CITY OF PORTLAND

BUILDING PERMIT

This is to certify that __MAIN STREAMINC GROUP__

Located At __50 WESTMINSTER ST__

Job ID: __2011-04-814-FAFS__

CBL: __181 - - A - 002 - 001 - - - - -__

has permission to install a <u>master box fire alarm system</u>
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

City of Portland, Maine - Building or Use Permit Application

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

Job No: **2011-04-814-FAFS**	Date Applied: **4/14/2011**	CBL: **181 - - A - 002 - 001 - - - - -**	
Location of Construction: **50 WESTMINSTER AVE**	Owner Name: **GROUP MAIN STREAM INC**	Owner Address: **205 LUDLOW ST** **PORTLAND, ME - MAINE 04102**	Phone:
Business Name:	Contractor Name: **PROTECTION PROFESSIONALS**	Contractor Address: **325 US FALMOUTH ME 04105**	Phone: **(207) 775-5755**
Lessee/Buyer's Name:	Phone:	Permit Type: **FIRE ALARM - Fire Alarm**	Zone: **R-3**
Past Use: Two handicap family dwellings	Proposed Use: To handicap family dwellings -- fire alarm	Cost of Work: **5000.00** Fire Dept: ✓ Approved w/conditions ___ Denied ___ N/A Signature: *Bja̶w̶a̶f* (58)	CEO District: Inspection: Use Group: Type: Signature:
Proposed Project Description: **50-52 Westminster Ave – fire alarm**		Pedestrian Activities District (P.A.D.)	

Permit Taken By:	Zoning Approval		

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building Permits do not include plumbing, septic or electrial work.
3. 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.

Special Zone or Reviews

___ Shoreland

___ Wetlands

___ Flood Zone

___ Subdivision

___ Site Plan

_ Maj __Min __MM

Date: O✓ w/condition

4/15/11 *ARM*

Zoning Appeal

___ Variance

___ Miscellaneous

___ Conditional Use

___ Interpretation

___ Approved

___ Denied

Date:

Historic Preservation

✓ Not in Dist or Landmark

___ Does not Require Review

___ Requires Review

___ Approved

___ Approved w/Conditions

___ Denied

Date: *ABM*

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 appication 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	PHON

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.**

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 OCCU0PIED.

Director of Planning and Urban Development
Penny St. Louis

Job ID: 2011-04-814-FAFS   **Located At: 50 WESTMINSTER ST**   **CBL: 181 - - A - 002 - 001 - - - - -**

Conditions of Approval:

Zoning

1. This property shall remain a two (2) handicap family dwelling. Any change of use shall require a separate permit application for review and approval.

Fire

For the purposes of Life Safety Code occupancy, the building is a residential board and care for 4 clients. The building is required to have a master box fire alarm system.

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.

Occupant notification shall be provided on all occupied floors.

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

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.

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.

Fire alarm system requires a wireless master box connection per city ordinance. Masterbox design and installation shall be as approved be City Electrical Division.

Job Summary Report
Job ID: 2011-04-814-FAFS

Job Type:	Fire Alarm / Suppression	**Job Description:**	50-52 Westminster Ave	**Job Year:**	2011
Building Job Status Code:	Permit Issued	**Pin Value:**	1150	**Tenant Name:**	
Job Application Date:		**Public Building Flag:**	N	**Tenant Number:**	
Estimated Value:	5,000	**Square Footage:**			
Related Parties:		MAIN STREAM GROUP		*Property Owner*	
		PROTECTION PROFESSIONALS - PROTECTION PROFESSIONALS PROTECTION PROFESSIONALS		*FIRE ALARM INSTALLER*	

Job Charges

Fee Code Description	Charge Amount	Permit Charge Adjustment	Net Charge Amount	Payment Date	Receipt Number	Payment Amount	Payment Adjustment Amount	Net Payment Amount	Outstanding Balance
Electric Commercial Permit Fee	$55.00		$55.00						$55.00
Job Valuation Fees	$70.00		$70.00						$70.00

Location ID: 25548

Location Details

Alternate Id	Parcel Number	Census Tract	GIS X	GIS Y	GIS Z	GIS Reference	Longitude	Latitude
906570	181 A 002 001	M					-70.302613	43.671152

Location Type	Subdivision Code	Subdivision Sub Code	Related Persons	Address(es)
1				50 WESTMINSTER AVENUE NORTH

Location Use Code	Variance Code	Use Zone Code	Fire Zone Code	Inside Outside Code	District Code	General Location Code	Inspection Area Code	Jurisdiction Code
BENEVOLENT & CHARITABLE		NOT APPLICABLE *R-3*					DISTRICT 7	DEERING-ROSEMONT

Structure Details

Structure: 2 Unit

Occupancy Type Code:

Structure Type Code	Structure Status Type	Square Footage	Estimated Value	Address
Two Family Dwelling	0			50 WESTMINSTER AVENUE NORTH

Longitude	Latitude	GIS X	GIS Y	GIS Z	GIS Reference		User Defined Property	Value

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: **50-52 Westminster Ave**   CBL: **181- A-2-**

Exact location: (within structure) _____

Type of occupancy(s) (NFPA & ICC): ~~4 unit apartment~~ 2 units w/ 2 tenants each

Building owner: **GMS, PO Box 1280, Westbrook, Maine 04092**

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

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

Installing contractor: **Protection Professionals**   Certificate of Fitness No: **M1001**

Contractor phone: **same**   E-mail: _____

This is a new application: YES ◉   NO ○

This is an amendment to an existing permit: YES ○   NO ◉   Permit no: _____

The following documents shall be provided with this application:

☑	Floor plans
☐	Wiring diagram *wireless*
☑	Annunciator details
☑	Equipment data sheets
☑	Battery & voltage drop calculations
☑	Input/ Output Matrix
☑	Designer qualifications *on file already*
☑	Electrical Permit Pulled (check comm/alarm)

COST OF WORK: **4470.00**

PERMIT FEE: **70**
($10 PER $1,000 + $30 FOR THE FIRST $1,000)

RECEIVED

APR 1 4 2011

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 on 11X17 copies or electronic PDF's in addition to full sized plans 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: _____   Date: **3-13-11**

Master Box Approval

Applicant: GMS

App Phone #: 523-5170

Building Name: Kelly Home

Building Address: 50-52 Westminster Ave

Occupancy: 4 unit apt
Assembly OL>300, 20 unit apartment building, etc.

