#### City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-03-3490-ALTCOMM 2012-48903 FAFS	Date Applied: 10/02/2012		CBL: 306- B-018-001					
Location of Construction: 68 WALDRON WAY				Owner Address: 68 WALDRON WAY PORTLAND, ME 04103				
Business Name:	Contractor Name:		Contractor Addre	ess:		Phone:		
Maine Parts & Machine	Cunningham Security	y Systems	10 PRINCES POIN	Г ROAD, YARMO	UTH, ME 04096	879-1877		
Lessee/Buyer's Name:	Phone:		Permit Type: FAFS			Zone: I-M		
Past Use: Industrial manufacturing	Proposed Use: Same: Industrial	Cost of Work: \$3,000.00	CEO District:					
with accessory office and warehouse	manufacturing with accessory office and warehouse – to install fire alarm		Fire Dept:  to \( i \in \lambda i \)	Inspection: Use Group: Type:				
			Signature: Bfu	60). (50	3	Signature:		
Proposed Project Description fire alarm	:		Pedestrian Activi	ties District (P.A	.D.)			
Permit Taken By: Brad				Zoning Appr	oval	4		
		S-onial Zo	ne or Reviews	Zoning Appea	I Historic P	reservation		
<ol> <li>This permit application of Applicant(s) from meeting Federal Rules.</li> <li>Building Permits do not it septic or electrial work.</li> <li>Building permits are voice within six (6) months of False informatin may invested permit and stop all work.</li> </ol>	ng applicab include pli	To and	wall des	laneous tional Us pretation proved	Does not Requires Approved			

I hereby certify that I am the owner of record o
the owner to make this application as his authorized agent and 1 agree
the application is issued, I certify that the code official's authorized representative shall nave to enforce the provision of the code(s) applicable to such permit.

owner of record and that I have been authorized by sdiction. In addition, if a permit for work described in all areas covered by such permit at any reasonable hour

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE (	DATE	PHONE	

12-3-12 G BW MOVE HEM DETECTORS TO TOP CORD OF BILL STEEL TRUSS

#### DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND BUILDING PERMIT



This is to certify that

<u>CUNNINGHAM SECURITY</u>

10 PRINCES POINT RD

YARMOUTH, ME 04096

Job ID: <u>2012-03-3490-ALTCOMM</u>

For installation at 68 WALDRON WAY MAINE PARTS & MACHINE

CBL: 306- B-018-001

has permission to extend fire alarm coverage to addition

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

59ay 200

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.



# PORTLAND MAINE

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

Director of Planning and Urban Development Jeff Levine

Job ID: <u>2012-03-3490-ALTCOMM</u> extend fire alarm coverage to addition

For installation at:
68 WALDRON WAY
MAINE PARTS & MACHINE

CBL: 306- B-018-001

#### **Conditions of Approval:**

#### Fire

The installation shall comply with the following:

City of Portland Chapter 10, Fire Prevention and Protection;

NFPA 1, Fire Code (2009 edition), as amended by City Code;

NFPA 101, Life Safety Code (2009 edition), as amended by City Code;

City of Portland Fire Department Rules and Regulations;

NFPA 72, *National Fire Alarm and Signaling Code* (2010 edition), as amended by Fire Department Rules and Regulations; and

NFPA 70, National Electrical Code (2011 edition) as amended by the State of Maine.

**The fire alarm annunciator shall have a clear lockable cover** with instructions how to reset it on the inside.

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

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.

A master box connection is not authorized for this building.



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.

within the city, payment arrangements must be made by	pefore permits of any kind are accepted.						
2012-03-3490-Altcomm	(3)						
Installation address: 68 Waldron Way	CBL: <u></u>						
Exact location: (within structure) Mechanical Room							
Type of occupancy(s) (NFPA & ICC): Warehouse and Storage	ge meratza, mxch						
Building owner: Kelton Real Estate Holdings LLC	TNDUSTRIAL MAN						
Must be System Designer (point of contact): Michael Major	TNDUSTRIAL MAN						
Designer phone: 207-846-3350	E-mail mmajor@cunninghamsecurity.cc						
Installing contractor: BH Milliken	_Certificate of Fitness No: 1004						
Contractor phone: 207-879-1877	E-mail: bhm@bhmilliken.com						
This is a new application:  YES  NO  New	AES Master Box: YES NO lude Master Box approval form						
Amendment to an existing permit: YES NO Perr	nit no:						
The following documents shall be provided with this application:	r 3000						
Floor plans Scope of Work	COST OF WORK:						
Wiring diagram 11 ½ x 17s	PERMIT FEE: 50						
Annunciator details pdf copy (may be e-mailed)	(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)						
Input/ Output Matrix Designer qualifications							
Equipment data sheets  Battery/ voltage drop calcs	RECEIVED						
Electrical Permit Pulled (check alarm/com)	OCT 0 2 2012						
Master box approval only: YES NO (If yes check New AES Master Box above)	Dept. of Building Inspections City of Portland Maine						
The <u>designer</u> shall be the responsible party for this application. D	ownload a new copy of this application at						
www.portlandmaine.gov/fire for every submittal. Submit all plans in e	secretary-economic successor						
the Building Inspections Department, 389 Congress Street, Room							
Prior to acceptance of any fire alarm system, a complete commissioni	•						
fire system contractors and the Fire Department, and proper documentation of such test(s) provided.  All installation(s) must comply with the <i>City of Portland Technical Standard for Signaling Systems for the Protection of</i>							
Life and Property, available at www.portlandmine.gov/fire.							
Applicant signature:	Date: 10.2-12						

## **CUNNINGHAM**

# **Security Systems**

10 Princes Point Road • Yarmouth, Maine 04096 (207) 846-3350 • Fax (207) 846-6080 • (800) 210-0257

10/2/12

Lieutenant Benjamin Wallace, Jr. Portland Fire Department 380 Congress Street Portland Maine 04101

Please find attached a permit application for the property located at 68 Waldron Way. The scope of this permit application includes the installation of eleven initiation devices and five occupant notification appliances. There is currently a conventional Vista 128FB panel. BH Milliken has installed all of the conduit, wiring and devices, Cunningham Security shall be programming and testing.

