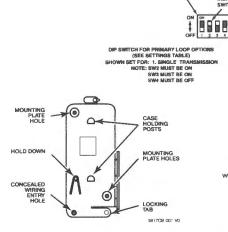
SPECIFICATIONS:

• 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







-

ANTENNA

ALIGN MAGNET WITH MARKS ON CASE (2 PLACES)

LOOP 2 REED SWITCH

> MAGNET (OBTAIN SEPARATELY)

> > LOOP

170K ohms

5817CB-002-V1

MOUNTING PLATE RELEASE

EOLR

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



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

L/5817CB/D August 2007 © 2007 Honeywell International Inc.

Honeywell

b. The auxiliary loops are not affected by the DIP switch settings.



Photoelectric Smoke Detectors

System Sensor's i^{3™} series smoke detectors represent significant advancement in conventional detection. The i³ family is founded on three principles: installation ease, intelligence, and instant inspection.

Features

- Plug-in detector line, mounting base included
- Large wire entry port
- In-line terminals with SEMS screws
- Mounts to octagonal and single-gang backboxes, 4-square backboxes, or direct to ceiling
- Stop-Drop 'N Lock attachment to base
- Removable detector cover and chamber
- Built-in remote maintenance signaling
- Drift compensation and smoothing algorithms
- Simplified sensitivity measurement
- Wide angle, dual color LED indication
- Loop testing via EZ Walk feature
- Built-in test switch

Installation ease. The i³ line redefines installation ease with its plug-in design. This allows an installer to pre-wire the bases included with the heads. The large wire entry port and in-line terminals provide ample room for neatly routing the wiring ir side the base. The base accommodates a variety of back box mounting methods, as well as direct mounting with drywall anchors. To complete the installation, i³ heads plug in to the base with a simple Stop-Drop 'N Lock" action.

Intelligence. i³ detectors offer a number of intelligent features to simplify testing and maintenance. Drift compensation and smoothing algorithms are standard with the i³ line to minimize nuisance alarms. Two-wire i³ detectors needing cleaning can generate a remote maintenance signal, when connected to the 2W-MOD2 loop test/maintenance module, or to a pathel equipped with the i³ protocol. This signal is indicated by LEDs lociated at the module and the panel. The SENS-RDR, a wireless devices, displays the sensitivity of i³ detectors in terms of percent per-foct-obscuration.

Instant inspection. The i³ series provides wide-argle red and green LED indicators for instant inspection of the detector's condition: normal standby, out-of-sensitivity, alarm, or freeze trouble. When connected to the 2W-MOD2 loop test/maintena nce module or a panel with the i³ protocol, the EZ Walk loop test feature is available on two-wire i³ detectors. This feature verifies t he initiating loop wiring by providing LED status indication at each detector.

Agency Listings











i Smoke Detector Specifications

Architectural/Engineering Specifications

Smoke detector shall be a System Sensor i³ Series model number______, listed to Underwriters Laboratories UL 268 for Fire Protection Signaling Systems. The detector shall be a photoelectric type (Model 2W-8, 4W-8) or a combination photoelectric/thermal (Model 2WT-8, 4WT-8) with thermal sensor rated at 135°F (57.2°C). The detector shall include a mounting base for mounting to 3½-inch and 4-inch octagonal, single gang, and 4-inch square back boxes with a plaster ring, or direct mount to the ceiling using drywall anchors. Wiring connections shall be made by means of SEMS screws. The detector shall allow pre-wiring of the base and the head shall be a plug-in type. The detector shall have a nominal sensitivity of 2.5 percent-per-foot nominal as measured in the JL smoke box. The detector shall be capable of automatically adjusting its sensitivity by means of drift compensation and smoothing algorithms. The detector shall provide dual color LED indication which blinks to indicate power up, normal standby, out of sensitivity, alarm, and freeze trouble (Model 2WT-8, 4WT-8) conditions. When used in conjunction with the 2W-MOD2 module, 2-wire models shall include a maintenance signal to indicate the need for maintenance at the alarm control panel, and shall provide a loop testing capability to verify the circuit without testing each detector individually.

Electrical Specif	fications							
Operating Volta	ge	Nominal: 12/24V non-polarized						
		Minimum: 8.5V						
		Maximum: 35V						
Maximum Ripple	e Voltage	30% peak to peak of applied voltag	e					
Standby Current	t	2-wire: 50 μ A maximum average; 4-wire: 50 μ A maximum average						
Maximum Alarm	m Alarm Current 2-wire: 130 mA limited by control panel; 4-wire: 20 mA @12V, 23mA @ 24V							
Peak Standby Cu	k Standby Current 2-wire: 100 μA; 4-wire: n/a							
Alarm Contact R	atings	2-wire: n/a; 4-wire: 0.5 A @ 30V AC/E	C					
Physical Specific	cations							
Dimensions (incl	luding base)	5.3 inches (127 mm) diameter; 2.0 ir	nches (51 mm) height					
Weight	6.3 oz. (178 grams)							
Operating Temp	erature Range	2W-B and 4W-B: 32°F-120°F (0°C-49	W-B and 4W-B: 32°F–120°F (0°C49°C); 2WT-B and 4WT-B: 32°F–100°F (0°C–37.8°C)					
Operating Humi	dity Range	0 to 95% RH non-condensing						
Thermal Sensor		135°F (57.2°C) fixed						
Freeze Trouble		2WT-B and 4WT-B only: 41°F (5℃)						
Sensitivity		2.5%/ft. nominal						
Input Terminals		14–22 AWG						
Mounting		3½-inch octagonal back box						
		4-inch octagonal back box						
		Single gang back box						
		4-inch square back box with a plaste	er ring					
		Direct mount to ceiling						
LED Modes			Power Up Sequence for LED In	dication				
LED Mode	Green LED	Red LED	Condition	Duration				
Power up	Blink every 10 seco	nds Blink every 10 seconds	s Initial LED status indication	80 seconds				

