

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND

# BUILDING PERMIT

This is to certify that MAINE STATE SECURITY  
of 1308 New County Rd, Dayton, Maine 04005

For installation at 274 PARK AVE  
6-unit Multifamily

Job ID: 2011-11-2765-UI

CBL: 065- E-002-001

has permission to install sprinkler supervisory system

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes 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

Bj. Oswald  
Fire Prevention Officer

(58)

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](mailto: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](http://www.portlandmaine.gov)

Director of Planning and Urban Development  
Penny St. Louis

Job ID: 2011-11-2765-UI  
install sprinkler supervisory system

For installation at:  
274 PARK AVE  
6-unit Multifamily

CBL: 065- E-002-001

## Conditions of Approval:

### **Fire**

A sprinkler supervisory system shall be provided in accordance with NFPA 101, *Life Safety Code*, and NFPA 72, *National Fire Alarm and Signaling Code*. Sprinkler supervisory system shall monitor for water flow and sprinkler supervisory signals via an approved fire alarm panel to central station. One smoke detector shall be located over the FACP, a manual pull station located at the front door, and an audible water flow alarm provided. The FACP shall be located at the front door unless otherwise approved by the Fire Prevention Bureau.

Installation 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.

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. 4100 series Knox Box or hinged 3200 series if the building is master keyed.

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

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

Fire Alarm system shall be maintained. If system is to be off line over 4 hours a fire watch shall be in place. Dispatch notification required 874-8576.

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

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

Job No: 2011-11-2765-UI <i>2011-3676 FAFS</i>	Date Applied: 11/30/2011	CBL: 065- E-002-001	
Location of Construction: 274 PARK AVE	Owner Name: GALPAGOS LLC	Owner Address: 68 WOLCOTT ST, PORTLAND, ME 04102	Phone:
Business Name:	Contractor Name: Tony Christensen - ME State Security	Contractor Address: PO Box 15233 PORTLAND MAINE 04112	Phone: (207) 247-4371
Lessee/Buyer's Name:	Phone:	Permit Type: FAFS	Zone: R-6
Past Use: <b>Six residential dwelling units</b>	Proposed Use: <b>Same: Six residential dwelling units - to install fire alarm</b>	Cost of Work:	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved <i>w/conditions</i> <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: Type:
		Signature: <i>[Signature]</i> (58)	Signature:
Proposed Project Description: 6 unit Res - int. Repairs /fire UI#101483 & 101286		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Lannie		<b>Zoning Approval</b>	

<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building Permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.</p>	<b>Special Zone or Reviews</b> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan  <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: <i>OK</i> <i>12/6/11</i>	<b>Zoning Appeal</b> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied  Date:	<b>Historic Preservation</b> <input checked="" type="checkbox"/> Not in Dist or Landmark <input type="checkbox"/> Does not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied  Date: <i>[Signature]</i>
	<b>CERTIFICATION</b>		

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

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE





Child  
2011 3676

# Fire Alarm Permit

E-6  
to Res. D4

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: 274 PARK AVE. CBL: 65-E-2

Exact location: (within structure) FRONT main-Entry

Type of occupancy(s) (NFPA & ICC): New 6 unit Apartment

Building owner: \_\_\_\_\_

Must be

System Designer (point of contact): Same as below

Designer phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Installing contractor: Maine State Security Certificate of Fitness No: 1002

Contractor phone: 207-247-4371 E-mail: info@MaineStateSecurity.com

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

Amendment to an existing permit: YES  NO  Permit no: \_\_\_\_\_

The following documents shall be provided with this application:

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

COST OF WORK: \$2000

PERMIT FEE: 40  
(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)

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

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

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

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

Applicant signature: Chris E JLP Date: 12-5-11

11.9.11

# ELECTRICAL PERMIT

## City of Portland, Me.



To the Chief Electrical Inspector, Portland Maine:  
 The undersigned hereby applies for a permit to make electrical installations  
 in accordance with the laws of Maine, the City of Portland Electrical Ordinance,  
 National Electrical Code and the following specifications:

Date \_\_\_\_\_  
 Permit # \_\_\_\_\_  
 CBL# 65-E-2

LOCATION: 274 PAIK AVE. METER MAKE & # \_\_\_\_\_  
 CMP ACCOUNT # \_\_\_\_\_ OWNER Tony - Viking Restorations  
 TENANT Unknown PHONE # 207-828-2900

**TOTAL EACH FEE**

OUTLETS	Receptacles	Switches	Smoke Detector	TOTAL EACH FEE	
				.20	
FIXTURES	Incandescent	Fluorescent	Strips	.20	
SERVICES	Overhead	Underground	TTL AMPS <800	15.00	
	Overhead	Underground	TTL AMPS >800	25.00	
Temporary Service	Overhead	Underground	TTL AMPS	25.00	
METERS	(number of)			1.00	
MOTORS	(number of)			2.00	
RESID/COM	Electric units			1.00	
HEATING	oil/gas units	Interior	Exterior	5.00	
APPLIANCES	Ranges	Cook Tops	Wall Ovens	2.00	
	Insta-Hot	Water heaters	Fans	2.00	
	Dryers	Disposals	Dishwasher	2.00	
	Compactors	Spa	Washing Machine	2.00	
	Others (denote)			2.00	
	MISC. (number of)	Air Cond/win			3.00
		Air Cond/cent		Pools	10.00
HVAC		EMS	Thermostat	5.00	
Signs				10.00	
Alarms/res				5.00	
Alarms/com				15.00	
Heavy Duty(CRKT)				2.00	
Circus/Carnv			25.00		
Alterations			5.00		
Fire Repairs			15.00		
E Lights			1.00		
E Generators			20.00		
PANELS	Service	Remote	Main	4.00	
TRANSFORMER	0-25 Kva			5.00	
	25-200 Kva			8.00	
	Over 200 Kva			10.00	
			TOTAL AMOUNT DUE		
MINIMUM FEE/COMMERCIAL 55.00			MINIMUM FEE	45.00	