Emergency Contact: Jessica Irish

Emergency phone #: 523-5172

Date of Application: 4-13-11

Billing Address: PO Box 1280, Westbro⬚

Comments:

Applicant completes red box and submits with Fire Alarm Permit

1

FIRE PREVENTION: ☑ Approved   ☐ Denied

04 / 19 / 11
Date

Bjaudalf. Eo
Fire Prevention Officer

Comments: Zone 1: General Alarm   Zone 2 City disconnect

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

6

FIRE PREVENTION: ☐ Filed ____/____/____
                              Date

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: **50-52 Westminster Ave**   CBL: _____

Exact location: (within structure) _____

Type of occupancy(s) (NFPA & ICC): **4 unit apartment**

Building owner: **GMS, PO Box 1280, Westbrook, Maine 04092**

System Designer (point of contact): ^{Must be} **Rich Brobst, Jr**

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

Installing contractor: **Protection Professionals**   Certificate of Fitness No: **M1001**

Contractor phone: **same**   E-mail: _____

This is a new application: YES ⦿   NO ◯

This is an amendment to an existing permit: YES ◯   NO ⦿   Permit no: _____

The following documents shall be provided with this application:

- ☑ Floor plans
- ☐ Wiring diagram **wireless**
- ☐ Annunciator details
- ☑ Equipment data sheets
- ☑ Battery & voltage drop calculations
- ☑ Input/ Output Matrix
- ☑ Designer qualifications **on file already**
- ☑ Electrical Permit Pulled (check comm/alarm)

COST OF WORK: **4470.00**

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

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 on 11X17 copies or electronic PDF's in addition to full sized plans 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: *RW Bolt Jr*   Date: **3-13-11**

Protection Professionals

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

Device List No. 2667

List Date
4/13/2011

Bill To Name / Address	Job Site
GMS PO Box 1280 Westbrook, Maine 04092	Kelly Home 50-52 Westminster Avenue Portland, Maine

Estimate No.

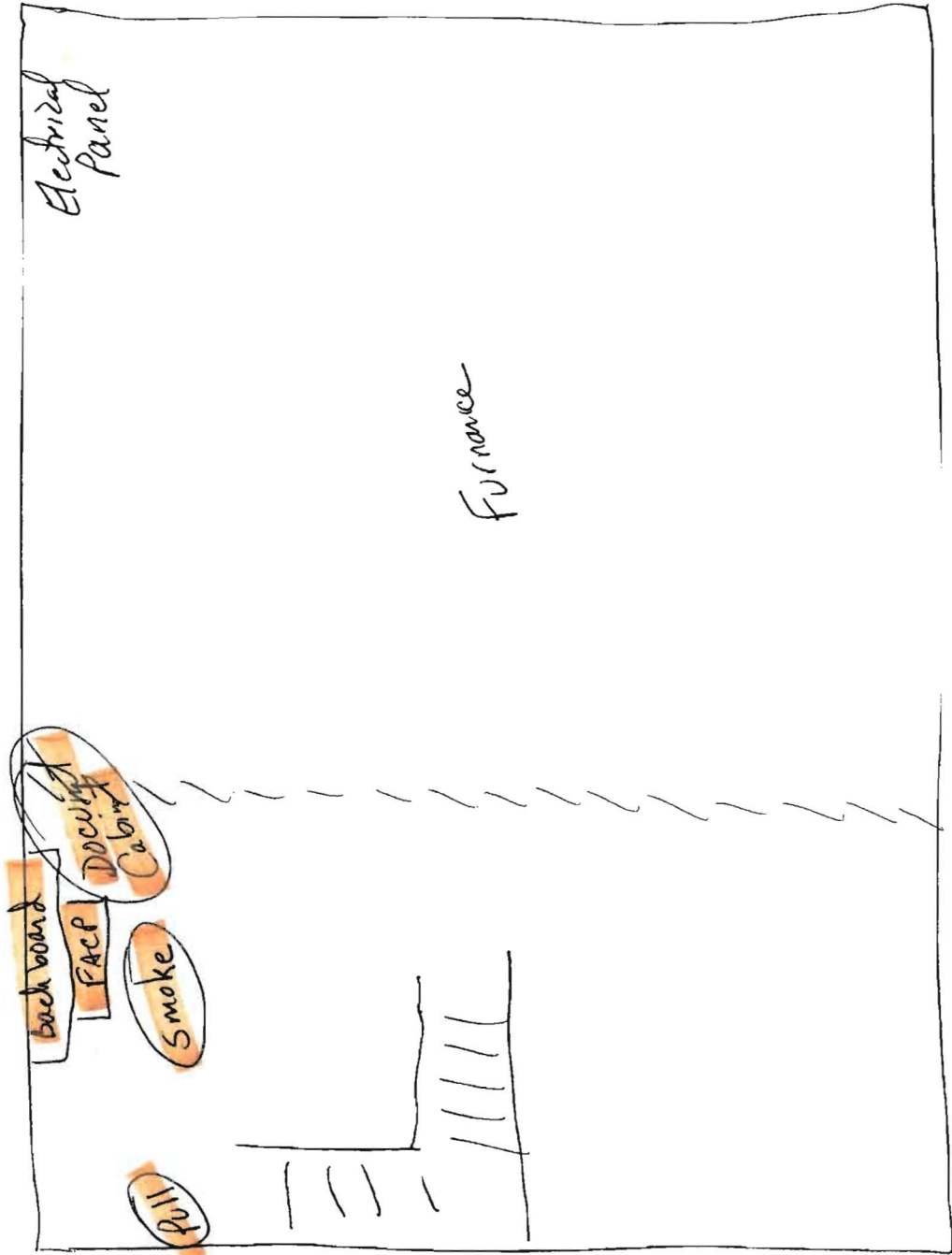| Item	Description	Qty To Order	Qty Ordered
V128FBP-PAK1	Vista- 128 FBP kit, includes V128FBP, 6160CR, 5140DLM, Red transformer enclosure requires 120VAC direct	1	
Bat 12-12	Battery	2	
5881ENHC	Wireless receiver for commercial burglary and 5800 devices	1	
06-SSU00672	Fire Document box 12 inches wide X 13.1 inches high X 2.25 inches deep, CAT 30 keyed	1	
SF-STI7510E	Keypad cover with lock set	1	
8085	ADEMCO cam lock assembly	2	
BK-2WB	Smoke Detector w/ Base over fire alarm panel	1	
7788F	Wireless fire subscriber for City of Portland	1	
1640	16.5 Volt AC 40 VA Class 2 Transformer	1	
Miscellaneous Materi...	Bypass switch	1	
5140MPS-1	Manual Pull Station (basement, front and rear of first floor, front and rear of second floor, front of third floor)	6	
5817CB	Wireless Contact Module (use for fire contacts)	5	
Miscellaneous Materi...	Back boxes	5	
BK-P2R	Horn/strobe, wall mount, red, 15cd, 15/75cd, 30cd, 75cd, 95cd, 110cd, or 115cd (On first floor which is staffed 24-7) Sales Tax Exempt Certificate	1	