Please contact me with any questions at 207-846-3350.

Sincerely,

Michelle Perkins, Operations Manager

I chule toking



### **Selectable-Output** Horns, Strobes, and **Horn Strobes**

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











#### **Features**

- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Field-selectable candela settings on wall and ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185
- · Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and three volume selections
- · Universal mounting plate for wall and ceiling units
- · Mounting plate shorting spring checks wiring continuity before device installation
- Electrically compatible with existing SpectrAlert products
- · Compatible with MDL sync module

The SpectrAlert Advance series offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry. With white and red plastic housings, wall and ceiling mounting options, and plain and FIRE-printed devices, SpectrAlert Advance can meet virtually any application requirement.

Like the entire SpectrAlert Advance product line, horns, strobes, and horn strobes include a variety of features that increase their application versatility while simplifying installation. All devices feature plug-in designs with minimal intrusion into the back box, which make installations fast and foolproof while virtually eliminating costly and time-consuming ground faults. Furthermore, a universal mounting plate with an onboard shorting spring tests wiring continuity before the device is installed, protecting devices from damage.

In addition, field-selectable candela settings, automatic selection of 12- or 24-volt operation, and a rotary switch for horn tones with three volume selections enables installers to easily adapt devices to suit a wide range of application requirements.

#### **Agency Listings**









7125-1653:186 (indoor strobes) 7125-1653:188 (horn strobes, chime strobes) 7135-1653:189 (horns, chimes)

#### **SpectrAlert Advance Specifications**

#### Architect/Engineer Specifications

#### General

SpectrAlert Advance horns, strobes, and horn strobes shall mount to a standard  $4 \times 4 \times 11\%$ -inch back box, 4-inch octagon back box, or double-gang back box. Two-wire products shall also mount to a single-gang  $2 \times 4 \times 11\%$ -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 9 and 17.5 volts; 24-volt-rated notification appliance circuit outputs 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, and 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 1 Hz 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 1 Hz 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.

#### 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 1 Hz 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 × 21/8-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.

32°F to 120°F (0°C to 49°C)
10 to 93% non-condensing
1 flash per second
Regulated 12 DC/FWR or regulated 24 DC/FWR <sup>1</sup>
8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
12 to 18 AWG
6.8" diameter $\times$ 2.5" high (173 mm diameter $\times$ 64 mm high)
5.6" L × 4.7" W × 2.5" D (142 mm L × 119 mm W × 64 mm D)
5.6" L × 4.7" W × 1.3" D (142 mm L × 119 mm W × 33 mm D)
5.9" L × 5.0" W × 2.2" D (151 mm L × 128 mm W × 56 mm D)
7.1" diameter $\times$ 2.2" high (180 mm diameter $\times$ 57 mm high)
5.7" L × 4.8" W × 0.35" D (145 mm L × 122 mm W × 9 mm D)
6.9" diameter × 0.35" high (175 mm diameter × 9 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 Max. Strobe	Current Dra	W (MA KI	(15)			<b>UL Max. Horn Cu</b>	rrent Draw (m	na RIVIS)			
		8-17.5	Volts	16-33	Volts			8-17.5	Volts	16-33	Volts
	Candela	DC	FWR	DC	FWR	Sound Pattern	dB	DC	FWR	DC	FWR
Standard	15	123	128	66	71	Temporal	High	57	55	69	75
Candela Range	15/75	142	148	77	81	Temporal	Medium	44	49	58	69
	30	NA	NA	94	96	Temporal	Low	38	44	44	48
	75	NA	NA	158	153	Non-temporal	High	57	56	69	75
	95	NA	NA	181	176	Non-temporal	Medium	42	50	60	69
	110	NA	NA	202	195	Non-temporal	Low	41	44	50	50
	115	NA	NA	210	205	Coded	High	57	55	69	75
High	135	NA	NA	228	207	Coded	Medium	44	51	56	69
Candela Range	150	NA	NA	246	220	Coded	Low	40	46	52	50
	177	NA	NA	281	251						
	185	NA	NA	286	258						
UL Max. Current	Draw (mA	RMS), 2-V	Vire Horn Stro	be, Stan	dard Candela	Range (15–115 cd)					
		8-17.	5 Volts	16	5-33 Volts						
DC Input		15	15/75	15	5 15	5/75 30	75	95	110	)	115
Temporal High		137	147	79	90	) 107	176	194	212		218

UL Max. Current Draw (m/	RMS) 2-Wir		Standard (	Contract Con	/15_115 ed	1)			
O-Million Hardware and Million	8–17.5 V		16–33 V			<b>!</b>			
DC Input	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-Ternporal 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

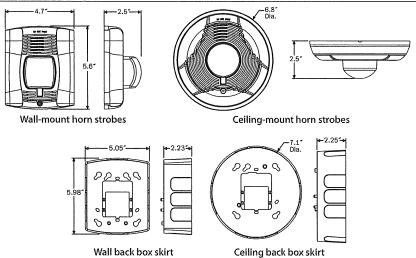
	16-33 \	/olts				16-33 Volts			
DC Input	135 150		177	185	FWR Input	135	150	177	185
Temporal High	245	259	290	297	Temporal High	215	231	258	265
Temporal Medium	235	253	288	297	Temporal Medium	209	224	250	258
Ternporal Low	232	251	282	292	Temporal Low	207	221	248	256
Non-Temporal High	255	270	303	309	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

#### **Horn Tones and Sound Output Data**

Horn and Horn Strobe Output (dBA)										
			8-17.5		16-33		24-Volt Nominal			
Switch			Volts	i .	Volts	i	Rever	berant	Aned	hoic
Position	Sound Pattern	dB	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 <sup>†</sup>	Coded	High	82	82	88	88	93	92	101	101
8 <sup>†</sup>	Coded	Medium	78	78	85	85	90	90	97	98
9†	Coded	Low	75	75	81	81	88	85	96	92

<sup>&</sup>lt;sup>†</sup>Settings 7, 8, and 9 are not available on 2-wire horn strobe.

