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Inspections Division
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Battery Circuit Calculations

Before selecting the battery, it is important to determine the minimum size batteries for standby and alarm tin application. If the wrong batteries are installed in a specific application or incorrect current draw used, the prc minimum alarm time will not be present.

The battery circuit is rated for 8 to 18 AH batteries and swill operate the panel alarm for at least 24 hours and cabinet will house up to two (2) 8 AH or two (2) 18 AH batteries. Date: 02/10/15

Please use the worksheet shown below to calculate the battery size and current draw required for each application:

Battery Calculation Worksheet

Description	Quantity	Standby (mA)	Total Standby (mA)	Alarm (mA)	Total Alarm (mA)
Main board (PFC-6006)	1	105	105	160	160
LCD Remote RA-6075 or RA-6006		20		25	
Input Circuit #1					
Input Circuit #2					
Input Circuit #3					
Input Circuit #4					
Input Circuit #5					
Input Circuit #6					
NAC 1	1				1000
		Total (ma)	105	Total (ma)	1160
		Convert to Amps	x 0.001	Convert to Amps	x 0.001
		(*Refer to maximum allowable standby current) Total A:	.105	Total A:	1.16
		Multiply by standby hours	24	60 minutes per hour Alarm time (minutes) Example: 5 minute alarm: enter 12	÷ 12
		Total Standby AH	2.52	Total Alarm AH	0.10
				+Total Standby AH	2.52
				Total AH	2.62
				Efficiency Factor	÷ 0.85
				Required AH	3.08

<p>*Maximum Allowable Standby Current (UL 24-Hour standby time)</p> <p>7 AH .244 A</p> <p>12 AH .421 A</p> <p>18 AH .634 A</p>	<p>Important Notes:</p> <ol style="list-style-type: none"> 1) FACP enclosure can house up to two (2) 18 AH batteries. 2) NFPA 72 requires 24 hours of standby power followed by 5 minutes of alarm activation. 3) Door holder circuits configured to disconnect upon AC loss need not be included in the battery standby calculation since they will not draw power during that time. Door holders will contribute to standby current draw when AC is present. 4) Total current must not exceed power supply rating (2A on PFC-6006). 5) LED/Relay current must be accounted for in the battery calculation for the supplying source.
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Protection Professionals

325 U.S. Route 1
 Falmouth, ME 04105
 Ph 207-775-5755
 Fax 207-781-2064

Device Lis



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Date: 02/10/15

Bill To Name / Address	Job Site
675 Forest Ave Northeast Electric 6 Day Road Gorham, Me 04038	675 Forest Ave Portland, Maine 04103

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

Estimate No.

Item	Description	Qty To Order	Qty Ordered
	This quote is based upon a fire alarm sprinkler monitoring system only. This quote would require two Fairpoint phone lines which are provided by the customer.	40	
PFC-6006-R-3992334	Conventional fire panel, 6 zones, 1 amp power supply, One NAC at 0.5 amps. 0.5 AUX power	1	
Bat 12-7	12V 7AH Batteries SEC-1075	2	
IM-RJ31XSET	IM-RJ31XSET	2	
BK-2WB	Smoke Detector 2-wire	1	
500-648507FA	Manual Pull Station (RMS-2T-LP-KL) DUAL STATION	1	
HS-24WR-4890030	Horn/strobe wall adjustable candela	1	
06-SSU00672	Fire Document box 12 inches wide X 13.1 inches high X 2.25 inches deep, CAT 30 keyed	1	
IK-1007	M101 lock set key, multiple cams 5.5% Maine Sales Tax	2	

Ordered By: _____

Date: _____

Received By: _____

Date: _____



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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





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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 Protect detector shall be a photoelectric type (Model 2W-B, 4W-B) or a combination photoelectric/thermal (Model 2WT-B, 4WT-B) with their (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 ring, or direct mount to the ceiling using drywall anchors. Wiring connections shall be made by means of SEMS screws. The detector 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 meas. The detector shall be capable of automatically adjusting its sensitivity by means of drift compensation and smoothing algorithms. Tl 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.