Ordered By: _____   Date: _____

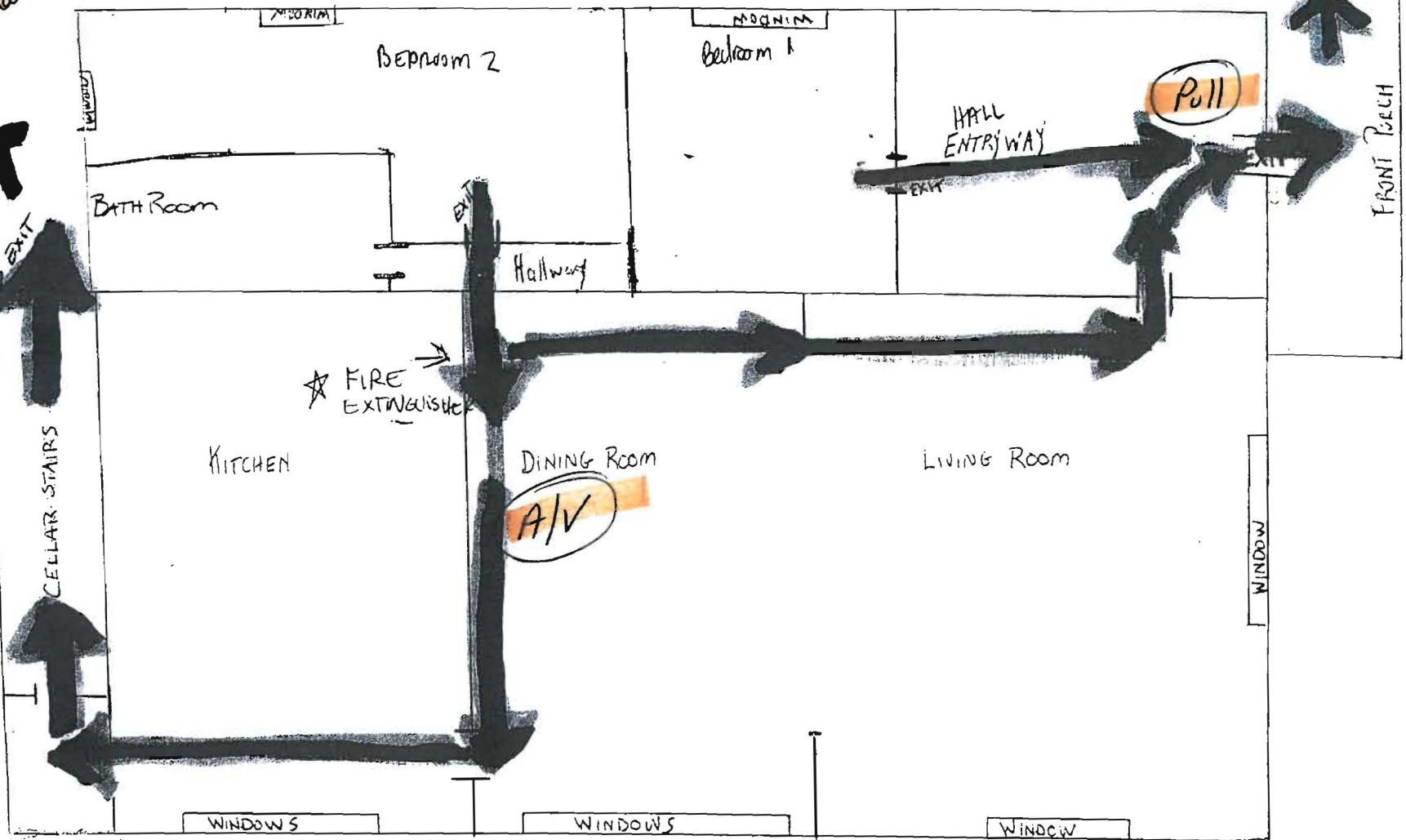Received By: _____   Date: _____

Basement

Electrical Panel

Furnace

back board

FACP

Decivity Cabint

Smoke

Pull

1st FLOOR

Master bat. Annunciator in hallway

EXIT

EXIT

Pull

BEDROOM 2

Bedroom 1

Pull

MAGNUM

MAGNUM

HALL ENTRYWAY

FRONT PORCH

BATH Room

EXIT

EXIT

Hallway

☆ FIRE EXTINGUISHER

Pull

CELLAR STAIRS

KITCHEN

DINING Room

A/V

LIVING Room

WINDOW

WINDOWS

WINDOWS

WINDOW

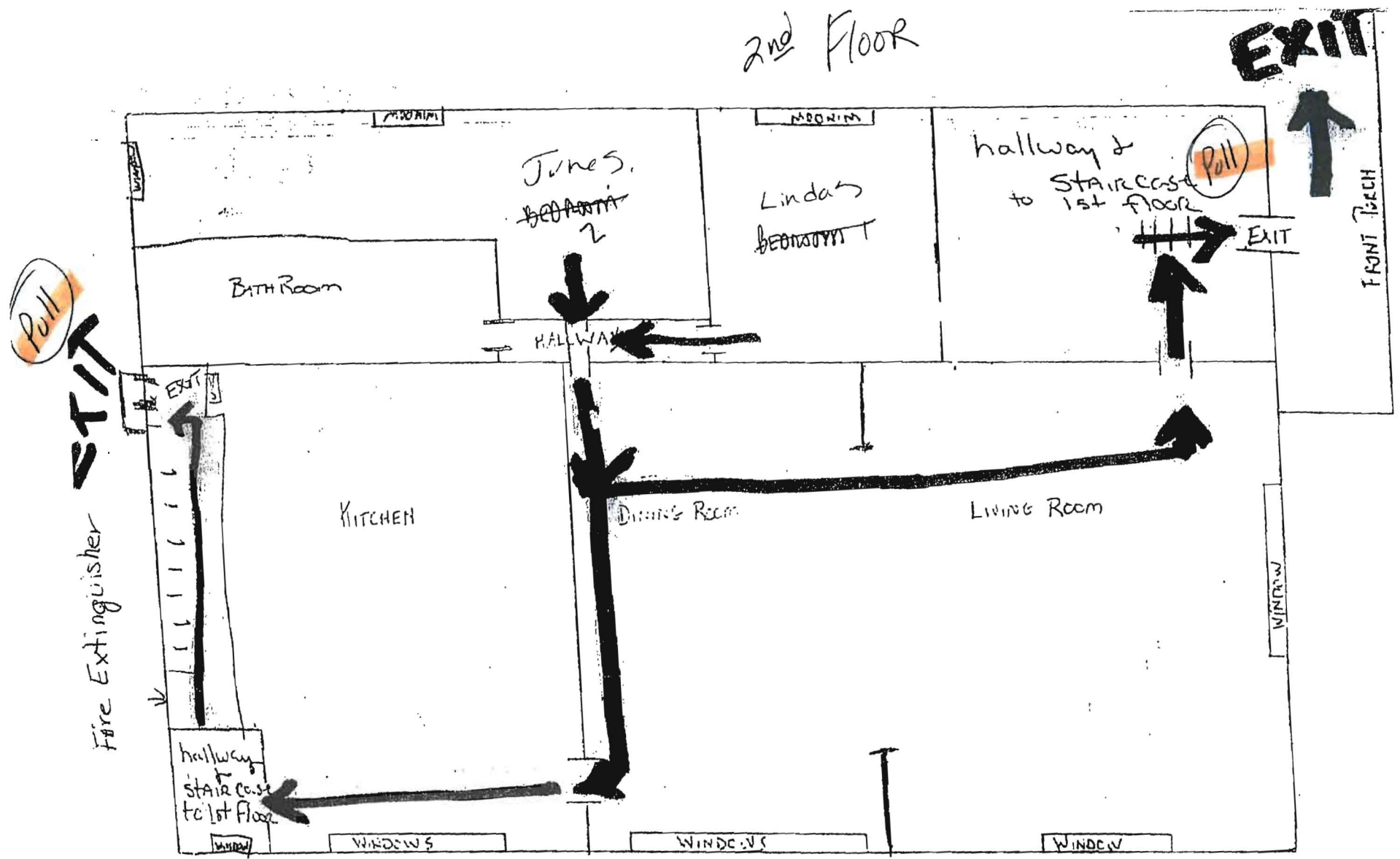☆ FIRE EXTINGUISHER IN BASEMENT ALSO

Kelly A

FIRE EVACUATION PLAN
50 WESTMINSTER AVE.

1. SOUND ALARM AND ALERT RESIDENTS OF A FIRE
2. STAFF WILL ASSIST RESIDENTS TO NEAREST AVAILABLE EXIT

2nd Floor

EXIT

Pull

EXIT

Fire Extinguisher

hallway & staircase to 1st floor   Pull

Front Porch

EXIT

Bath Room

Junes. BEDROOM 2

Lindas BEDROOM 1

HALLWAY

EXIT

Kitchen

Dining Room

Living Room

hallway staircase to 1st floor

WINDOW

WINDOWS

WINDOWS

WINDOW

Kelly!

FIRE EVACUATION PLAN
52 WESTMINSTER AVE.

1. SOUND ALARM AND ALERT RESIDENTS OF A FIRE
2. STAFF WILL ASSIST RESIDENTS TO NEAREST AVAILABLE EXIT

DESIGNATED LOCATION: End of Driveway

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	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	

1 of 1

K-Fire Alarm sequence of operations

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 Control 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 AlarmNet devices.

VISTA-128FBP/V128FBP-24

COMMERCIAL PARTITIONED FIRE AND
BURGLARY ALARM CONTROL PANEL

Honeywell

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

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

Product specifications subject to change.