#### **SpectrAlert Advance Dimensions**



#### **SpectrAlert Advance Ordering Information**

Description
Strobes
2-Wire Horn Strobe, Standard cd <sup>‡</sup> , Red
2-Wire Horn Strobe, High cd, Red
2-Wire Horn Strobe, Standard cd, White
2-Wire Horn Strobe, High cd, White
4-Wire Horn Strobe, Standard cd, Red
4-Wire Horn Strobe, High cd, Red
4-Wire Horn Strobe, Standard cd, White
bes
Strobe, Standard cd, Red
Strobe, High cd, Red
Strobe, Standard cd, White
Strobe, High cd, White
orn Strobes
2-Wire Horn Strobe, Standard cd, Red
2-Wire Horn Strobe, High cd, Red
2-Wire Horn Strobe, Standard cd, White
2-Wire Horn Strobe, High cd, White
4-Wire Horn Strobe, Standard cd, Red
4-Wire Horn Strobe, High cd, Red
4-Wire Horn Strobe, Standard cd, White

Non-dell	
Model	Description
Ceiling St	robes
SCR	Strobe, Standard cd, Red
SCRH	Strobe, High cd, Red
SCW*	Strobe, Standard cd, White
SCWH	Strobe, High cd, White
Horns	
HR	Horn, Red
HW	Horn, White
Accessori	es
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
TR-HS	Trim Ring, Wall, Red
TRW-HS	Trim Ring, Wall White
TRC-HS	Trim Ring, Ceiling, Red
TRCW-HS	Trim Ring, 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.

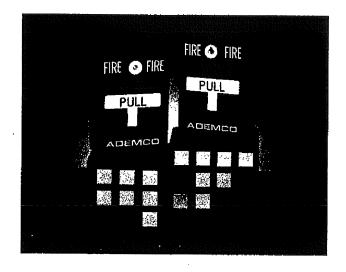




### 5140MPS-1/5140MPS-2 Manual Pull Stations

#### 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**

Ademoo'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 Ademoc 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 end 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 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 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



#### ORDERING INFORMATION

5140MPS-1:

Manual Station

Key Reset Test

and Terminal Block

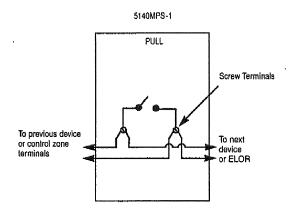
5140MPS-2:

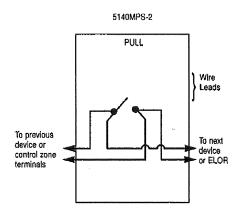
Manual Station

Hex Allen Reset Test and Wire Leads

5140MPS-BB: Surface Backbox

#### WIRING DIAGRAM





#### ARCHITECTURAL/ENGINEERING SPECIFICATIONS

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

An operated station shall automatically condition itself so as to be visually detected, as operated, at a minimum distance of one hundred feet, front or side.

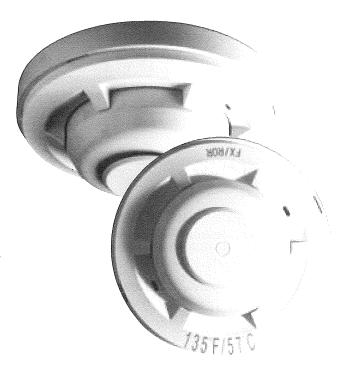
Manual Stations shall be constructed of die cast
aluminum alloy with clearly visible operating instructions provided on the cover. The word FIRE shall
appear on the front of the stations in reised letters.

Stations shall be suitable for surface mounting on
matching Backbox, or sami-flush mounting on a
standard single-gang box. Manual Stations shall be
Underwriter's Laboratories Listed.



# **5600 Series Mechanical Heat Detectors**

System Sensor's 5600 series mechanical heat detectors offer a low-cost means for property protection against fire, and for non-life-safety installations where smoke detectors are inappropriate.



#### **Features**

- · Multiple configurations for installations:
  - Single- and dual-circuit models
  - Fixed temp and combination fixed-temp/rate-of-rise 135°F or 194°F ratings.
- Plain housing for residential installations (Model 5601P)
- · Easy-to-use terminal screws
- · A broad range of back box mounting options:
  - Single gang
  - 3.5" and 4" Octagonal
  - 4" square with square to round plaster ring
- · Reversible mounting bracket

**Multiple configurations.** The 5600 series offers a full-line of configurations to accommodate a broad range of applications. Both single- and dual-circuit models are available for low- and high-temperature ratings with either fixed temperature or combination fixed temperature/rate-of-rise (ROR) activation. The ROR element of the fixed/ROR models is restorable to accommodate field-testing.

**Installation flexibility.** To satisfy a variety of installation needs, the 5600 series easily mounts to single-gang and octagonal back boxes. And these models accommodate four-square back boxes, when used with a square to round plaster ring. The reversible mounting bracket permits both flush- and surface-mount back box installations.