CONTRACTORS NAME Chris L'Heureux MASTER LIC. # \_\_\_\_\_  
 ADDRESS 98 Company Road Duxbury Me 04545 LIMITED LIC. # LM50017202  
 TELEPHONE 207-243-4371

SIGNATURE OF CONTRACTOR Chris L'Heureux

# Maine State Security Services

*A Division of L'Heureux Inc.*

1308 New County RD Dayton, ME 04005  
Tel: 207-247-4371  
Fax: 207-929-8484  
Email: info@mainestatesecurity.com

December 5, 2011

Portland Fire Prevention  
Lt. Ben Wallace  
380 Congress Street  
Portland, Me 04101

Re: 274 Park Ave

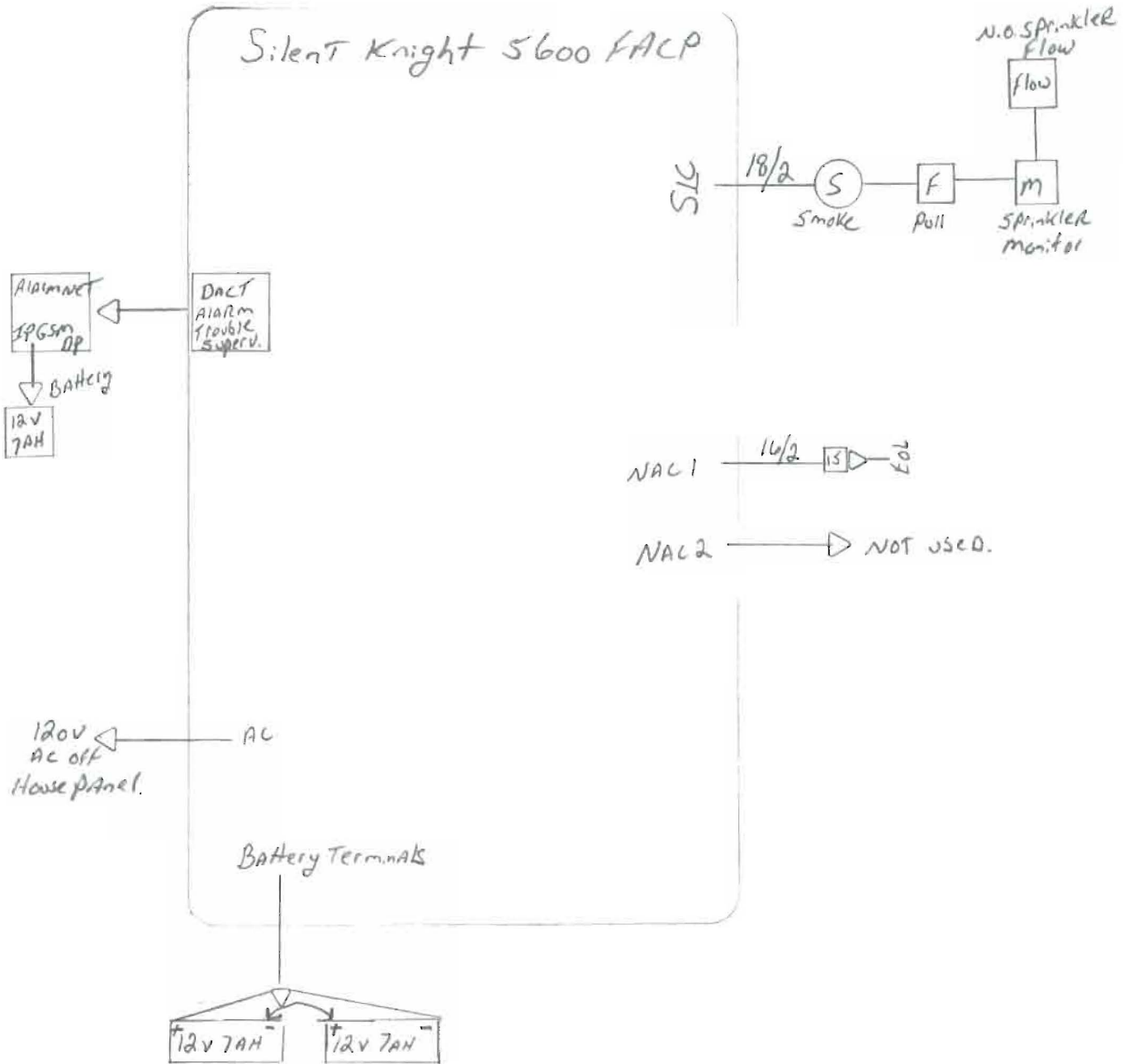
Scope of work: We intend to install a Fire Alarm System for the buildings automatic extinguishing system per NFPA101 for existing (new renovation) Apartment buildings with 6 units and 2 stories. The system will be all hard wired devices all UL listed for commercial fire. There will be a pull station at the main entry for use when the sprinkler system is down, Communication to the UL listed Central Station will be accomplished by using the Alarm net GSM Radio that is listed as a sole communication device for commercial fire.

Please feel free to give me a call after reviewing the submittals if you have any questions.

Sincerely,

Chris L'Heureux  
President.

274 PARK AVE.







5600 Calculations  
Version 02.17.10

Global Project Values:

Project Name:  Standby Hours:   
 Project ID:  Alarm Mins:   
 Prepared By:  Derating Factor:   
 Date:  Voltage Drop Warning Threshold %:

Panel ID:   
 Location:

Model: 5600 Add. Fire Alarm Control Panel  
 Volts: 24 VDC

Max NAC Current: 2 Amps  
 Max Panel Current: 2 Amps

Ckt.#	Circuit Name	Qty	Current Draw		Wire AWG & Type	Ohms Per 1000 Ft.	Length(ft) One-Way	Actual Ohms	Volts @ EOL	%Drop
			Standby	Alarm						
5600	5600 CTRL Panel	1	0.135	0.220	N/A					
	Addr. Photo Smoke Det	1	0.000	0.000						
HFS-PT	Addr. Photo Smoke w/Thermal		0.000	0.000						
HFS-D	Addr. Duct Detector		0.000	0.000						
HFS-T	Addr. Heat Detector		0.000	0.000						
HFS-MM	Addr. Mini Input Module	1	0.000	0.000						
HFS-MR	Addr. Relay Module		0.000	0.000						
SK-Pull-SA/DA	Addr. Manual Pull Station	1	0.000	0.000						
NAC #1*	Notification Appl Circuit		0.000	0.091	#16 Solid	4.02	10	0.08	20.39	0.04%
NAC #2*	Notification Appl Circuit		0.000	0.000	#12 Solid	1.59		0.00	20.40	0.00%
Total Standby Current (Amps)			0.136	0.312	Total Alarm Current (Amps)					
Standby Time In Hours			24	0.083	Alarm Time In Minutes / 60			(5 Mins)		
Total Standby AH Required			3.264	0.026	Total Alarm AH Required					
Total Combined AH Required			3.29		Command Shortcuts					
Multiply By The Derating Factor			1.20		Configure Circuits			Print Page		
Minimum Battery AmpHours Required			3.95							



# Circuit Configuration

## Project Information

**Project Name:** 274 Park Ave

**Project ID:** 614

**Prepared By:** C L'Heureux

**Date:** 12/5/2011

Ckt. Number: NAC #1\*

Panel ID: 5600

Ckt. Name: Notification Appl Circuit

Use: Aux Power Circuit

Qty	Device	Current Draw Each		Current Draw Total	
		Standby	Alarm	Standby	Alarm
1	System Sensor P2/PC2 Horn/Strobe (15cd)	0.000	0.091	0.000	0.091
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
				0.000	0.000
<b>Totals</b>				0.000	0.091

Ckt. Number: NAC #2\*

Panel ID: 5600

Ckt. Name: Notification Appl Circuit

Use: Aux Power Circuit

Qty	Device	Current Draw Each		Current Draw Total	
		Standby	Alarm	Standby	Alarm
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
				0.000	0.000
<b>Totals</b>				0.000	0.000

# Sequence of Operations

		497 Cumberland Ave Portland, Maine
Manual Pull Stations		X
Smoke detectors common area		X
Water Flow Monitor		X
FACP/annunciator silence button		X
FACP/annunciator acknowledge button		X
FACP/annunciator reset button		X
Removal of any device		X
Ground fault		X
System wiring "open"		X
AC Power loss		X
Secondary power loss		X
Telephone line loss		X
		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
		Event acknowledgement
		Reset of all system functions and all visual devices
	A	Remote transmission to Central Station A=alarm; T=trouble; S=Supervisory; L = log only
	A	Remote indicator
	A	
	A	
	L	
	L	
	L	
	L	
	T	
	T	
	T	
	T	
	T	
	T	



**SILENT  
KNIGHT**

by Honeywell

## IntelliKnight 5600 25-Point Hybrid Conventional Fire Alarm Control Panel

**Step up to Addressable Fire Alarm Systems with the  
affordable IntelliKnight 5600 from Silent Knight**

The IntelliKnight 5600 is a 25 point, class leading, single loop addressable fire alarm control/communicator system. IntelliKnight 5600 provides you with the revolutionary value and performance of addressable sensing technology combined with exclusive, built-in digital communication that includes an easy to use interface. With code wheel addressable detectors/modules and JumpStart™ feature the 5600 can be Life Safety operational without a single programming tool. Powerful features such as drift compensation and maintenance alert are delivered in this powerful FACP from Silent Knight.

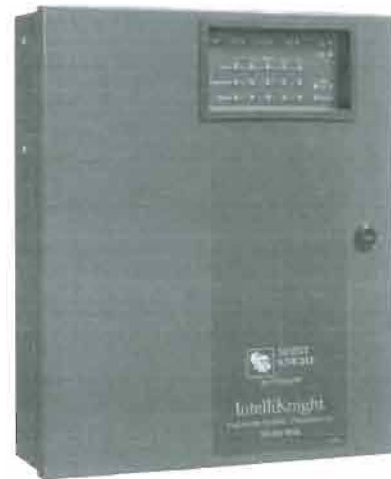
For more information about the IntelliKnight 5600 system, or to locate your nearest source, please call 800-328-0103.

### Description

The IntelliKnight 5600 is a 25 point, single loop, addressable fire alarm control/communicator system. The 5600 supports Honeywell Fire Systems (HFS) or equivalent SK detectors and modules. The 5600 also features a powerful built-in dual line fire communicator that allows for reporting of all system activity to a remote monitoring location.

### Features

- Support for any combination of up to 25 Honeywell Fire Systems (HFS) or equivalent SK protocol detectors and modules (Version 2.0 or higher).
- SBUS support for two 5635 Remote Annunciators (Version 2.0 or higher).
- Built-in digital communicator.
- Code wheel detectors and modules for faster installation time.
- IP communicator compatible.
- Maintenance alert region.
- Point status meets calibrated smoke test requirements for NFPA 72.
- Auto learn "JumpStart™" feature for easy programming.
- Custom programming can be performed through FACP built-in browser. No programming software required.
- Uses standard wire – no shielded or twisted pair required.
- Central Station reporting up to five zones.
- Built-in synchronization for System Sensor®, AMSECO, Gentex®, or Wheelock®.
- Two Style Y (Class B) notification appliance circuits (NAC).



Model 5600

### Installation

The 5600 is a surface mount FACP

### Compatibility

The 5600 SLC supports Honeywell Fire Systems (HFS) or equivalent SK protocol detectors and modules in any combination. (Version 2.0 or higher).