ORDERING

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

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

ADEMCO
COMMERCIAL
SECURITY SOLUTIONS

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

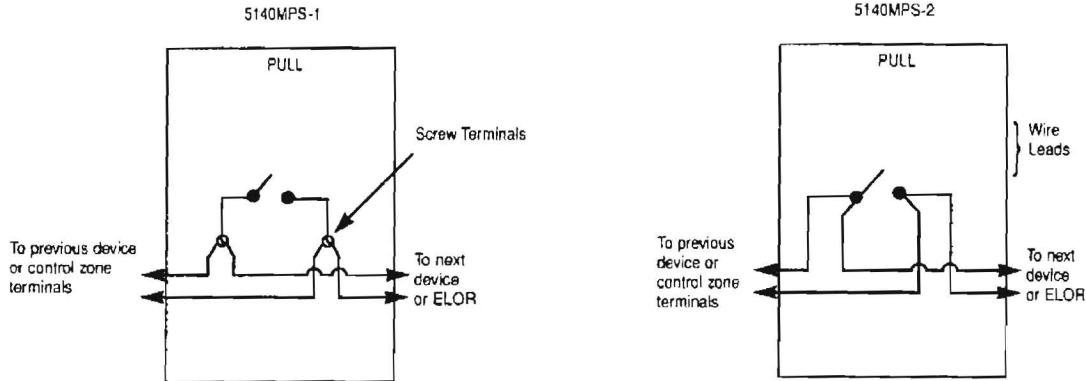**ADEMCO**
The Technology Leader

■ 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

5140MPS-1

PULL

Screw Terminals

To previous device
or control zone
terminals

To next
device
or ELOR

5140MPS-2

PULL

Wire
Leads

To previous
device or
control zone
terminals

To next
device
or ELOR

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-

mum 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 Backbox, or semi-flush mounting on a standard single-gang box. Manual Stations shall be Underwriter's Laboratories Listed.

ADEMCO

The Technology Leader

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 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
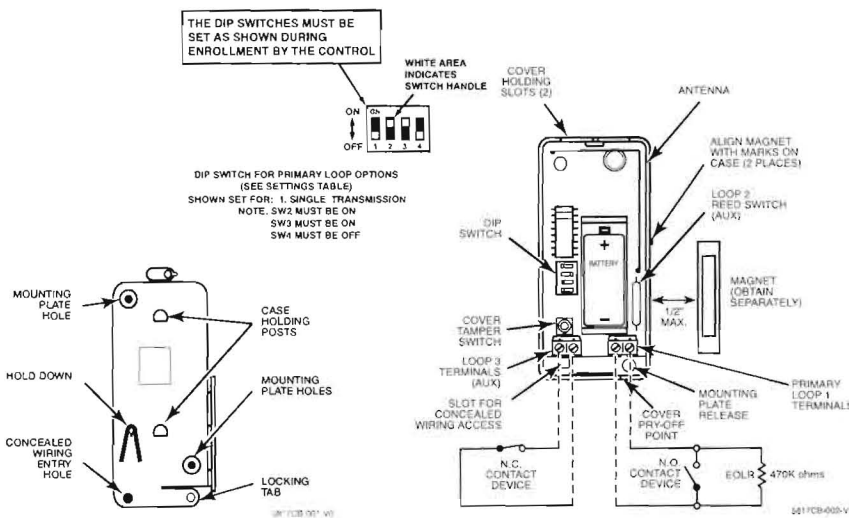- Commercial Burg   UL365, UL609, UL1076, UL1610

Diagram 1. Mounting Plate   Diagram 2. Transmitter, Cover Removed

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

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.

For more information, call 1-800-888-4784 (4STI) or visit www.sti-usa.com

STI Safety Technology International, Inc.

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:
· 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.
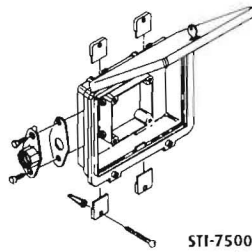
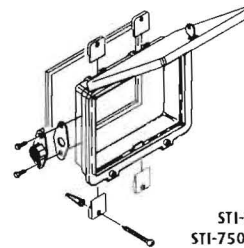|	STI-7500/7501					STI-7510/7511		
B	G	H	J	K	L	M	N	P
A A	8.48	5.40	4.15	6.48	3.40	8.48	6.48	4.59
C B	8.50	5.40	1.30	5.50	0.55	8.50	5.50	1.74
K C	7.81	4.80	2.51	5.25	1.76	7.81	5.25	2.95
B D	7.73	5.40	3.54	5.70	2.79	7.73	5.70	3.98
O E	7.70	5.40	1.76	5.71	1.01	7.70	5.71	2.20
X F	8.30	4.80	2.35	5.63	1.60	8.30	5.63	2.79
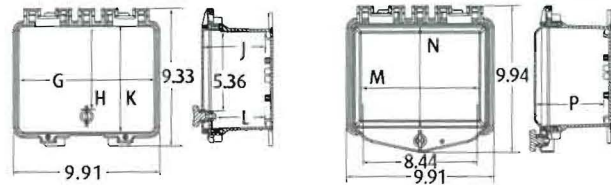
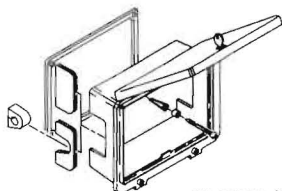**NOTE:** Below pictures illustrate backbox differences.
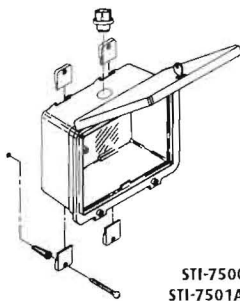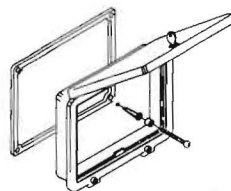

STI-7500A (KEY LOCK)
STI-7501A (THUMB LOCK)

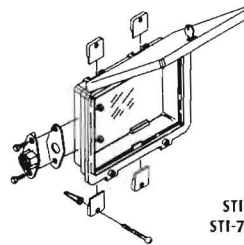STI-7500B (KEY LOCK)
STI-7501B (THUMB LOCK)

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)

7744F/7788F

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*
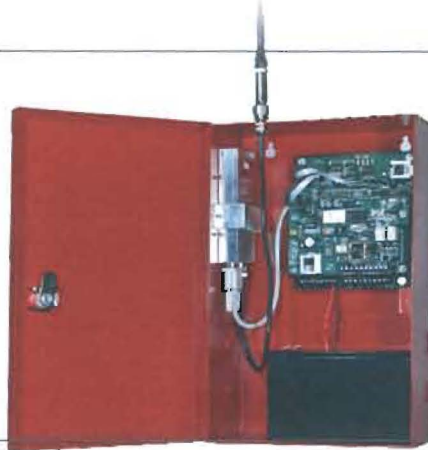
- **Options for Full Data for Fire and Burglary**

- **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	Available Options
7744F – 4 reversing polarity inputs plus 4 programmable EOL inputs	FireTap 7770
	IntelliTap 7067
	NEMA 4 Enclosure
7788F – Programmable EOL inputs with 8 zones	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.