**Visual identification.** The 5600 series provides clear markings on the exterior of the unit to ensure that the proper detector is being used. Alphanumeric characters identify the activation method, as well as the temperature rating, in Fahrenheit and Celsius degrees. Fixed temperature models are identified FX, while combination fixed/rate-of-rise units are marked FX/ROR. The 5600 series also provides a post-activation indicator in the form of a collector. When the detector is activated, the collector drops from the unit, making it easy to identify the unit in alarm.

#### **Agency Listings**







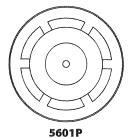


#### **Specifications**

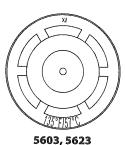
#### Architectural/Engineering Specifications

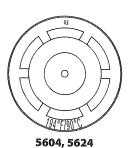
Mechanical heat detector shall be a System Sensor 5600 series model number \_\_\_\_\_\_\_, listed to Underwriters Laboratories UL 521 for Heat Detectors for Fire Protective Signaling Systems. The detector shall be either a single-circuit or a dual-circuit type, normally open. The detector shall be rated for activation at either 135°F (57°C) or 194°F (90°C), and shall activate by means of a fixed temperature thermal sensor, or a combination fixed temperature/rate-of-rise thermal sensor. The rate-of-rise element shall be activated by a rapid rise in temperature, approximately 15°F (8.3°C) per minute. The detector shall include a reversible mounting bracket for mounting to 3½-inch and 4-inch octagonal, single gang, and 4-inch square back boxes with a square to round plaster ring. Wiring connections shall be made by means of SEMS screws that shall accommodate 14–22AWG wire. The detector shall contain alphanumeric markings on the exterior of the housing to identify its temperature rating and activation method. The rate-of-rise element of combination fixed temperature/rate-of-rise models shall be restorable, to allow for field-testing. The detectors shall include an external collector that shall drop upon activation to identify the unit in alarm.

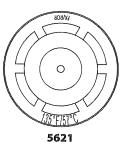
	include an external collector that shall drop upon activation to identify the unit in alarm.
Physical/Operating Specifications	
Maximum Installation Temperature	5601P, 5603, 5621, and 5623: 100°F (38°C)
	5602, 5604, 5622, and 5624: 150°F (65.6°C)
Operating Humidity Range	5 to 95% RH non-condensing
Dimensions with mounting bracket	Diameter: 4.57 inches (11.6cm)
	Height: 1.69 inches (4.3cm)
Alarm Temperature	5601P, 5603, 5621, and 5623: 135°F (57°C)
	5602, 5604, 5622, and 5624: 194°F (90°C)
Weight	6 oz. (170 grams)
Rate-of-Rise Threshold	15°F (8.3°C) rise per minute (models 5601P, 5602, 5621, and 5622 only)
Mounting	3½-inch octagonal back box
	4-inch octagonal back box
	Single gang back box
	4-inch square back box with a square to round plaster ring
Electrical Specifications	
Operating Voltage / Contact Ratings	6-125VAC / 3A
	6-28VDC / 1A
	125VDC / 0.3A
	250VDC / 0.1A
Input Terminals	14–22 AWG











#### **Ordering Information**

Model	Circuit	ldentification Method on Exterior	Temperature Rating	Activation	UL Protected Spacing – 10 Foot Ceiling*
5601P	Single	None	135°F (57°C)	Fixed Temperature / Rate-of-Rise	50 feet × 50 feet (15.24m × 15.2m)
5602	Single	Lettering	194°F (90°C)	Fixed Temperature / Rate-of-Rise	50 feet × 50 feet (15.24m × 15.2m)
5603	Single	Lettering	135°F (57°C)	Fixed Temperature	25 feet × 25 feet (7.62m × 7.62m)
5604	Single	Lettering	194°F (90°C)	Fixed Temperature	25 feet × 25 feet (7.62m × 7.62m)
5621	Dual	Lettering	135°F (57°C)	Fixed Temperature / Rate-of-Rise	50 feet × 50 feet (15.24m × 15.2m)
5622	Dual	Lettering	194°F (90°C)	Fixed Temperature / Rate-of-Rise	50 feet × 50 feet (15.24m × 15.2m)
5623	Dual	Lettering	135°F (57°C)	Fixed Temperature	25 feet × 25 feet (7.62m × 7.62m)
5624	Dual	Lettering	194°F (90°C)	Fixed Temperature	25 feet × 25 feet (7.62m × 7.62m)

<sup>\*</sup>NOTE: Refer to NFPA72 guidelines for spacing reductions when ceiling heights exceed 10 feet.





# PORTLAND MAINE

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

Receipts Details:

Tender Information: Check, Check Number: 17478

**Tender Amount: 50.00** 

Receipt Header:

Cashier Id: bsaucier Receipt Date: 10/3/2012 Receipt Number: 48904

Receipt Details:

Referance ID:	8240	Fee Type:	BP-FIRE
Receipt Number:	0	Payment Date:	
Transaction Amount:	50.00	Charge Amount:	50.00

Job ID: Job ID: 2012-03-3490-ALTCOMM - Single story addition to commercial building

Additional Comments: 68 Waldron

Thank You for your Payment!

## **CUNNINGHAM**

RECIEVEN

## **Security Systems**

10 Princes Point Road • Yarmouth, Maine 04096 (207) 846-3350 • Fax (207) 846-6080 • (800) 210-0257

February 5, 2013

Code Enforcement Office City of Portland 389 Congress Street Portland, ME 04101 (207) 874-8705 Fax#: (207) 874-8716

To Whom It May Concern:,

This letter is to inform you that on October 26, 2012, we completed the installation, programming and testing of the new fire alarm devices added to the new space at Maine Parts & Machine located at 68 Waldron Way in Portland, Maine. These new devices were tied into the existing fire alarm control panel and programmed and test to NFPA 72 standards. Signals were sent from these devices to our central monitoring station. These devices were all found to be fully functional at that time.