Power up	Blink every 10 seconds	Blink every 10 seconds	Initial LED status indication	80 seconds
Normal (standby)	Blink every 5 seconds	off		
Out of sensitivity	off	Blink every 5 seconds		
Freeze trouble	off	Blink every 10 seconds		
Alarm	off	Solid		

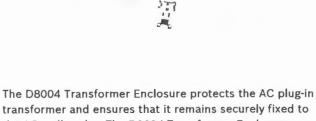
Ordering Information

Model	Thermal	Wiring	Alarr	n Current		
2W-B	No	2-wire 130		nA max. limited by control panel		
2WT-B	Yes	2-wire	130 mA max, limited by control panel			
4W-B	No	4-wire	20 m/	A @ 12V, 23mA @ 24V		
4WT-B	Yes	4-wire	20 m/	A @ 12V, 23mA @ 24V		
Accessories						
2W-MOD2	2-wire loop test / maintenance module		RT	Removal / replacement tool		
SENS-RDR	Sensitivity reader		A77-AB2	Retrofit adapter bracket, 6.6 in. (16.76cm) diameter		



3825 Ohio Avenue • St. Charles, IL 60174 Phone: 800-SENSOR2 • Fax: 630-377-6495 ©2006 System Sensor. Product specifications subject to change without notide Visit systemsensor.com for current product information, including the latest version of this data sheet. A05-0318-006 + 7/06 - #16%

D8004 Transformer Enclosure



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	Certificatio	on
USA	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)
	FM	
	CSFM	7167-1615: 100, 7165-1615: 112, 7165-1615: 119
	NYC-MEA	12-92-E, Vol. 12
		12-92-E, Vol. 15

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.

BOSCH

Invented for life



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.



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 suppies with built-in sync protocol. The strobes shall not drift out of synchronization at any time during operation. Audibles 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.

Man diel Manus	Orden Orde	Mounting	A	Agency Approvals					
Model Number	Order Code	Options#	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, mount	ting screws and	installa	tion shee	et			
ZBB-W	500-636194	Accessory - Includes base, dust cover, mount	ting screws and	installa	tion shee	et			

Ordering Information / Mounting Requirements / Approvals

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.

MEARADAY

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

AL602ULADA, AL802ULADA, AL1002ULADA Altronix® **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.

Temporal Code 3 Mode.

AL1002ULADA

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

- · 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.

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

MEA NYC Department of Buildings Approved. Approved

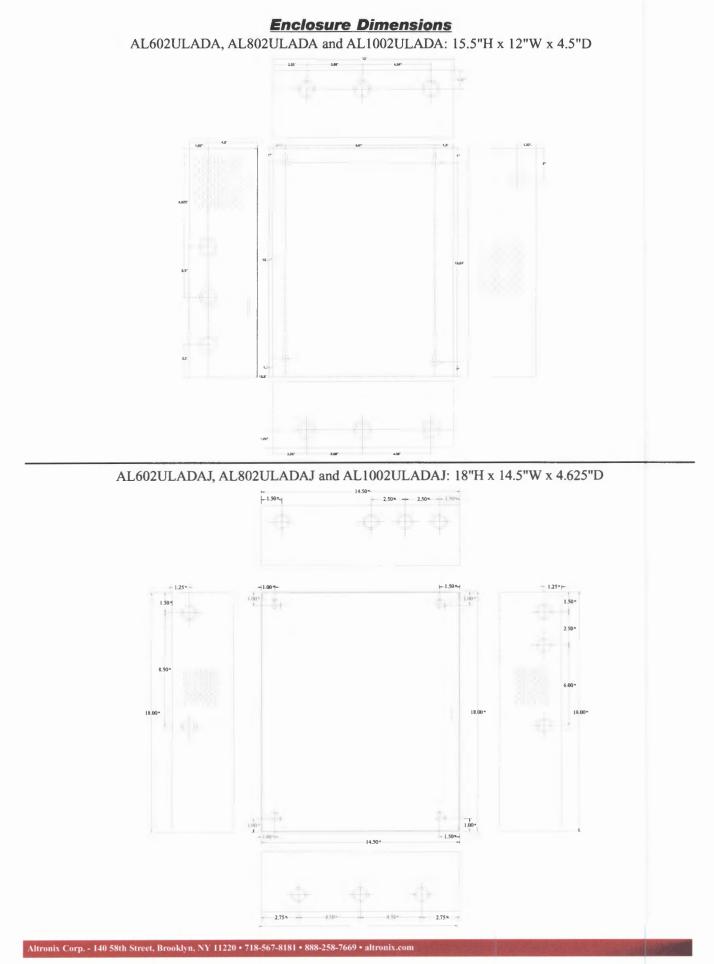
Agency Approvals



California State Fire Marshal Approved.