AES | *IntelliNet*
CORPORATION | For Alarm Monitoring

For more information
Call 800-AES-NETS (800-237-6387)

AES Corporation | 285 Newbury Street | Peabody, MA 01960 USA
Tel. +1 978-535-7310 | Fax +1 978-535-7313 | Email info@aes-intellinet.com
Web www.aes-intellinet.com

SYSTEM SENSOR®

Photoelectric Smoke Detectors

System Sensor's i³™ 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 inside 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 panel equipped with the i³ protocol. This signal is indicated by LEDs located at the module and the panel. The SENS-RDR, a wireless device, displays the sensitivity of i³ detectors in terms of percent per-foot-obscuration.

Instant inspection. The i³ series provides wide-angle 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/maintenance module or a panel with the i³ protocol, the EZ Walk loop test feature is available on two-wire i³ detectors. This feature verifies the initiating loop wiring by providing LED status indication at each detector.

Agency Listings

UL LISTED 5911 · FM APPROVED 3011446 · 7272-1209 210 · MEA approved 290-01-E · MSFM approved 2093

i³ 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-B, 4W-B) or a combination photoelectric/thermal (Model 2WT-B, 4WT-B) 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 UL 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-B, 4WT-B) 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 Specifications

Operating Voltage	Nominal: 12/24V non-polarized Minimum: 8.5V Maximum: 35V
Maximum Ripple Voltage	30% peak to peak of applied voltage
Standby Current	2-wire: 50 µA maximum average; 4-wire: 50 µA maximum average
Maximum Alarm Current	2-wire: 130 mA limited by control panel; 4-wire: 20 mA @12V, 23mA @ 24V
Peak Standby Current	2-wire: 100 µA; 4-wire: n/a
Alarm Contact Ratings	2-wire: n/a; 4-wire: 0.5 A @ 30V AC/DC

Physical Specifications

Dimensions (including base)	5.3 inches (127 mm) diameter; 2.0 inches (51 mm) height
Weight	6.3 oz. (178 grams)
Operating Temperature Range	2W-B and 4W-B: 32°F–120°F (0°C–49°C); 2WT-B and 4WT-B: 32°F–100°F (0°C–37.8°C)
Operating Humidity 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°C)
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 plaster ring Direct mount to ceiling

LED Modes

LED Mode	Green LED	Red LED
Power up	Blink every 10 seconds	Blink every 10 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

Power Up Sequence for LED Indication

Condition	Duration
Initial LED status indication	80 seconds

Ordering Information

Model	Thermal	Wiring	Alarm Current
2W-B	No	2-wire	130 mA max. limited by control panel
2WT-B	Yes	2-wire	130 mA max. limited by control panel
4W-B	No	4-wire	20 mA @ 12V, 23mA @ 24V
4WT-B	Yes	4-wire	20 mA @ 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

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.

Key Ring Hooks

Business Card Holder

Canned Smoke

CD Jewel Case

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

NEMA

NFPA

Made In U.S.A.

ISO 9001 REGISTERED COMPANY

ADA

AceBOX

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

No Excuses, Just Solutions!

SPACE AGE ELECTRONICS, INC.

Specifications:

The Fire Document Box (FDB) shall be constructed of 16 gauge cold rolled steel (CRS), it shall be painted with a durable red powder coat paint. The front door shall be lettered with the words "FACU MAINTENANCE RECORDS" in White indelible letters 1" in height. The door of the FDB shall be locked with a keyed lock (standard shall be CAT 30, but others shall be available along with Private Labeling).

Inside the cabinet shall contain a16 gauge galvanized CRS sleeve. This sleeve shall allow for the storage of 1" of paper, test and inspection records, manuals and other important documents. The sleeve shall also facilitate the hanging of key rings and thumb drives (for data storage) along with business cards and space for a CD 'jewel' case. The unit shall also contain a 1.4oz can of smoke detector test gas. Inside the door shall have a "Notes" label for the recording of valuable information such as AHJ approvals, various system codes and the location of hard to find devices.

If so desired, the internal sleeve (held in by 2 wing nuts) may be removed and the space used to insert a 1.5" 3 ring binder.

Notes Sticker inside FDB Door

Ordering Information:

Part #	Description
SSU00672	FDB Fire Document Box
SSU00673	FDB Custom Logo/lock
(ask for Form FD10498 to order custom box)	
CK1	Replacement 1.4 Oz Test Gas

No Excuses, Just Solutions!

Vista 128

Quantity	Part #	Description	Standby	Alarm	Total standby	Total alarm
1	V128	Fire Panel (maximum)	0.250	0.485	0.250	0.485
1	6160CR	Annunicator	0.150	0.150	0.150	0.150
0	4208SN	Expander	0.001	0.033	0.000	0.000
0			1.000	0.000	0.000	0.000
6		Pull Station	0.000	0.000	0.000	0.000
1	2W	Smoke	0.000	0.130	0.000	0.130
0	4W	Smoke	0.020	0.023	0.000	0.000
0		heat	0.000	0.000	0.000	0.000
			0.001	0.001	0.000	0.000
0		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
		NAC Power	0.000	1.000	0.000	0.000
		NAC power maximum (24V)	0.000	3.400	0.000	0.000
1		NAC power maximum (12V)		2.300	0.000	2.300
					0.000	0.000
					0.000	0.000
		Miscellaneous			0.000	0.000
TOTAL			1.442	7.549	0.400	3.065

	Hours	Standby current				Total
	24		0.4001			9.601
Minutes		Alarm current				
5	0.08333333		3.0650			0.255
		Battery Capacity				
	20%		9.8566			11.828

Kelly Home 4-13-11 Battery Calcuations MPC-6000   4/19/2011

Selectable Output Horns, Strobes, and Horn/Strobes

SpectrAlert® Advance selectable-output horns, strobes, and horn/strobes are rich with features guaranteed to cut installation times and maximize profits.