Should you have any questions or comments regarding this matter, please feel free to contact me at (207) 846-3350.

Sincerely,

Ronald S. Sneider, Manager

cc: Acct. File

#### PLUMBING APPLICATION **PROPERTY ADDRESS** Town or LAND Plantation Street ALORON Subdivision Lot # PROPERTY OWNERS NAME \_Last: Applicant Name: Mailing Address of Owner/Applicant (If Different)

# 11956

Caution: Permit Required Plumbing shall not be installed until a Permit is attached here by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the plumbing in accordance with this

00124671

application and the Maine Plumbing Rules.

Caution: Inspection Required

ed the installation authorized above and found it to be in complia with the Maine Plumbing Rules.

Local Plumbing Inspector Signature

Date Approved

#### Owner/Applicant Statement

Leertify that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Local Plumbing Inspectors to deny a Permit.

Signature of Owner/Applicant

This Application is for

1. M NEW PLUMBING

2. 

RELOCATED **PLUMBING** 

#### INFORMATION PER MIT

#### Type of Structure To Be Served:

Date

- 1. 

  SINGLE FAMILY DWELLING
  - 2. MODULAR OR MOBILE HOME
- 3. MULTIPLE FAMILY DWELLING
- 4. OTHER SPECIF

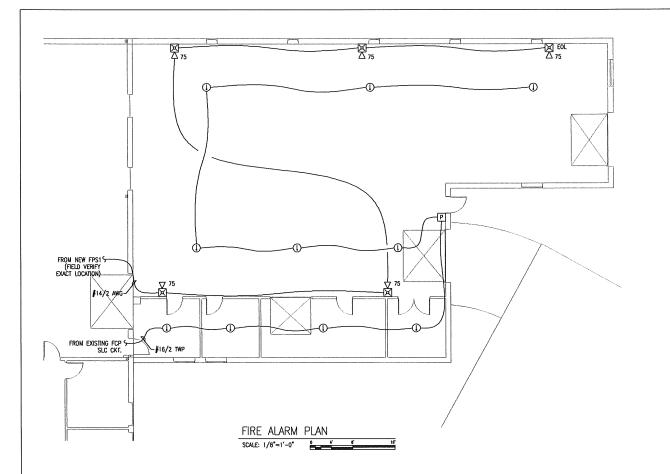
#### Plumbing To Be Installed By:

- 1. MASTER PLUMBER
- 2. 

  OIL BURNERMAN
- 3. MFG'D. HOUSING DEALER/MECHANIC
- 4. DUBLIC UTILITY EMPLOYEE
- 5. PROPERTY OWNER

LICENSE # DRGGG

#### Hook-Up & Piping Belocation Maximum of 1 Hook-Up Column 2 Column<sub>1</sub> Number Type of Fixture Type of Fixture Number HOOKUP: to public a ver in those cases where the connection is not requirated and inspected by the local banitary District positions the local banitary District positions. Hosebib / Sillcock Bathtub (and Shower) Floor Drain Shower (Separate) Urinal City of HOOK-UP: to an existing subsurface Drinking Fountain Wash Basin wastewater disposal system. Indirect Waste Water Closet (Toilet) PIPING RELOCATION: of sanitary Water Treatment Softener, Filter, etc. lines, drains, and piping without new fixtures. Clothes Washer Grease / Oil Separator Dish Washer Roof Drain Garbage Disposal OR. **Bidet** Laundry Tub Other: Water Heater TRANSFER FEE [\$6.00] Fixtures (Subtotal) Fixtures (Subtotal) Column 2 Column 1 Fixtures (Subtotal) 6 Column 2 SEE PERMIT FEE SCHEDULE **Total Fixtures** FOR CALCULATING FEE Fixture Fee Transfer Fee Hook-Up & Relocation Fee Permit Fee Page 1 of 1 STATE COPY HHE-211 Rev. 08/05 (Total)



VISTA-128FBP

(DEDICATED CIRCUIT)

DIALER

TO OFF PREMESIS

-(EXISTING ZONE)

#14/2 AWG (SYNC & TROUBLE SUPERVISION)

FPS1 Bat	tery C	alc	ulation		9/27/2012
PROJECT NAME: Required Standby Time: Required Alarm Time:		TS & Hour Minu	5		
Regulate	d Load ir	Sta	andby		
Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
AL802ULADA Main Circuit Board	1	Х	0.09000	172	0.09000
TOTAL STANDBY LOA	0				0.09000
Regulat	ed Load i	n Al	ARM		
	Number		Current		Total Current
Device Type	of Devices		(Amps)		(Amps)
AL802ULADA Main Circuit Board	1	X	0.17500		0.17500
FPS1-1	1 1	<u> </u>	0.088,0	=	0.0088,0
TOTAL ALARM LOA	D				1.05500
Batte	ry Requir	eme	nts		
Standby Load			Required Stand	by Tir	ne in Hours
Current (Amps)	0.09000	X	24.00000	_	2,16000
Aarm Load			Required Alarm	Time	
Current (Amps)	1.05500	Х	0.08333		0.08792
Total Ampere Hours (before derating factor)					2.24792
Derating Factor				Х	1.2
TOTAL AMPERE HOURS REQUIRE	D			152	2.69750
BATTERIES TO BE PROVIDED (2 - 12v)					7 AH