AL1002ULADAJ



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	Х		Х		Х						Х	Х			A	
Smoke detectors common area	X	Х		Х		Х						Х	Х			A	
Smoke detectors elevator lobbies	X	Х		Х		Х		Х				Х	Х			А	
Smoke Detectors elevator shaft/machine room	X	Х		Х		Х	Х	Х				Х	Х			A	
Duct mounted Smoke Detectors		Х		Х	Х	Х										S	X
Heat Detectors common area/inside apartments	X	Х		Х		Х						Х	Х			A	
Heat Detectors Elevator shaft/machine room	X	Х		Х		Х	Х		Х			Х	Х			A	
Sprinkler flow or pressure switches	X	Х		Х		Х						Х	Х			A	
Sprinkler Tamper, low temp, or low air		Х		Х		Х										S	
Secondary fire panel such as kitchen hood	X	Х		Х		Х						Х	Х			A	
FACP/annunciator silence button		Х		Х		Х				Х						L	
FACP/annunciator acknowledge button		X		Х		Х								Х			
FACP/annunciator reset button		X		Х		Х									Х	L	
Removal of any device		X		Х		Х										Т	
Ground fault		X		Х		Х										Т	
System wiring "open"		X		Х		Х										Т	
AC Power loss		Х		Х		Х										Т	
Secondary power loss		Х		Х		Х										Т	
Telephone line loss		X		Х		Х										Т	



TELGUARD



TG-7FS CELLULAR ALARM

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.



TG-7FS CELLULAR ALARM

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% humidi

Standard Features

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

Alarm Panel TG-TFS

Telguard technology allows full data reporting for unlimited pointto-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 f alarm systems

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







warning systems

Residential

985 · Household fire

1023 • Household burglar alarm systems

Telguard, a Division of Telular Corporation, 2727 Paces Ferry Road, SE, Suite 1-800, Atlanta, GA, 30339, USA 877-428-4238. www.Telguard.com. Copyright ©2010 Telular Corporation. All rights reserved.

Project Data Sheet

ā.

2 -

REV. 11.05.09

PROJECT INFORMATION	
Project (Estimate) Number	4311
Project Name	146-148 Sherman Street
Project Address	Portland, Maine
Contract Date	12/7/2011
Signed Contract (Yes / No?)	yes
Purchase Order #	
Certified Payroll (Yes / No?)	no
Billing Date	
Sales Representative	Rich
BILLING ADDRESS	
Buyer	Mary Cuevas (409-4046) or Jeff (615-9131)
Street or Box #	Mary Cuevas (405-4040) or Jen (015-5151)
City, State, Zip	
Phone Number	
Fax Number	
Contact Person	Betty Lane Realtor at 632-6143
Contact Cell	New Owner: Roger Buck at 749-9059
Email Address	
Submittals Needed(Yes/No?)	yes
Est. Submittals Date	asap
Est. Delivery Date	construction started by Bob Pearson
Est. Finals Date	as soon as possible
HOURS ESTIMATED	
Submittals and Risers	
Programming	
Final Testing and Startup	
Project Management	
PROJECT TYPE / SCOPE	
	Install and finals for fire alarm system

Page 1

Project Order Sheet

PROJECT I	NFORMATION			1.1.2
Device List Number Project Name Project Address		3436		
MATERIAL	ORDERS			
FARADAY	Date Needed: Date Ordered: Date Received: Date Shipped:	12/15/2011		
BOSCH	Date Needed: Date Ordered: Date Received: Date Shipped:	12/15/2011		
ADI	Date Needed: Date Ordered: Date Received: Date Shipped:	12/15/2011		
KNOX	Date Needed: Date Ordered: Date Received: Date Shipped:	given to office to order		
TEKTONE	Date Needed: Date Ordered: Date Received: Date Shipped:			
	Date Needed: Date Ordered: Date Received: Date Shipped:		Page 2	

.

Programming Sheet

5.1

INFORMATION FOR PROGRAMMING		
	Yes	No
Dialer?	XXX	
Will system be monitored by us?	XXX	
City Masterbox?		xxx
Radio Masterbox by us?		xxx
Is Floor Above And Below notification required?	(<u></u>	xxx
Are non-silencable horn/strobes only required?	XXX	
Will there be audible bases in occupied rooms?		xxx
Special features, ie: smoke dampers, controls?		XXX
Local Jurisdiction?		
State Jurisdiction?		
Estimated number of devices?	55	