The SpectrAlert Advance series of notification appliances is designed to simplify installations, with features such as plug in designs, instant feedback messages to ensure correct installation of individual devices, and 11 field-selectable candela settings for wall and ceiling strobes and horn/strobes.

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

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

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

The SpectrAlert Advance series includes outdoor notification appliances. Outdoor strobes and horn/strobes (two wire and four wire) are available for wall or ceiling. Outdoor horns are available for wall only. All System Sensor outdoor products are rated between minus 40 degrees Fahrenheit and 151 degrees Fahrenheit in wet or dry applications.

Features

- Electrically compatible with existing SpectrAlert products
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Plug-in design
- Field selectable candela settings on wall and ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185
- Same mounting plate for wall- and ceiling-mount units
- Shorting spring on mounting plate for continuity check before installation
- Tamper resistant construction
- Outdoor wall and ceiling products rated from –40°F to 151°F
- Design allows minimal intrusion into the back box
- Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and three volume selections
- Outdoor products UL listed to UL 1638 (strobe) and UL 464 (horn) outdoor requirements
- Outdoor products rainproof per UL 50 (NEMA 3R)
- Compatible with MDL sync module

Agency Listings

SIGNALING
(UL) LISTED
54011
55512
53593

FM APPROVED
3023572

MEA approved
MEA452-05-E

7125-1653 186 (indoor strobes)
7300-1653 187 (outdoor strobes)
7125-1653 188 (horn/strobes)
(horn/strobes)
7133-1653 189 (horns, chimes)

SpectrAlert Advance Specifications

General

SpectrAlert Advance horns, strobes and horn/strobes shall mount to a standard 4 × 4 × 1½-inch back box, 4-inch octagon back box or double-gang back box. Two-wire products shall also mount to a single-gang 2 × 4 × 1⅞-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync-Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync-Circuit Module, 12-volt rated notification appliance circuit outputs shall operate between nine and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC, or full-wave rectified, unfiltered power supply. Strobes and horn/strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.

Strobe

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

Horn/Strobe Combination

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

Outdoor Products

SpectrAlert Advance outdoor horns, strobes and horn/strobes shall be listed for outdoor use by UL and shall operate between minus 40 degrees and 151 degrees Fahrenheit. The products shall be listed for use with a System Sensor outdoor/weatherproof back box with half inch and three-fourths inch conduit entries.

Synchronization Module

The module shall be a System Sensor Sync-Circuit model MDL listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn/strobe models over a single pair of wires. The module shall mount to a 4¹¹⁄₁₆ × 4¹¹⁄₁₆ × 2⅛-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Physical/Electrical Specifications	
Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
K Series Operating Temperature	−40°F to 151°F (−40°C to 66°C)
Humidity Range	10 to 93% non-condensing (indoor products)
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12DC/FWR or regulated 24DC/FWR[1]
Operating Voltage Range[2]	8 to 17.5 V (12V nominal) or 16 to 33 V (24 nominal)
Input terminal wire gauge	12 to 18 AWG
Ceiling mount dimensions (including lens)	6.8" diameter × 2.5" high (173 mm diameter × 64 mm high)
Wall mount dimensions (including lens)	5.6"L × 4.7"W × 2.5"D (142 mm L × 119 mm W × 64 mm D)
Horn dimensions	5.6"L × 4.7"W × 1.3"D (142 mm L × 119 mm W × 33 mm D)
Wall-mount back box skirt dimensions (BBS-2, BBSW-2)	5.9"L × 5.0"W × 2.2"D (151 mm L × 128 mm W × 56 mm D)
Ceiling-mount back box skirt dimensions (BBSC-2, BBSCW-2)	7.1" diameter × 2.25" high (180 mm diameter × 57 mm high)
Wall-mount weatherproof back box dimensions (SA-WBB)	5.7"L × 5.1"W × 2.0"D (145 mm L × 130 mm W × 51 mm D)
Ceiling-mount weatherproof back box dimensions (SA-WBBC)	7.1" diameter × 2.0" high (180 mm diameter × 51 mm high)

Notes:

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

UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)

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

UL Max. Horn Current Draw (mA RMS)

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

UL Max. Current Draw (mA RMS), 2-wire Horn/Strobe, Standard Candela Range (15–115 cd)

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

UL Max. Current Draw (mA RMS), 2-wire Horn/Strobe, High Candela Range (135–185 cd)