NAC Circuit Voltage Drop Ca	lculation				9/27/2012
Project Name	ſ	MAINE PART	S & MACHINE		
Circuit Number	t	FPS1-1			
Nominal System Voltage	ſ	20,4	volts	Wire	Resistance
Minimum Device Voltage	İ	15	volts	Gauge	Per 1000
Distance from source to 1s	device	50	1	14	6.14
Wire Gauge for balance of a	ircuit			14	6.14
Max Output Current	ſ	2.0	amps		
Total Circuit Current	,	0.880			
Circuit is within limits	T	Distance			-
	Device	previous	Voltage at	Drop from	Percent
	Current	device	Device	source	Drop
Device 1	0.176		20.13	0.27	1%
Device 2	0.176	43	19.94	0.46	2%
Device 3	0.176	88	19.66	0.74	4%
Device 4	0.176	36	19.58	0.82	4%
Device 5	0.176	36	19.54	0.86	4%
Totals	0.880	253			

#### GENERAL NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- INSTALLATION SHALL COMPLY WITH NEC, NFPA 72 AND ALL OTHER APPLICABLE CODES AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- 3. WIRING DEPICTED ON THESE PLANS IS SCHEMATIC ACTUAL WIRE LOCATIONS MAY DIFFER FROM THESE PLANS. WIRING SHALL BE PERFORMED AS ACTUAL BUILDING CONSTRUCTION CONDITIONS ALLOW AND TO MINIMIZE PENETRATIONS THROUGH AREA SEPARATION WALLS AND FIRE WALLS. THE USE OF A RACEWAY IS PERMITTED AS LONG AS NO 110V OR HIGHER VOLTAGE CABLES ARE IN THE SAME RACEWAY.
- 4. FIRE RATINGS SHALL BE MAINTAINED FOR ALL PENETRATIONS THROUGH FIRE-RATED
- 5. POWER FOR ALL FIRE ALARM PANELS AND FIRE ALARM POWER SUPPLIES MUST BE PROVIDED BY A DEDICATED AC BRANCH CIRCUIT.
- 6. POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST REMAIN SEPARATED IN CABINET. ALL POWER-LIMITED CIRCUIT WIRING MUST REMAIN AT LEAST 0.25" AWAY FROM ANY NONPOWER-LIMITED CIRCUIT WIRING. FURTHERMORE, ALL POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT THE CABINET THROUGH DIFFERENT KNOCK OUTS AND/OR SEPARATE CONDUITS.
- 7. WHEN UTILIZING CLASS "A" CIRCUITS, SEPARATE OUTGOING AND RETURN CONDUCTORS OF CLASS "A" CIRCUITS BY A MINIMUM OF 12" WHERE RUN VERTICALLY AND 48" WHERE RUN HORIZONTALLY.
- WHEN UTILIZING SHIELDED CABLE TIE SHIELDS THROUGH AND INSULATE AT EACH JUNCTION BOX. INSULATE AND TAPE BACK AT END.
- 9. ALL FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE.
- 10. SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED AND FINAL.
- 11. LOCATE SMOKE DETECTORS A MINIMUM OF THREE (3) FEET FROM MECHANICAL DIFFUSERS. WALL-MOUNTED SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 4" AND A MAXIMUM OF 12" FROM CEILUNG. CEILUNG-MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON CEILUNGS AND NOT ON THE BOTTOMS OF BEAMS OR JOISTS.
- 12. PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS. PROVIDE ALL REQUIRED SYNC MODULES. PROVIDE A MULTI-SYNC MODE SLAVE CONNECTION BETWEEN ALL SYNC MODULES.
- 13. VERIFY ALL FIELD SELECTABLE AUDIBILITY SETTINGS OF NOTIFICATION APPLIANCES WITH FIRE ALARM CONTRACTOR.
- 14. UPON COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION AND PROGRAMMING, THE INSTALLING CONTRACTOR SHALL PERFORM FINAL TESTING OF THE ENTIRE SYSTEM, PER ALL APPLICABLE CODES, AND SHALL COORDINATE AND PERFORM A FINAL FIRE ALARM SYSTEM INSPECTION.
- PROVIDE OFF-SITE MONITORING AS REQUIRED BY THE INTERNATIONAL FIRE CODE, SECTION 907.15 AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- Installing Contractor Shall, Physically, Label all Initiating Devices and Notification appliance circuit end of line (When Wiring Class "B"). These Labels Shall Be in Place Prior to Start-UP and Testing.

-0 - 0 - 0 - 0 - 0 - 0 - 0 - 0

( INDICATING CKT. )

FIRE ALARM RISER DIAGRAM

\_\_\_∇<sup>75</sup>

WIRE NOTE: VERIFY EXACT WIRE TYPE WITH FIRE ALARM CONTRACTOR BEFORE ORDERING.

14/2 AWG (STYLE Y)

SPARE

SPARE

AL842ULADA

POWER SUPPLY

120 VAC 5 (DEDICATED CKT.)

	FI	RE ALARM SYMB		IND		
SYMBO	L	DESCRIPTION	DESCRIPTION			
FCP		FIRE ALARM CONTROL PANEL	WALL-TOP @ 66"			
[FPS]		FIRE ALARM POWER SUPPLY	FIELD VERIFY			
FSA		FIRE SYSTEM ANNUNCIATOR	WALL-TOP @ 66"			
FSD		FIRE/SMOKE DAMPER	BY OTHERS			
(3)		SMOKE DETECTOR		CEILING		
<b>@</b> =	-	DUCT SMOKE DETECTOR		BY OTHERS		
0		HEAT DETECTOR		CEIUNG		
CM		ADDRESSABLE CONTROL MODULE		FIELD VERIFY		
мм		ADDRESSABLE MONITOR MODULE				
P		MANUAL PULL STATION	WALL-TOP @ 48"			
R		CONTROL RELAY (MULTI-VOLTAGE)	FIELD VERIFY			
RM		ADDRESSABLE RELAY MODULE	FIELD VERIFY			
_გ_		MAGNETIC DOOR HOLDER	FIELD VERIFY			
\$		WATER FLOW SWITCH	BY OTHERS			
		VALVE TAMPER SWITCH	BY OTHERS			
兄		BELL	BY OTHERS			
Ø		CEILING MOUNT STROBE	FIELD VERIFY			
Ø		CEILING MOUNT HORN / STROBE	FIELD VERIFY			
Ø		CEILING MOUNT SPEAKER / STROBE	FIELD VERIFY			
	4	HORN	WALL @ 10'-0			
<b>X</b>	4	HORN / STROBE	WALL 80"-96"			
[55]	4	SPEAKER / STROBE	WALL 80"-96"			
SP	◁	SPEAKER		WALL 6 90"		
×		STROBE		WALL 80"-96"		
ABBREVI	ATION	DESCRIPTION	FOREINGS FEEL	1 -579095   121/		
E		EXISTING	WATTAGE (JW)	75 ~ 5788E~ 30		
G P		WITH GUARD PENDENT MOUNT				
R		RESIDENTIAL (110V)	(S) ~ DEV	ICE ADDRESS 🔍 🕕		