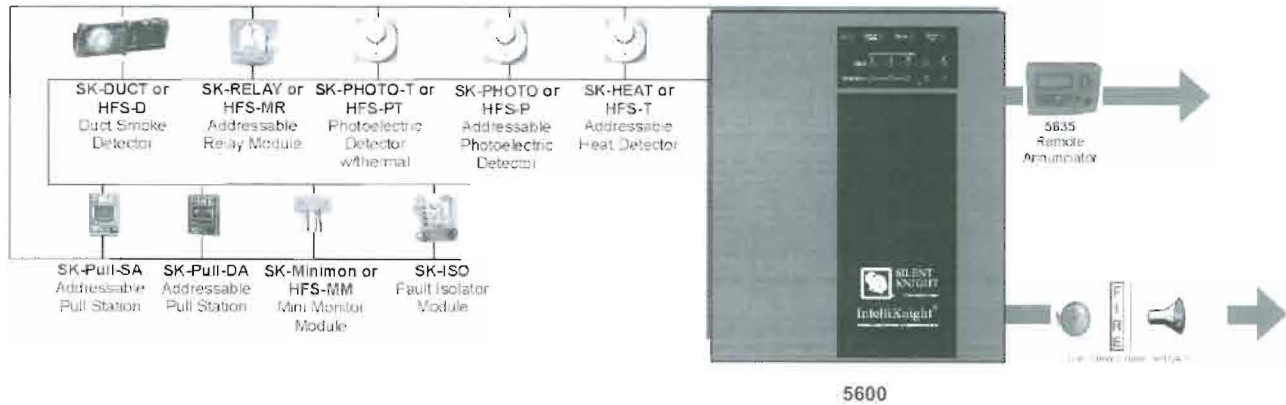
### Specifications

#### Electrical

Primary AC: 120 Vrms @ 60 Hz, 1.5A  
 5600HV Primary AC:  
 230 Vrms @ 50/60, 75A Hz  
 Total Accessory Load: 2.0A @ 24 VDC  
 Notification Power:  
 2.0A @ 24 VDC, power-limited  
 Standby Current: 135 mA  
 Alarm Current: 220 mA



# Model 5600 Fire Alarm Control Panel



Aux Power Circuits: 1.0A @ 24 VDC per circuit, power-limited

Battery Charging Capacity:  
7.0 – 33 AH or 18 AH for ULC  
Installations

Battery Size: 7 AH max. allowed in FACP cabinet. Larger capacity batteries can be housed in an RBB accessory cabinet.

### Physical

Dimensions:  
12.75" W x 15.2" H x 3.4" D  
(32.39 W x 38.42 H x 8.57 D cm)  
Weight: 11.5 lbs. (5.2 kg)

Color: Red

Telephone Requirements:  
FCC Part 15 and Part 68 approved  
Type of Jack: RJ31X (two required)

### Approvals

NFPA 13, NFPA 15, NFPA 16, NFPA 70, & NFPA 72: Central Station; Remote Signalling; Local Protective Signalling Systems; Auxiliary Protected Premises Unit. Suitable for automatic, manual, waterflow, sprinkler supervisory (DACT non-coded) signalling services.

Other Approvals: UL Listed; ULC; ETL CSFM; MEA.

### Miscellaneous Accessories

**SK-IP-2**  
IP Fire Alarm Communicator

**RBB**  
Remote Battery Box Accessory Cabinet. Use if backup batteries are too large to fit into FACP cabinet.  
Dimensions:  
16" W x 10" H x 6" D  
(406 mm W x 254 mm H x 152 mm D)

### Ordering Information

5600 120 VAC FACP  
5600HV 230 VAC FACP

5365R Red 80 character LCD Remote Annunciator

5635W White 80 character LCD Remote Annunciator

### Honeywell Fire Systems Devices

HFS-P - Photoelectric smoke detector

HFS-PT - Photoelectric smoke detector with thermal

HFS-D - Photoelectric duct smoke detector

HFS-T - Fixed temperature thermal detector

HFS-MM - Mini monitor Module

HFS-MR - Addressable relay module

### SK Detectors and Modules

SK-Photo - Photoelectric smoke detector

SK-Photo-T - Photoelectric smoke detector with thermal

SK-Duct - Photoelectric duct smoke detector

SK-Heat - Addressable fixed temperature thermal detector

SK-Minimon - Mini monitor module

SK-Pull-SA - Addressable single action pull station

SK-Pull-DA - Addressable dual action pull station

SK-ISO - Fault Isolator Module



This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact Silent Knight 12 Clintonville Road, Northford, CT 06472-1610 Phone: (800) 328-0103 or (203) 484-7161, Fax: (203) 484-7118 [www.silentknight.com](http://www.silentknight.com)

**MADE IN AMERICA**

P/N 350137 Rev B2

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## IPGSM-DP

### IP Internet & Digital Cellular Dual Path Fire Alarm Communicator

#### General

The IPGSM-DP is a compact fire alarm communicator panel with selectable configurable paths: Cellular Only, IP Only, or IP Primary/Cellular Backup. It connects to the primary and secondary communication ports of the Fire Alarm Control Panel's DACT. In the event of an off-normal condition, the panel sends contact ID formatted information to the IPGSM-DP communicator panel. The IPGSM-DP then reformats the data into highly encrypted Ethernet packets for transmission to the AlarmNet receiver via customer-provided internet/intranet connection or GSM (Global System for Mobile) network.

Alternative communication methods are critical in the marketplace due to VoIP (Voice over IP), migration from POTS (Plain Old Telephone Service) and growth of digital radio networks. The IPGSM-DP delivers secure, reliable and complementary Internet and digital communications via the GSM (Global System for Mobile) network. Our exclusive, Dual-Path Communications solution combines internet service with GSM for added reliability and an extra level of security. The GSM radio technology is unique in that it uses GPRS service (General Packet Radio Service) for data and alarm communications. Through the Internet or GSM radio, the IPGSM-DP offers contact ID reporting with any Fire Alarm Control Panels.

All signals from the IPGSM-DP communicator panel are delivered to Honeywell's AlarmNet Network Control Center, which routes the information to the appropriate central station. The state of the art AlarmNet Network Control Center is fully redundant and monitored 24/7. AlarmNet has the ability to route messages using AlarmNet-i and 800 PLUS services, providing true redundancy and multi-path message delivery.