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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			Power Up Sequence for LED Indication	
LED Mode	Green LED	Red LED	Condition	Duration
Power up	Blink every 10 seconds	Blink every 10 seconds	Initial LED status indication	80 seconds
Normal (standby)	Blink every 5 seconds	off		
Out of sensitivity	off	Blink every 5 seconds		
Freeze trouble	off	Blink every 10 seconds		
Alarm	off	Solid		

Ordering Information

Model	Thermal	Wiring	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



3825 Ohio Avenue • St. Charles, IL 60174
Phone: 800-SENSOR2 • Fax: 630-377-6495

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Product specifications subject to change without notice. Visit systemsensor.com for current product information, including the latest version of this data sheet.
A05-0318-006 • 7/06 • #1676

NO EXCUSES!



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Fire Alarm Control Unit (FACU) Records & Document Box

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

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

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

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

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

NFPA 72 section 6.2.2.1 states, "A record of installed software and firmware version numbers shall be maintained at the location of the fire alarm control unit." The FDB is large enough to hold Operating Manuals, Permits, Shut-Down Instructions and more.

Standard Features:

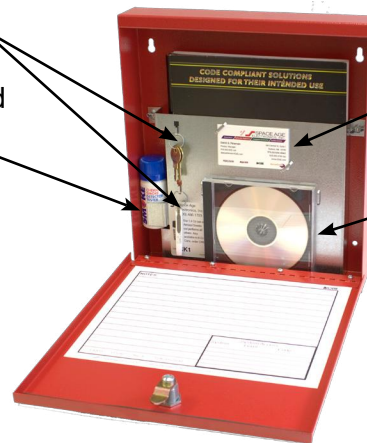
- Overall Dimensions are: 12" Wide x 13.1" High x 2.25" Deep
- CAT 30 Secured Locking Door
- Piano Hinged Door w/Notes Sticker
- Removable document holder can hold 1" of 8.5" x 11" paperwork
- Powder Coat Red Finish
- 16 Gauge CRS construction
- Embossed:
 - Key Ring Hooks
 - Business Card Holder
 -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

Key Ring Hooks

Canned Smoke

Business Card Holder

CD Jewel Case



Made In U.S.A.

ISO 9001 REGISTERED COMPANY



ADA

ACEBOX

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



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Sequence of Operations

Date: 02/10/15

	Audio/visual activation at FACP	Activate audible/visual signal at FACP & Annunciator	Device Description at FACP	Log event in system history	Silence of audible devices Including FACP & annunciator	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 Station at FACP	X	X	X	X				A	
Smoke detector at FACP	X	X	X	X				A	
Sprinkler flow or pressure switches	X	X	X	X				A	
Sprinkler Tamper, low temp, or low air		X	X	X				S	
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	

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Features

- 24VDC units have field selectable 75, & 110
- Super-Slide® Bracket - Ease of Supervision Testing
- Checkmate® - Instant Voltage Verification
- Synchronize strobe and/or horn with AVSM Control Module
- Prewire entire system, install mounting bracket, then install signals
- Documented lower installation and operating costs
- Input terminals accept 12 to 18 AWG
- Switch selection for high or low dBA
- Switch for chime, whoop, mechanical and 2400Hz tone
- Tamperproof re-entrant style grill
- Switch for continuous or temporal 3 tone (not available on whoop tone)
- Surface mount with the AVBB (Surface Mount Back Box)
- Silence audible while visual appliance will remain flashing (for use in accepted jurisdictions)
- Faceplate available in red or off-white

Operating Temperature

- 32°F to 120°F (0°C to 49°C). The HS and S Series are **not** listed for outdoor use.

Unit Dimensions

- 5" (12.7 cm) high x 4.5" (11.43 cm) wide x 2.5" (6.35 cm) deep



Description

The S-24/HS-24 Series is a low profile strobe and horn/strobe combination that offers dependable audible and visual alarms and the absolute lowest current available.

The S-24 & HS-24 Series 24VDC offers tamperproof field selectable candela options of 15, 30, 60, 75, and 110 candela.

The Strobe and Horn/Strobe offers a continuous or sync temporal three in 2400Hz and mechanical tone, a chime and whoop tone. All tones are easy for the professional to change in the field by the use of switches.

The S-24 & HS-24 Series has a minimal operating current and has a minimum flash rate of 1Hz regardless of input voltage.

This Series is shipped with a standard 4" metal mounting plate which incorporates the popular Super-Slide® feature that allows the installer to easily test for supervision. The product also features a locking mechanism which secures the product to the bracket without any screws showing.