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

Candela Derating

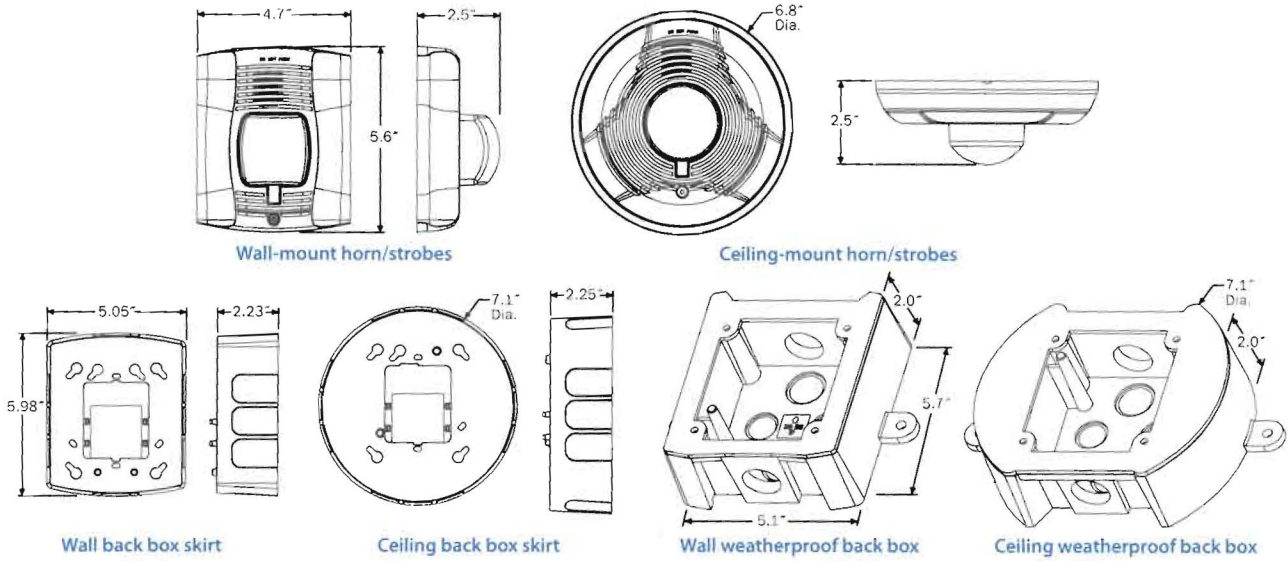For K series products used at low temperatures, listed candela ratings must be reduced in accordance with this table.

Strobe Output (cd)

Listed Candela	Candela rating at –40°F
15	
15/75	Do not use below 32°F
30	
75	44
95	70
110	110
115	115
135	135
150	150
177	177
185	185

Horn Tones and Sound Output Data

Horn and Horn/Strobe Output (dBA)

Switch Position	Sound Pattern	dB	8–17.5 Volts		16–33 Volts		24 Volt Nominal			
							Reverberant		Anechoic	
			DC	FWR	DC	FWR	DC	FWR	DC	FWR
1	Temporal	High	78	78	84	84	88	88	99	98
2	Temporal	Medium	74	74	80	80	86	86	96	96
3	Temporal	Low	71	73	76	76	83	80	94	89
4	Non-temporal	High	82	82	88	88	93	92	100	100
5	Non-temporal	Medium	78	78	85	85	90	90	98	98
6	Non-temporal	Low	75	75	81	81	88	84	96	92
7†	Coded	High	82	82	88	88	93	92	101	101
8†	Coded	Medium	78	78	85	85	90	90	97	98
9†	Coded	Low	75	75	81	81	88	85	96	92

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

SpectrAlert Advance Dimensions

Wall-mount horn/strobes

Ceiling-mount horn/strobes

Wall back box skirt

Ceiling back box skirt

Wall weatherproof back box

Ceiling weatherproof back box

SpectrAlert Advance Ordering Information

Model	Description
Wall Horn/Strobes	
P2R*‡	2-wire Horn/Strobe, Standard cd‡, Red
P2RH*	2-wire Horn/Strobe, High cd, Red
P2RK*	2-wire Horn/Strobe, Standard cd, Red, Outdoor
P2RHK*	2-wire Horn/Strobe, High cd, Red, Outdoor
P2W*	2-wire Horn/Strobe, Standard cd, White
P2WH*	2-wire Horn/Strobe, High cd, White
P4R*	4-wire Horn/Strobe, Standard cd, Red
P4RH*	4-wire Horn/Strobe, High cd, Red
P4RK	4-wire Horn/Strobe, Standard cd, Red, Outdoor
P4RHK	4-wire Horn/Strobe, High cd, Red, Outdoor
P4W*	4-wire Horn/Strobe, Standard cd, White
P4WH*	4-wire Horn/Strobe, High cd, White
Wall Strobes	
SR*‡	Strobe, Standard cd, Red
SRH*‡	Strobe, High cd, Red
SRK	Strobe, Standard cd, Red, Outdoor
SRHK	Strobe, High cd, Red, Outdoor
SW*	Strobe, Standard cd, White
SWH*	Strobe, High cd, White
Ceiling Horn/Strobes	
PC2R*	2-wire Horn/Strobe, Standard cd, Red
PC2RH*	2-wire Horn/Strobe, High cd, Red
PC2RK	2-wire Horn/Strobe, Standard cd, Red, Outdoor
PC2RHK	2-wire Horn/Strobe, High cd, Red, Outdoor

Model	Description
Ceiling Horn/Strobes (cont'd.)	
PC2W*‡	2-wire Horn/Strobe, Standard cd, White
PC2WH*‡	2-wire Horn/Strobe, High cd, White
PC4R	4-wire Horn/Strobe, Standard cd, Red
PC4RH	4-wire Horn/Strobe, High cd, Red
PC4RK	4-wire Horn/Strobe, Standard cd, Red, Outdoor
PC4RHK	4-wire Horn/Strobe, High cd, Red, Outdoor
PC4W	4-wire Horn/Strobe, Standard cd, White
PC4WH	4-wire Horn/Strobe, High cd, White
Ceiling Strobes	
SCR*	Strobe, Standard cd, Red
SCRH*	Strobe, High cd, Red
SCRK	Strobe, Standard cd, Red, Outdoor
SCRHK	Strobe, High cd, Red, Outdoor
SCW*‡	Strobe, Standard cd, White
SCWH*‡	Strobe, High cd, White
Horns	
HR	Horn, Red
HRK	Horn, Red, Outdoor
HW	Horn, White
Accessories	
BBS-2	Back Box Skirt, Wall, Red
BBSW-2	Back Box Skirt, Wall, White
BBSC-2	Back Box Skirt, Ceiling, Red
BBSCW-2	Back Box Skirt, Ceiling, White

Notes:

* Add "-P" to model number for plain housing (no "FIRE" marking on cover), e.g., P2R-P

† Add "-SP" to model number for "FUEGO" marking on cover, e.g., P2R-SP

‡ "Standard cd," refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings. "High cd," refers to strobes that include 135, 150, 177, and 185 candela settings.

All outdoor units ending in "K" include a weatherproof back box.