#### Features

- Saves the cost of two dedicated phone lines.
- Dual path communications: Uses Internet or GSM (cellular) as primary.
- Requires no change to the existing Fire Alarm Control Panel configuration. The IPGSM-DP connects directly to the primary and secondary telephone ports.
- Works over any type of customer provided Ethernet 10/100 Base network connection (LAN or WAN), DSL modem or cable modem.
- Data transmits over standard contact-ID protocol but is secured with the industry's advanced encryption standard (AES 256 bit).
- Supports both dynamic (DHCP) or Public and Private Static IP addressing.
- Built-In Power Supply module: On board charging circuit design accommodates back-up battery. Includes primary power and battery supervision.
- Diagnostic LEDs: Signal strength and status indications.
- Reliable connection: IP and GSM tested every day.
- QOS: Quality of Service diagnostics via AlarmNet supply vital information including when message was received, battery voltage, input voltage, signal strength, and message path.
- Web-Based Programming or hand held programmer for setup.

#### Operation

When an event occurs, the Fire Alarm Control Panel goes off hook to dial the central station. The IPGSM-DP Dialer Capture



Module detects the off-hook condition and provides the fire panel with a dial tone. When the fire panel detects the dial tone, it begins dialing the central station. The Dialer Capture Module considers the three second period after dialing as the number dialing has been completed. After the dialing is completed, the Dialer Capture Module returns a handshake to the fire panel. The fire panel then sends the contact ID reports to the Dialer Capture Module, which in turn sends a kiss-off after the report is successfully received from the fire panel. The Dialer Capture Module sends the contact ID reports to the iGSM communications module. When all the reports are sent, the fire panel goes on-hook. The iGSM communications module then transmits the messages to the central station either over the GSM network or internet (primary).

#### Easy to Program

There are two ways to configure the IPGSM-DP communicator panel:

1. Handheld programmer 7720P
2. Web-Based Programming - Allows complete interactive programming from AlarmNet Direct.

<https://services.alarmnet.com/AlarmNetDirect>

The IPGSM-DP Communicator can be pre-programmed. Use the 7720P programmer or the Web-Based Program to enter all central-station information. This is saved to the IPGSM-DP communicator panel memory. When the IPGSM-DP Communicator is installed at the site and connected to the Internet/ Intranet, it registers itself with the AlarmNet receiver. This eliminates the need for a PC at the remote site for programming.

For most installations, the only required parameters are:

- Primary City ID (two digits) obtained from your monitoring station.
- Primary Central Station ID (two digits) obtained from your monitoring station.
- Primary Subscriber ID (four digits) obtained from your monitoring station.
- Communication Module's MAC ID, and MAC CRC number located on outside of box, and inside of the module.

All of these parameters are assigned by the monitoring station.

See *IPGSM-DP Installation and Setup Guide* for full details.



**NOTE:** Some assembly is required.

## Panel Capabilities

The IPGSM-DP communicator panel is compatible with fire panels that use the Contact ID communications format as described in the SIA DC-05 standard.

## AlarmNet

Honeywell's AlarmNet has been the nationwide leader in alarm communications technology since 1986. A reliable alternative for the transmission of alarm signals, our radio network provides extensive coverage in the United States and Canada. AlarmNet Network Control center processes signals from powerful servers in multiple locations equipped with 24/7 infrastructure support. The AlarmNet network consist of redundant hardware servers, hot back-up databases and generators with battery back-up at all locations to ensure continuity of service. Signals from AlarmNet are transmitted to the central station's receivers using multiple communications paths consisting of the Internet, radio network or toll-free POTS service.

## Installation Requirements

### UL COMPLIANCE

To meet UL864/NFPA, ensure the following:

- IPGSM-DP must be installed in accordance with NFPA (National Fire Protection Association) standards 70 and 72.
- IPGSM-DP must be mounted in the same room and within 20 feet of the fire panel. The wiring must be routed through conduit.
- IPGSM-DP and all equipment used for the IP connection (such as the router, hub, modem, etc.) shall be listed, must be powered from an un-switched branch circuit, and be provided with appropriate standby power.
- IPGSM-DP must use the 7AH battery (not supplied) to provide 24-hour backup capability.

## Electrical Specifications

- Transformer
  - Primary: 120 VAC, 60 Hz, 0.50 A.
  - Secondary: 18VDC, 50 VA.
- Current Requirements:
  - PowerBoost1 power supply: 90mA Standby, 90 mA Active
  - iGSM Communications Module: 80mA Standby, 500mA Active (peak during transmission)
  - Dialer Capture Module: 40mA Standby, 85mA Active
  - LED Display board: 10mA Standby, 10mA Active
  - TOTAL: 220mA Standby, 685mA Active

- Battery: One 12 V 7.0 AH lead-acid battery (not supplied). (IPGSM-DP cabinet holds one 7.0 AH battery.)

## Cabinet Specifications

**Dimensions:** 14.875" H x 12.75" W x 3.0" D (37.8 cm H x 32.4 cm W x 7.6 cm D)

**Color:** Red

## Shipping Specifications

**Weight:** 5.3 lbs. (6.94 kg)

**Dimensions:** 15.625" H x 13.79" W x 9.25" D (39.7 cm H x 34.9 cm W x 23.9 cm D)

## Temperature and Humidity Ranges

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (non condensing at 32°C ± 2°C (90°F ± 3°F)). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

## Product Line Information

**IPGSM-DP:** Internet and Digital Cellular Fire Alarm Communicator Panel. Includes red cabinet with key, wall outlet box, Dialer Capture Module, iGSM Communications Module, antenna and mounting adapter, PowerBoost1 power supply, LED display board, transformer, manual, and required screws, cables, etc.

**GSM-ANT3DB:** 3db gain external/remote antenna

**7626-50HC:** 50 ft. antenna cable, low loss

**7626-25HC:** 25 ft. antenna cable, low loss

**WA7626-CA:** SNA to N Adapter

**7720P:** IPGSM-DP handheld programmer

**HPTCOVER:** Plug in transformer box for IPGSM communicator

**BAT-1270:** Battery 12 Volts, 7 AH, sealed

## Agency Listings and Approvals

The listings and approvals below apply to the basic IPGSM-DP communicator panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL:** S789
- **CSFM:** 7300-1645:0183

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## Automation and Control Solutions

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Page 2 of 2



# Honeywell



## SK-Photo and SK-Photo-T



### Intelligent Photoelectric Smoke Sensors

The SK-Photo is a photoelectric smoke detector and the SK-Photo-T is a photoelectric smoke detector with thermal. These plug-in smoke detectors, with integral communication, provide features that surpass conventional detectors and are for use with Silent Knight IntelliKnight Fire Alarm Control Panels (FACPs).