The S-24/HS-24 also features the patented Checkmate® - Instant Voltage Verification feature which allows the installer to check the voltage drop draw and match it to the blueprint.

The S-24 & HS-24 Series appliances are ANSI/UL 464 and ANSI/UL 1971, listed for use with fire protective systems and are warranted for three years from date of purchase.

Tone Switch Locations

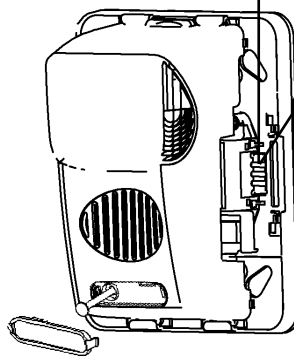
TONE	SWITCH POSITION		
	3	4	5
Mechanical Temporal 3	ON	ON	ON
Mechanical - Continuous	OFF	ON	ON
2400Hz - Temporal 3	ON	OFF	ON
2400Hz - Continuous	OFF	OFF	ON
Chime - Temporal 3	ON	ON	OFF
Chime - Continuous	OFF	ON	OFF
Whoop	ON	OFF	OFF
Whoop	OFF	OFF	OFF

NOTE:

- Switch Positions 1 and 2 in the OFF position to select isolated horn and strobe power inputs
- Switch Position 6 ON = HIGH dBA
- Switch Position 6 OFF = LOW dBA

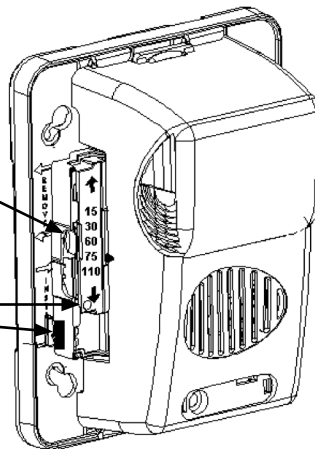
Super Slide® Mounting Bracket

Allows the installer to pre-wire the system, test for system supervision, remove the signal head until occupancy, switch out signals without changing mounting brackets and has locking edge connector for snap-in-place installation.



Candela selection slider switch. Depress center and slide switch to desire brightness level.

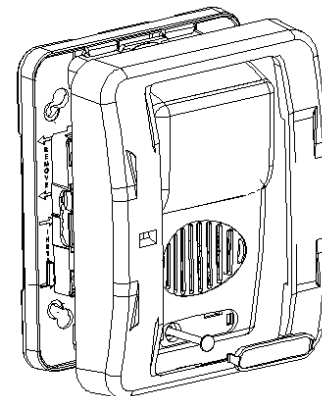
Break off pin and insert into hole at the bottom of the selector to lock candela setting. Signal must be removed from bracket and pin pushed forward from backside out of hole to change candela.



Checkmate® Instant Voltage Verification

It is often necessary to confirm the voltage drop along a line of devices. The access holes are provided in the back of the terminal block to allow the voltage to be measured directly without removing the device. Typically, this would be done at the end of line to confirm design criteria. Most measurements will be taken using the S+ and S- locations although access is provided to other locations.

NOTE: Care should be taken to not short the test probes.



To remove bezel, grip both sides of bezel and pull in a downward and outward motion.

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S-24 24 VDC Selectable Candela, Low Profile Evacuation Strobe

Model Number	Part Number	Nominal Voltage	Candela (ANSI/UL 1971)
S-24WR	4890010	24 VDC	15, 30, 60, 75, 110
S-24WW	4890011	24 VDC	15, 30, 60, 75, 110

HS-24 24 VDC Selectable Candela, Low Profile Evacuation Horn/Strobe

Model Number	Part Number	Nominal Voltage	Candela (ANSI/UL 1971)	Reverberant dBA at 10 ft., per ANSI/UL 464	In Anechoic Room dBA at 10 ft.
HS-24WR	4890030	24 VDC	15, 30, 60, 75, 110	62-82	100
HS-24WW	4890031	24 VDC	15, 30, 60, 75, 110	62-82	100

S-24 & HS-24 Product Strobe Current Ratings (mA)

	24 VDC (16-33 Volts)	
Candela	24 VDC	UL Max ¹
15 cd	30 mA	42 mA
30 cd	35 mA	58 mA
60 cd	66 mA	97 mA
75 cd	80 mA	116 mA
110 cd	103 mA	161 mA

Model Designations:

W = Wall Mount

R = Red Faceplate

W = White Faceplate

All units are available in plain (no lettering).