END OF UNE RELAY

AMERICAN WIRE GAUGE

TWISTED PAIR

TWISTED SHIELDED PAIR

FIRE POWER LIMITED PLENUM

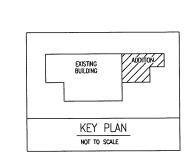
FIRE POWER LIMITED RISER

ADDITION OPERATIONS MATRIX	FIRE ALARM OUTPUT	activate alarm indicator	ACTIVATE AUDIBLE ALARM	ACTIVATE TROUBLE INDICATOR	ACTIVATE AUDIBLE TROUBLE INDICATOR	TRANSMIT ALARM SIGNAL	CANONIA TOOLING CICARI
HEAT DETECTORS		•		H	-		H
PULL STATIONS		•	•	<u> </u>		•	Т
FIRE ALARM AC POWER FAIL	-		<u> </u>	•			•
FIRE ALARM LOW BATTERY				•	•		1
OPEN CIRCUIT				•	•		1
GROUND FAULT					•		1
NAC SHORT CIRCUIT				•	•		•
LOSS OF AC TO BUILDING		Г					•

L10001 QR

-1-#16/2 TWP

(0 or N - DENOTES DETECTOR OR MODULE #)





PARTS & MACHINE ADDITION	HUNINNII
68 WALDRON WAY	
PORTLAND, MAINE	Security System

MAINE

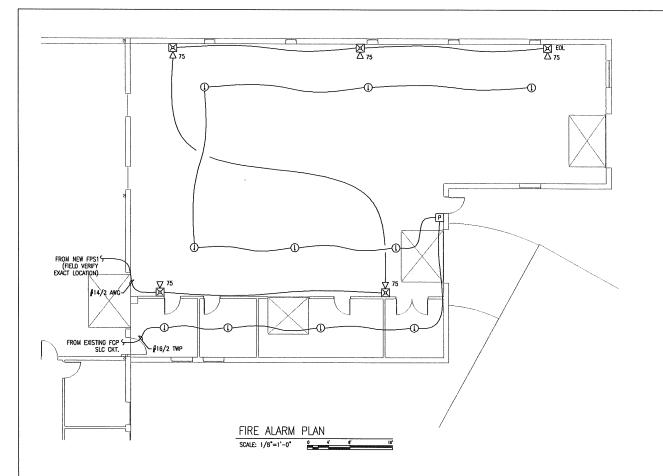
**ALARM PLAN** 

FIRE

S

stem

JPB UNICAD JOB #12416 WAYNE B. HAWS NICET IV 90496 CHECKED 9/26/2012 DATE REVISION SCALE 1/8" = 1'-0"



VISTA-128FBP

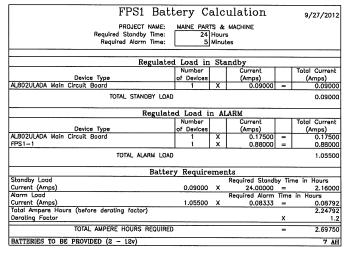
120 VAC S (DEDICATED CIRCUIT)

DIALER

TO OFF PREMESIS MONITORING CONTRACTOR

►(EXISTING ZONE)

#14/2 AWG (SYNC & TROUBLE SUPERVISION)



Project Name		MAINE PART	S & MACHINE		
Circuit Number		FPS1-1			
Nominal System Voltage		20.4	volts	Wire	Resistance
Minimum Device Voltage		16	volts	Gauge	Per 1000
Distance from source to 1st	device	50		14	6.14
Wire Gauge for balance of o	circuit			14	6.14
Max Output Current		2.0	amps		
Total Circuit Current		0.880			
Circuit is within limits	ľ	Distance			
	Device	previous	Voltage at	Drop from	Percent
	Current	device	Device	source	Drop
Device 1	0.176		20.13	0.27	1%
Device 2	0.176	43	19.94	0.46	2%
Device 3	0.176	88	19.66	0.74	4%
Device 4	0.176	36	19.58	0.82	4%
Device 5	0.176	36	19.54	0.86	4%