For more information about the IntelliKnight system, or to locate your nearest source, please call 800-328-0103 or in Connecticut, call (203) 484-7161

#### Description

SK-Photo and SK-Photo-T are plug-in type smoke sensors that combine a photoelectric sensing chamber with addressable analog communications. Point ID capability allows each detector's address to be set with rotary address switches, providing exact detector locations for selective maintenance when chamber contamination reaches unacceptable levels.

SK-Photo and SK-Photo-T have a unique optical sensing chamber that is engineered to sense smoke produced by a wide range of combustion sources. In the SK-Photo-T, dual electronic thermistors add 135°F (57°C) thermal technology to maximize detection.

#### Features

- Sleek, low-profile design
- Base included
- Reliable analog communications for trouble-free operation
- Age resistant polymer housing
- Dual electronic thermistor design on the SK-Photo-T
- Superior EMI resistance for reliability
- Simple field cleaning for code compliance
- Variety of mounting options to meet any application
- Dual LED indicators for 360° visibility
- Detector transmits signal to indicate maintenance is required
- Optional remote LED annunciator (System Sensor® PN RA100Z)

- Plug-in mounting provides ease of installation
- Tamper-proof feature available on mounting bases
- Listed for use in duct applications
- Rotary address switches for fast installation
- UL Listed
- FM Approved

#### Specifications

##### Physical

Height: 2.0" (5.0 cm)  
Diameter: 4.1" (10.4 cm)  
Shipping Weight: 5.2 oz. (147 g)

##### Electrical

Operating Voltage: 15–32 VDC  
Standby Current:  
300 µA @ 24 VDC Maximum  
Alarm Current: 6.5 mA @ 24 VDC max  
(with LED on)

##### Environmental

Operating Temperature  
SK-Photo: 32° – 120°F (0°C – 49°C)  
SK-Photo-T: 32° – 100°F (0°C – 38°C)  
Humidity: 10% – 93% non-condensing

##### Other Ratings

SK-Photo-T Thermal: Fixed  
temperature set point 135°F (57°C)  
Velocity: 0 – 4000 fpm (0 – 20 m/sec)  
SK-Photo Insect Screen Hole Size:  
0.016" (0.41 mm) nominal



SK-Photo (Base included)

#### Compatibility

The SK-Photo and SK-Photo-T are compatible with the following IntelliKnight FACPs:

5700  
5808  
5820XL

SK-Photo and SK-Photo-T are compatible with the following detector bases:

B210LP	(included) 6" base
B501	2 wire base
B501BHT-2	Temporal base
B224RB	Relay base
B224B1	Isolator base
B501BH-2	Sounder base





# Model SK-Photo and SK-Photo-T Intelligent Photoelectric Smoke Sensors



## Engineering Specifications

The contractor shall furnish and install where indicated on the plans, intelligent photoelectric smoke sensors Silent Knight SK-Photo or SK-Photo-T with thermal. The combination detector head, and twist-lock base, shall be UL listed and compatible with Silent Knight's IntelliKnight fire control panels.

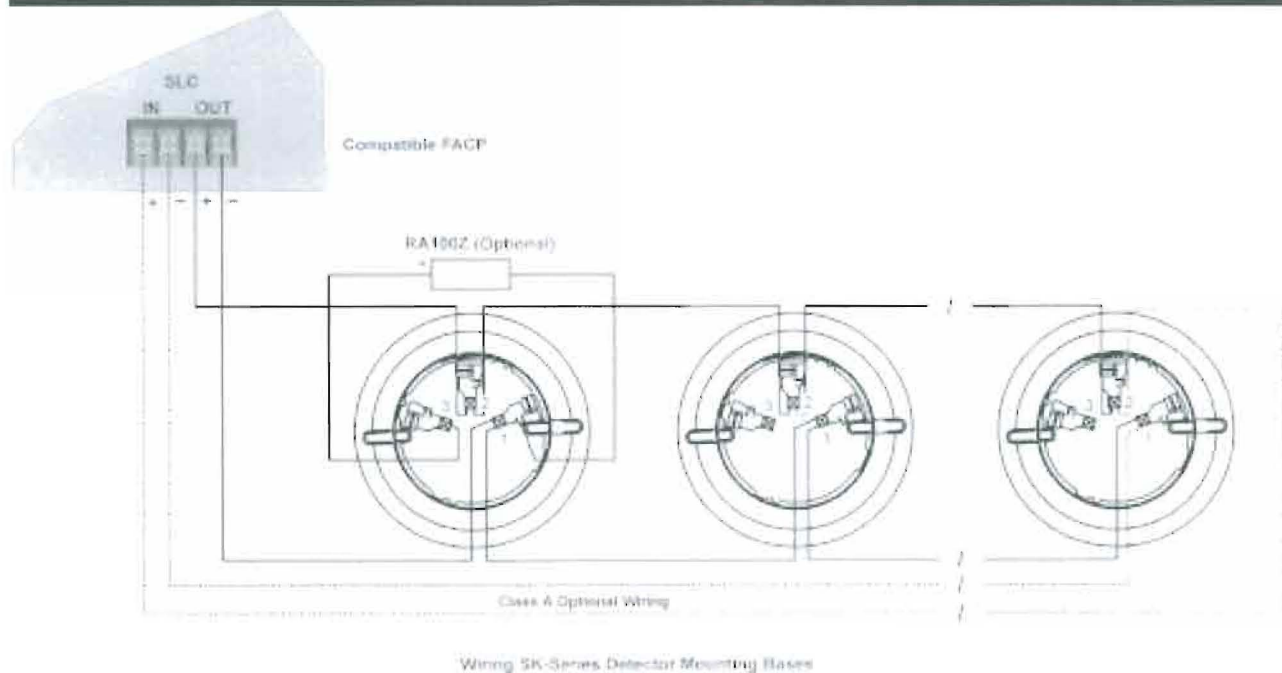
The base shall permit direct interchange with SK-Photo or SK-Photo-T Base shall be the appropriate twist-lock base part number B210LP (included).