Plain units are non-returnable.

ALERT bezel available for order.

ALERT bezel available for order.

S-24 & HS-24 Product Horn Current Ratings

Horn Mode	Horn Decibel Levels		Horn Current Ratings
	Minimum SPL at 10 ft., per ANSI/UL 464 (HIGH)	Minimum SPL at 10 ft., per ANSI/UL 464 (LOW)	Regulated 24 VDC Max. Operating @ High Setting (mA)
Temp 3 2400 Hz	78 dBA	71* dBA	28 mA
Temp 3 Mechanical	76 dBA	70* dBA	25 mA
Temp 3 Chime	70* dBA	66* dBA	15 mA
Continuous 2400 Hz	81 dBA	74* dBA	28 mA
Continuous Mechanical	80 dBA	72* dBA	25 mA
Continuous Chime	70* dBA	66* dBA	15 mA
Whoop	82 dBA	69* dBA	56 mA

NOTES:

- For nominal and peak current across ANSI/UL regulated voltage range for filtered DC power and unfiltered (FWR [Full Wave Rectified]) power, see installation manual.
- Potter does not recommend using a coded or pulsing signaling circuit with any of our strobe products.
- The sound output for the temporal 3 tone is rated lower since the time the horn is off is averaged into the sound output rating. While the horn is producing a tone in the temporal 3 mode its sound pressure is the same as the continuous mode.
- * Operating the horn in this mode at this voltage will result in not meeting the minimum ANSI/UL 464 reverberant sound level required for public mode fire protection service. These settings are acceptable only for private mode fire alarm use. Use the high dBA setting for public mode application (not applicable when using the chime tone. The chime tone is always private mode).



Architect & Engineering Specifications

The audible and/or visible signal shall be Potter S-24 strobe and Potter HS-24 horn/strobe Series or approved by Underwriters Laboratories, Inc. per ANSI/UL 1971 and/or ANSI/UL 464. The notification appliance shall also be listed by Listing Service (FM) and the California State Fire Marshal (CSFM). Date: 02/10/15

The notification appliance (combination audible/visible) shall produce a peak sound output of 100dBA or greater at 24VDC as measured in an anechoic chamber. The signaling appliance shall also have the capability to silence the audible signal while leaving the visible signal energized with the use of a single pair of power wires. Additionally, the user shall be able to select either continuous or temporal tone output with the temporal signal having the ability to be synchronized.

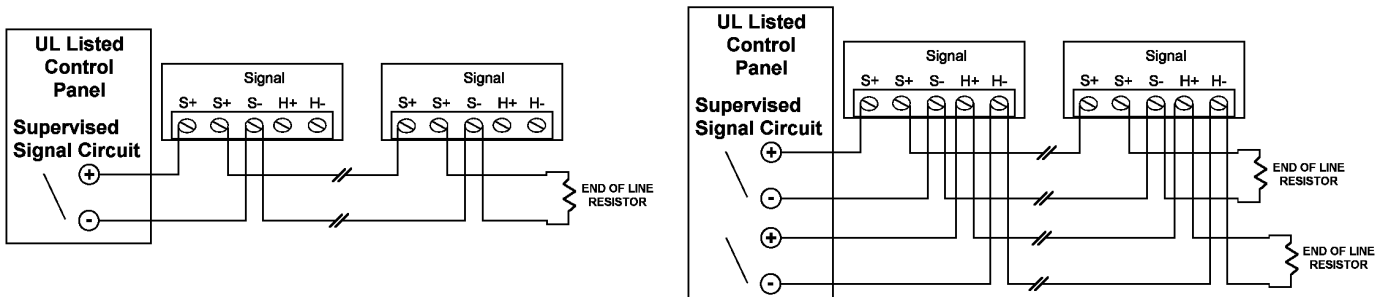
Unit shall be capable of being installed so that any unauthorized attempt to change the candela setting will result in a trouble signal at the fire alarm control panel.

The audible/visible and visible signaling appliance shall also maintain a minimum flash rate of 1Hz or up to 2Hz regardless of power input voltage. The strobe appliance shall have an operating current of 42mA or less at 24VDC for the 15Cd strobe circuit.