#### **GENERAL NOTES:**

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- 8. WHEN UTILIZING SHIELDED CABLE TIE SHIELDS THROUGH AND INSULATE AT EACH JUNCTION BOX. INSULATE AND TAPE BACK AT END.
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- 11. LOCATE SMOKE DETECTORS A MINIMUM OF THREE (3) FEET FROM MECHANICAL DIFFUSERS. WALL-MOUNTED SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 4" AND A MAXIMUM OF 12" FROM CEILUNG. CEILUNG-MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON CEILINGS AND NOT ON THE BOTTOMS OF BEAMS OR JOISTS.
- 12. PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS. PROVIDE ALL REQUIRED SYNC MODULES. PROVIDE A MULTI-SYNC MODE SLAVE CONNECTION BETWEEN ALL SYNC MODULES.
- 13. VERIFY ALL FIELD SELECTABLE AUDIBILITY SETTINGS OF NOTIFICATION APPLIANCES WITH FIRE ALARM CONTRACTOR.
- 14. UPON COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION AND PROGRAMMING, THE INSTALLING CONTRACTOR SHALL PERFORM FINAL TESTING OF THE ENTIRE SYSTEM, PER ALL APPLICABLE CODES, AND SHALL COORDINATE AND PERFORM A FINAL FIRE ALARM SYSTEM INSPECTION.
- PROVIDE OFF-SITE MONITORING AS REQUIRED BY THE INTERNATIONAL FIRE CODE, SECTION 907.15 AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- INSTALLING CONTRACTOR SHALL, PHYSICALLY, LABEL ALL INITIATING DEVICES AND NOTIFICATION APPLIANCE CIRCUIT END OF LINE (WHEN WIRING CLASS "B"). THESE LABELS SHALL BE IN PLACE PRIOR TO START-UP AND TESTING.

-0--0--0-

( INDICATING CKT. )

▽ <sup>75</sup>

▼ <sup>75</sup> 

FIRE ALARM RISER DIAGRAM

SCHEMATIC: NO SCALE

-P---(I)--

-#14/2 AWG (STYLE Y)

WIRE NOTE: VERIFY EXACT WIRE TYPE WITH FIRE ALARM

CONTRACTOR BEFORE ORDERING.

SPARE

SPARE

ALTRONIX

AL842ULADA

POWER SUPPLY

BATTERY GALTERY 120 VAC 5 (DEDICATED CKT.)

F	IRE ALARM SYME		END
SYMBOL	DESCRIPTION		MOUNTING
FCP	FIRE ALARM CONTROL PANEL		WALL-TOP @ 66"
FPS	FIRE ALARM POWER SUPPLY		FIELD VERIFY
FSA	FIRE SYSTEM ANNUNCIATOR		WALL-TOP @ 66"
FSD.	FIRE/SMOKE DAMPER		BY OTHERS
②	SMOKE DETECTOR		CEIUNG
@	DUCT SMOKE DETECTOR		BY OTHERS
①	HEAT DETECTOR		CEIUNG
CM	ADDRESSABLE CONTROL MODULE		FIELD VERIFY
мм	ADDRESSABLE MONITOR MODULE		FIELD VERIFY
P	MANUAL PULL STATION		WALL-TOP @ 48"
R	CONTROL RELAY (MULTI-VOLTAGE)		FIELD VERIFY
RM	ADDRESSABLE RELAY MODULE		FIELD VERIFY
_g_	MAGNETIC DOOR HOLDER		FIELD VERIFY
\$	WATER FLOW SWITCH		BY OTHERS
&	VALVE TAMPER SWITCH		BY OTHERS
兄	BETT		BY OTHERS
Ø	CEILING MOUNT STROBE		FIELD VERIFY
Œ	CEILING MOUNT HORN / STROBE		FIELD VERIFY
Ø	CEILING MOUNT SPEAKER / STROBE		FIELD VERIFY
	HORN		WALL @ 10'-0
	HORN / STROBE		WALL 80"-96"
<b>⊠</b> ⊲	SPEAKER / STROBE		WALL 80"-96"
SP<<	SPEAKER		WALL @ 90"
×	STROBE		WALL 80"-96"
ABBREVIATION	DESCRIPTION	FEL	1
E G	EXISTING WITH GUARD	WARRE (JW)	
P	PENDENT MOUNT		
R	RESIDENTIAL (110V)	(S) /-06Y	ce address 🔪 🕕
\$	SOUNDER BASE	L10001	OR DOI
WP EOL	WEATHER PROOF END OF LINE RESISTOR	(0 or M - DENOTE	enotes loop () s detector or module ()
EOLR	END OF LINE RELAY		
AWG	AMERICAN WIRE GAUGE	/-1- <u>#</u> 16/2	
TWP	TWISTED PAIR	-X ///	WIRE TYPE ABBREVIATED CONDUCTOR COUNT
TWSP	TWISTED SHIELDED PAIR	1//	WRE SIZE
TWSP	TWISTED SHIELDED PAIR	1/	CONDUCTOR COUNT WRE SIZE

END OF LINE RELAY

AMERICAN WIRE GAUGE

TWISTED PAIR

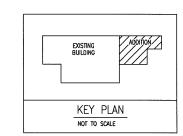
TWISTED SHIELDED PAIR

FIRE POWER LIMITED PLENLIM

FIRE POWER LIMITED RISER

ADDITION OPERATIONS MATRIX	FIRE ALARM OUTPUT	activate alarm indicator	ACTIVATE AUDIBLE ALARM	activate trouble indicator	activate audible trouble indicator	transmit alarm signal	TRANSMIT TROUBLE SIGNAL
HEAT DETECTORS		0				•	
PULL STATIONS		•	•			•	
FIRE ALARM AC POWER FAIL				•	•		
FIRE ALARM LOW BATTERY				•	•		•
OPEN CIRCUIT				•	•		•
GROUND FAULT				•	•		•
NAC SHORT CIRCUIT				•	•		•
LOSS OF AC TO BUILDING				•			

- wide 117-e abbrevaled
- conductor count
- wre size
- f of cables (if omitted)
Only 1 cable needed)





**ADDITION** MAINE WALDRON WAY MACHINE PORTLAND, ⋖ర **PARTS** 68 MAINE

FIRE ALARM PLAN

stem

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Security

CUNNINGH

DRAWN	JPB UNICAD JOB #12416
CHECKED	WAYNE B. HAWS NICET IV 90496
DATE	9/26/2012
REVISION	0
SCALE	1/8" = 1'-0"