The smoke detector shall have a flashing status LED for visual supervision. When the detector is actuated, the flashing LED will latch on steady. The detector may be reset by actuating the control panel reset switch.

The calibration of the detector shall be capable of being selected and measured by the control panel without the need for external test apparatus.

The vandal-resistant, security locking feature shall be used in those areas as indicated on the drawing. The locking feature shall be field selectable as required.

The SK-Photo shall automatically perform a functional test of the detector. The test method shall simulate effects of products of combustion in the chamber to ensure testing of detector circuits.



This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact Silent Knight 12 Clintonville Road, Northford, CT 06472-1610 Phone: (800) 328-0103, Fax: (203) 484-7118. [www.silentknight.com](http://www.silentknight.com)

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# SILENT KNIGHT

by Honeywell

## SK-Pull-SA and SK-Pull-DA

### Intelligent Pull Stations

The SK-Pull-SA and SK-Pull-DA are a single action or dual action addressable fire alarm pull station for use with Silent Knight's IntelliKnight fire control panel. Extremely easy to operate, the SK-Pull-DA and SK-Pull-SA provide a fast and practical means of manually initiating a fire alarm signal. The IntelliKnight panel recognizes each manual pull station by its specific address saving precious seconds in determining the location of an alarm.

For more information about the IntelliKnight system, or to locate your nearest source, please call 1-800-328-0103.

### Description

The SK-Pull-SA is a single action pull station requiring only one motion to activate the station. The SK-Pull-DA is a dual action pull station requiring two motions to activate the station. Both pull stations are designed to work with Silent Knight IntelliKnight series fire alarm control panels (FACPs).

### Features

- Installer can open station without causing an alarm condition
- Dual-color LED is visible through handle of station blinks green to indicate normal operation and remains steady red in an alarm condition
- Key operated test and reset lock using lock plate actuator
- Key matches compatible FACP locks
- Meets the Americans with Disabilities Act Accessibility Guidelines (ADAAG) controls and operating mechanisms guidelines (Section 4.1.3[13])
- Meets ADA requirement for 5 lbs maximum pull force to active
- Shell, door, and handle molded from durable LEXAN®
- Reliable analog communications for trouble-free operation
- Braille text on station handle
- Handle latches in down position and the word *Activated* appears, clearly indicating the station has been pulled
- Rotary address switches for fast installation
- UL Listed, including UL 38, Standard of Manually Actuated Signaling System



SK-Pull-SA



SK-Pull-DA

### Compatibility

The SK-Pull-SA and SK-Pull-DA are compatible with the following IntelliKnight FACP's:

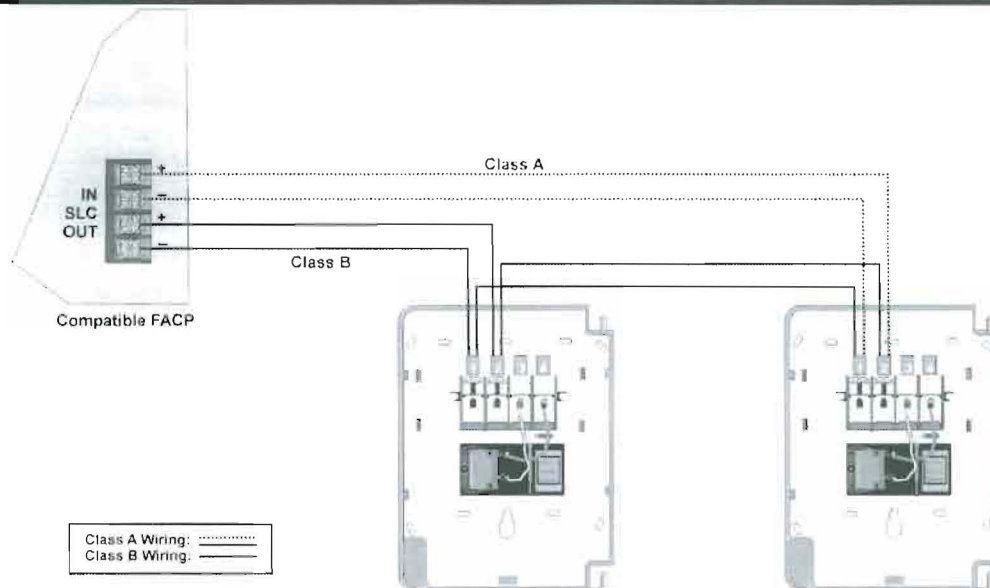
5600  
5700  
5808  
5820XL

# Model SK-Pull-DA and SK-Pull-SA

## Engineering Specifications

The contractor shall furnish and install where indicated on the plans, Addressable Pull Stations, Silent Knight model SK-Pull-SA single action pull station or SK-Pull-DA, dual action pull station.

SK-Pull-DA or SK-Pull-SA meet the ADAAG controls and operating mechanisms guidelines, and the ADA requirements for a 5 lb. maximum pull force to activate the pull station.



Wiring SK-Pull-SA & SK-Pull-DA Pull Stations

## Specifications

### Physical

Height: 5.5" (14 cm)

Width: 4" (10.2 cm)

Depth: 5.4 oz. (3.7 cm)

Housing Material: LEXAN polycarbonate resin

Bi-Colored LED:

Blinking Green: Normal

Steady Red: Alarm

Switch: Single pole, single throw (SPST) normally open (N/O) switch which closes upon activation of the pull station

### Electrical

Operating Voltage: 15–32 VDC

Average Operating Current (LED flashing): 300  $\mu$ A

Wire Gauge: Up to 12 AWG (3.1 mm<sup>2</sup>)

### Environmental

Operating Temperature 32° – 120°F (0°C – 49°C)

Humidity: 10% – 93% non-condensing

### Accessories

BG-TR Optional trim ring.