The appliance shall be polarized to allow for electrical supervision of the system wiring. The unit shall be provided with a mounting bracket with terminals and barriers for input/output wiring and be able to mount to a single gang or double gang box or double workbox without the use of an adapter plate. The unit shall have an input voltage range of 16-33 volts with either direct current or full wave rectified power for 24VDC models.

The appliance shall be capable of testing supervision without disconnecting wires, verify voltage without removing unit and be capable of mounting to a surface back box.

Conventional Wiring Diagrams for Emergency Notification Evacuation Series



NOTES:

- All strobes are designed to flash as specified with continuous applied voltage. Strobes should not be used on coded or pulsing signaling circuits. However, use of the Potter AVSM control module or Gentex synchronization protocol is permitted to synchronize the strobe, horn, and/or mute the horn.
- **FOR SYNCHRONIZATION WIRING INFORMATION, REFERENCE AVSM CONTROL MODULE DATA SHEET (8830050) AND/OR AVSM CONTROL MODULE MANUAL FOR SYNCHRONIZATION MODULE WIRING DIAGRAMS. AVSM CONTROL MODULE DATA SHEET AND MANUAL CAN BE OBTAINED AT <http://pottersignal.com> OR CALL POTTER ELECTRIC AT 1-800-325-3936.**



S735 7165-0328:0204

Features:

- 6 Programmable Initiating Device **Date:** 02/10/15
- Class A or Class B Waterflow Initiating Circuit
- 2 Wire Smoke Detector Compatibility
- 1.0 Amp Power Supply
- 1 Notification Circuit rated at 0.5 Amps Regulated
- Strobe Synchronization for Potter/AMSECO, Gentex, System Sensor and Cooper/Wheelock
- 0.5 Amp Auxiliary Power, Programmable as Constant or Resettable
- 2 x 16 LCD display with system LEDs for clear system status
- Keypad for system features
- P-Link for Remote Annunciator Connections
- Capacity to charge and house 18AH batteries
- Onboard Dual Line Digital Alarm Communicator
- Built-in Ethernet Connection with listed IP Communicator
- Ability to E-mail system status, reports and system configuration
- Service Reminder E-mails

Electrical Specs

AC Mains

- 1.0 amp @ 120 VAC 60 Hz

Battery

- 105 mA Standby
- 160 mA Alarm

Dimensions

- 18 1/2" H x 14 1/4 W x 4 3/4" D

General Description

The PFC-6006 is a listed small conventional fire system ideally suited to monitor a small fire system such as a fire sprinkler system. The first input is selectable as a Class A or Class B water flow input and the other five zones are selectable from a menu of options including two-wire smoke detection. The panel has a 1.0 amp power supply that powers the panel, charges the batteries and supplies 0.5 amps to a notification appliance circuit and 0.5 amps of auxiliary power. The auxiliary power is programmable as constant or resettable.

The control panel is in a metal cabinet with a key lock and lexan window for viewing the system status. The printed circuit assembly is mounted for quick removal and installation to allow the cabinet to be installed with minimal effort. The cabinet houses up to two 12VDC, 18 AH batteries.

The display is a thirty-two (32) character LCD with system status LEDs. The system status is clearly displayed and the panel includes a history buffer for past events. The key pad allows navigation into the system menu, limited programming and system control. The condition and events on the panel are clearly displayed to allow the user and installer to determine the system status.

The panel has a dual telephone line digital alarm communicator transmitter (DACT) built on-board. One or both telephone lines may be enabled to allow communication to a remote monitoring station. In addition, an updated panel configuration may be sent to the panel through the telephone lines. The panel has line in and line out to allow the panel to be installed ahead of other telephone equipment on the premises.

The panel will support up to four (4) of the RA-6075 remote annunciators on the P-Link bus. These annunciators include a metal enclosure with a key lock and provide full functionality of the system.

The panel is pre-programmed from the factory for monitoring a typical wet or dry fire sprinkler system. The programming may be changed using the Potter Fire Panel Programmer (available free from www.pottersignal.com) and a standard Ethernet cable. The default program is as follows:

- Input 1 - Waterflow
- Input 2 - Smoke Detection (two-wire)
- Input 3 - Manual Pull Station
- Input 4 - Non-Latching Supervisory
- Input 5 - Valve Tamper
- Input 6 - Valve Tamper



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Series PM6600 & PM6700 Manual Non-Code Keyed Stations

Date: 02/10/15

Features

- MM101 Key Switch Cover
- Sturdy Metal Construction
- Enclosed Switch with Optional Glass Rod
- 10 Amp @ 120Vac, 5 Amp @ 24Vdc Switch Contact Rating
- Stations Available are: Single Action, Dual Action, Pre-Signal / General Alarm, Institutional, Weatherproof, and Explosion Proof
- UL, CSFM Listed & MEA approved
- Made in USA

Description

The PM6600/6700 series meets the requirements of the keyed reset station in every way. By using the standard Faraday MM101 series key, the user eliminates the need to search through many different reset keys. All stations are constructed of a solid die cast housing and come painted glossy red. The back switch plate is made of thick 14 Ga. plated steel and comes in a one gang size.

The electrical switch has a hefty 10 Amp @ 120 Vac normally open contact rating. All stations come with terminal block connections with the exception of the single action stations. These may be ordered with terminal blocks or pigtails (See ordering information for a more detailed description).

Explosion proof and weatherproof units come complete with their own back box. Optional PM6767 matching red surface interior back boxes are also available.

Operation

Alarm

To activate the manual station, a firm downward pull of the recessed pull lever is required. Such action locks the lever in the down position, breaks the glass rod, (if used) and actuates the switch creating an alarm condition.

Reset

To restore an operated manual station to normal standby condition requires the use of a standard Faraday MM101 key. The lock, located at the top of the station, is turned with an inserted MM101 key.

PM6608/
PM6700 (right) &
PM 6696 (below)



This lets the front of the station swing down and allows the recessed pull down lever to be reset in the normal up position. Replacement of the glass rod (if used) is not necessary to reset the station. However, spare glass rods can be stored inside the station. To lock the station swing the front of the station back up to its original position and turn the MM101 key in the previously operated position.

Engineering Specification

Furnish and install where located on the drawings Faraday non-code pull stations. The stations should be pull down operation type with operation instructions provided on the station in raised letters. The station should be of metal construction, finished in fire alarm red/white, and shall be capable of proper operation with or without a break glass rod. Stations using any plastic parts other than the switch body, or requiring the use of a break glass rod to maintain a standby condition shall not be acceptable.



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Upon operation the pull down lever shall lock into the alarm position and remain so until manually reset. A common Faraday MM101 key shall be required to gain access for resetting the station, testing the station or replacing the glass rod. Stations with test features that do not test the actual station actuating switch shall not be acceptable.

Stations shall contain one or more normally open alarm contacts. Wiring to the fire alarm system initiating circuit shall be via pressure type screw terminals or pigtail wires with in and out wiring required.

Specifications

Electrical

Contacts – All contacts except General Alarm: 10A @ 120 Vac, General Alarm: 5A @ 30 Vdc

Dimensions

4-3/4" (H) x 3-3/16" (W) x 7/8" (D)

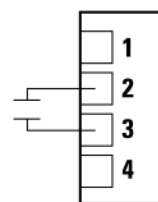
Weight

15-1/2 oz.

Mounting

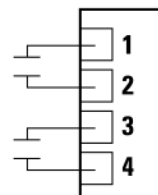
Single gang box

Wiring



(1) N.C.

Conta



(2) N.O.

Contacts

Ordering Information

Model	Description	Part No.
Single Action Stations		
PM6700	(RMS-1P-KL) Station, N.O., Pigtails	500-648504FA
PM6608	(RMS-1T-KL) Station, N.O., Terminals	500-648505FA
Dual Action Stations		
PM6696	(RMS-2T-LP-KL) Station, (2) N.O., Terminals	500-648507FA
Pre-Signal/General Alarm Stations		
PM6695	(RMS-1T-KS-KL) N.O. Pre-sig, N.O. Terminals	500-648265FA
Weatherproof Stations		
PM6699	(RMS-2T-WP-KL) (2) N.O. Terminals	500-648266FA
Accessories		
PM6698	(BB) Surface Back Box, Interior	500-648506FA
PM7601	Glass Rods (pack of 10)	500-648245FA
10531	(STI1130) Cover, surface mount w/horn	500-648563FA
10538	(STI1130) Cover, flush mount, w/ horn	500-648591FA
10539	(STI1200) Cover, flush mount, w/o horn	500-648253FA



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

WARNING -The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information, are provided with the product and are available from the Manufacturer. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact the Manufacturer.



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Approved with Conditions

Date: 02/10/15



NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES®

Providing Certification Programs Since 1961

BE IT KNOWN THAT

Richard W. Brobst, Jr

**IS HEREBY AWARDED CERTIFICATION AT
LEVEL IV**

**IN FIRE PROTECTION ENGINEERING TECHNOLOGY
FIRE ALARM SYSTEMS**

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

Certification Valid through October 1, 2017

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Deann Edgell

CHAIRMAN OF THE NICET BOARD OF GOVERNORS

A DIVISION OF THE NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS



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Zimbra**rich@protectionpro**

Re: 617 Forest**Date:** 02/10/15**From :** Craig Messinger <CRM@portlandmaine.gov>

Tue, Jan 13, 2015 02:36 PM

Subject : Re: 617 Forest**To :** Rich Brobst <rich@protectionprofessionals.net>**Cc :** David Petruccelli
<PETRUCCELLID@portlandmaine.gov>

Hi Rich,

Yes, we generally accept that application in a fully sprinkled building. I was also going to call you about a potential meeting that you wanted for Thursday, I will not be in Thursday and would like to reschedule.

Can you call 874-8400 when you get a moment and we'll try to schedule something?

Thanks Craig

380 Congress st
Portland Maine 04101
874-8400

>>> Rich Brobst <rich@protectionprofessionals.net> 1/13/2015 2:28 PM >>>
Hello:

I have been asked to provide a fire alarm system at 617 Forest Avenue. It is a fully sprinkled two story building with two retail spaces and five apartments. I feel that we will only need to provide a sprinkler monitoring system with one pull station and one horn/strobe. Do you agree?

FYI; permit number is 2014-00614.

I appreciate your input.

Thank you for your time;

*Rich Brobst, Jr
NICET IV
Master Electrician
Protection Professionals
325 US Route One
Falmouth, Maine 04105*



Fire Alarm Permit Application Checklist

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All of the following information is required and must be submitted. Checking off each item as you prepare your application package will ensure your package is complete and will help to expedite the permitting process. Date: 02/10/15

Complete and submit the following

- Design complies with City Code Ch. 10 and Fire Department Regulations Ch 5: _____
- Life Safety Code Occupancy Classification: Business
- A formal code analysis may be required depending on the complexity of the property: _____
- Is the top occupiable floor of the building greater than 75 ft. above the lowest level of fire department access (high-rise)? NO
- Is this new work or a renovation to an existing system? New
- Name of company providing programming and certification of system Protection Professionals
(see <http://www.portlandmaine.gov/fireprevention/firealarmcompanies.asp> for approved companies):
- Vectored pdf plans and documents included
- Accurate scalable floor plan(s)
- Reflected ceiling or electrical plans are not acceptable. The plans shall be represent only the fire alarm system
- Each plan shall have a graphic scale
- Each plan shall have a 3 in. x 3 in. space reserved in the top right hand corner for city approval stamp
- Each plan shall have FA and a sheet number and a descriptive title on it
- Each sheet shall be saved as a separate file and named the sheet number and title (ex. FA-01 First Floor, FA-04 Wiring Diagram, etc.)
- In order to review revisions to previously submitted plans, each revision shall have the same file name as the previous version
- Each document shall be a separate file with a descriptive file name
- An example of one document and file is a four page data sheet for one smoke detector
- Designer qualifications (copy of NICET IV certificate or stamped plans and documents)
- Scope of work
- Wiring diagram(s)
- Annunciator details
- Operations matrix



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- Battery and voltage calculations
- Equipment data sheets
- A city electrical permit has been pulled

Date: 02/10/15

Master Box Approval (complete all items for approval)

- Is this check list applicable?
- Will a master box be installed? NO
- AES approved installing contractor? _____
- Documentation of AES approval: _____
- Property Owner? _____
- Property Owner Billing Address? _____
- Property common name: _____
- E-911 Address for protected premises: _____
- Life Safety Code Occupancy Classification: _____
- Emergency contact name: _____
- Emergency contact phone: (____) _____ - _____
- Additional emergency contact phone: (____) _____ - _____
- Number of stories protected? _____
- Number of square feet of structure protected? _____
- Is the building protected by a supervised, automatic sprinkler system? _____

* See Applicant Submittal Requirements for Electronic Plan Review.

Separate permits are required for internal and external plumbing, & electrical installations.

For questions on Fire Department requirements call the Fire Prevention Officer at (207) 874-8405. Please submit all of the information outlined in this application checklist. If the application is incomplete, the application may be refused.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

This is not a Permit; you may not commence any work until the Permit is issued.



Fire Alarm Permit Application

2014-



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

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Address/Location of Construction: <u>671 Forest Ave.</u>		Date: <u>02/10/15</u>
Total Square Footage of Proposed Structure: <u>existing.</u>		
Tax Assessor's Chart, Block & Lot Chart# Block# Lot#	Applicant Name: <u>Shannon Hulit</u> Address <u>6 Day Rd.</u> <u>Gorham, Maine.</u> City, State & Zip <u>04038</u>	Telephone: <u>207-615-4034</u> Email: <u>notheastelectric@gmail.com</u>
Lessee/Owner Name: (if different than applicant) <u>Ashraf E.</u> Address: <u>of United-USA, LLC</u> City, State & Zip: <u>Portland, Me. 0410</u> Telephone & E-mail: <u>272-0227</u>	Contractor Name: (if different from Applicant) Address: City, State & Zip: Telephone & E-mail:	Cost Of Work: <u>\$ 2000.00</u> Fees: first \$1000 = \$25 fee + \$11 for every other \$1,000 of Cost of work Total Fees : \$ <u>36</u>
Current use (i.e. single family) <u>Retail space and 5 Dwelling units</u> If vacant, what was the previous use? <u>N/A</u> Proposed Specific use: _____ Is property part of a subdivision? ___ If yes, please name _____ Project description: <u>Install Sprinkler monitoring Fire Alarm System only.</u>		
Who should we contact when the permit is ready: <u>Shannon K. Hulit</u>		
Address: <u>Same as Above.</u>		
City, State & Zip: _____		
E-mail Address: _____		
Telephone: _____		

Please submit all of the information outlined on the applicable checklist. Failure to do so causes an automatic permit denial.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

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

Signature: <u>Shannon K. Hulit</u>	Date: <u>Feb. 3, 2015</u>
------------------------------------	---------------------------

This is not a permit; you may not commence ANY work until the permit is issued.



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Strengthening a Remarkable City, Building a Community for Life · Date: 02/10/15

Jeff Levine, AICP, Director
Director of Planning and Urban Development

Tammy Munson
Director, Inspections Division

Electronic Signature and Fee Payment Confirmation

Notice: Your electronic signature is considered a legal signature per state law.

By digitally signing the attached document(s), you are signifying your understanding this is a legal document and your electronic signature is considered a **legal signature** per Maine state law. You are also signifying your intent on paying your fees by the opportunities below.

I, the undersigned, intend and acknowledge that no permit application can be reviewed until payment of appropriate permit fees are **paid in full** to the Inspections Office, City of Portland Maine by method noted below:

Within 24-48 hours, upon receipt of an e-mailed invoice from Building Inspections, which signifies that my electronic permit application and corresponding paperwork have been received, determined complete, entered by an administrative representative, and assigned a permit number, I then have the following four (4) payment options:

- to provide an on-line electronic check or credit/debit card (we now accept American Express, Discover, VISA, and MasterCard) payment (along with applicable fees beginning July 1, 2014),
- call the Inspections Office at (207) 874-8703 and speak to an administrative representative to provide a credit/debit card payment over the phone,
- hand-deliver a payment method to the Inspections Office, Room 315, Portland City Hall,
- or deliver a payment method through the U.S. Postal Service, at the following address:

City of Portland
Inspections Division
389 Congress Street, Room 315
Portland, Maine 04101

Once my payment has been received, this then starts the review process of my permit. **After all approvals have been met and completed, I will then be issued my permit via e-mail.** No work shall be started until I have received my permit.

Applicant Signature: Shannon K. Hub

Date: Feb 3, 2015

I have provided digital copies and sent them on: Feb 3, 2015

Date: _____

NOTE: All electronic paperwork must be delivered to buildinginspections@portlandmaine.gov or by physical means ie; a thumb drive or CD to the office.

Room 315 - 389 Congress Street- Portland, Maine 04101 (207) 874-8703 - Fax: 874-8716 - TTY: 874-8936