SB-I/O Surface backbox



by Honeywell

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**SILENT  
KNIGHT**

by Honeywell

**SK-Monitor**

**Intelligent Monitor Module**

The SK-Monitor module provides an interface to contact devices, such as security contacts, waterflow switches, or pull stations.

For more information about the IntelliKnight system, or to locate your nearest source, please call 1-800-328-0103.

### Description

The SK-Monitor is an addressable monitor module for use with Silent Knight IntelliKnight series fire alarm control panels (FACPs). The SK-Monitor is intended for use in intelligent, two-wire systems, where individual address of each module is selected using the built-in rotary switches.

The SK-Monitor supports Class A supervised or Class B supervised wiring to the load device. Conventional 4-wire smoke detectors can be monitored for alarm and trouble conditions.

### Features

- Single contact monitor
- Support for Class A and Class B wiring
- Fully supervised
- Panel controlled status LED that flashes green in normal state and is solid red in alarm
- Attractive ivory cover plate
- Rotary address switches for fast installation
- SEMS screws for easy wiring
- UL Listed

### Installation

The SK-Monitor mounts directly into a 4" square electrical box. The box must have a minimum depth of 2-1/8". A surface mount electrical box (System Sensor<sup>®</sup> PN SMB500) is available from Silent Knight.



**SK-Monitor**

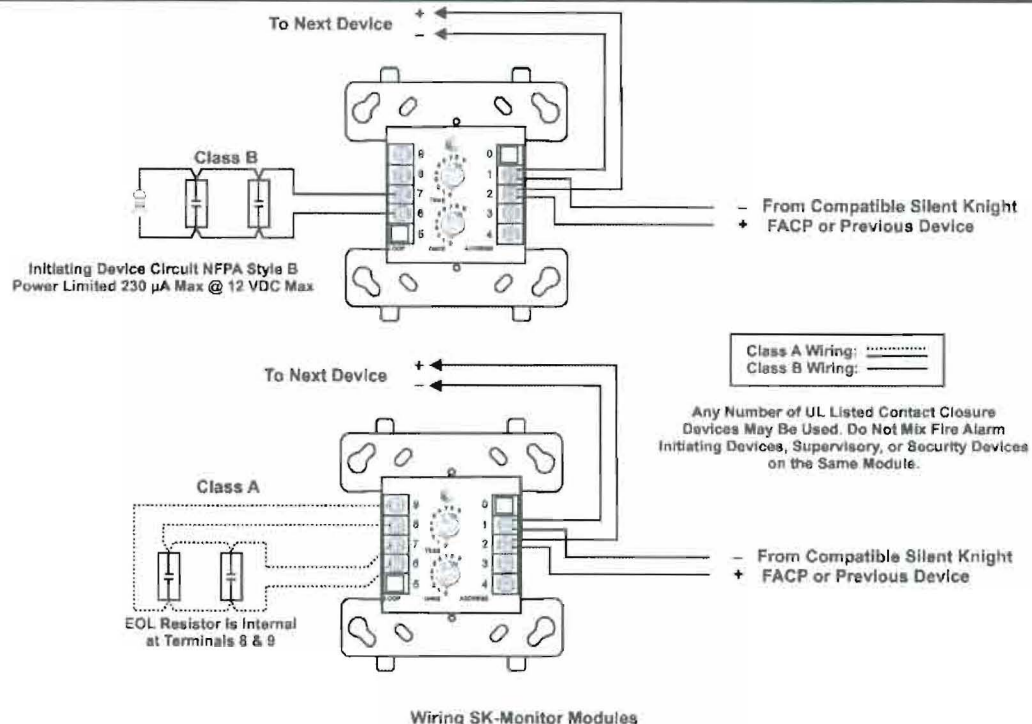
### Compatibility

The SK-Monitor is compatible with the following IntelliKnight FACP's:

5700  
5808  
5820XL



# Model SK-Monitor Intelligent Monitor Module



## Specifications

### Physical

Height: 4.5" (11.4 cm)  
 Width: 4" (10.2 cm)  
 Depth: 1.25" (3 cm)  
 Shipping Weight: 6.3 oz (196 g)

### Electrical

Operating Voltage: 15 – 32 VDC  
 Current Draw (LED on): 5.0 mA max  
 Operating Current (LED flashing): 375  $\mu$ A  
 Standby Current:

400  $\mu$ A max @ 24 VDC (one communication every 5 sec with 47K EOL)

550  $\mu$ A max @ 24 VDC (one communication every 5 sec with EOL <1K)

5.5 mA (with LED latched on)  
 LED Current: 5.5 mA (with LED latched on)  
 End-of-Line Resistance: 47K  $\Omega$   
 Initiating Device Circuit Wiring Resistance: 1,500  $\Omega$  max  
 SLC Loop Resistance: 40  $\Omega$  max.

### Environmental

Operating Temperature: 32°F – 120°F (0°C – 49°C)  
 Humidity: 10% – 93% non-condensing

## Ordering Information

SK-Monitor      Monitoring Module

## Accessories

SMB500      4" Square Surface Mount Electrical Box



by Honeywell

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FORM# 350131 Rev B2  
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## 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.*



**SPECTRAlert**  
ADVANCE  
from SYSTEM SENSOR

### 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



# SpectrAlert Advance Specifications

## Architect/Engineer Specifications

### General

SpectrAlert Advance horns, strobes, and horn strobes shall mount to a standard 4 x 4 x 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 x 4 x 1½-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 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, 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 siren. The horn or 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 MDC 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 4½" x 4½" x 2½" 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)
Humidity Range	10 to 93% non-condensing
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12 DC/FWR or regulated 24 DC/FWR <sup>1</sup>
Operating Voltage Range <sup>2</sup>	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
Input Terminal Wire Gauge	12 to 18 AWG
Ceiling-Mount Dimensions (including lens)	6.8" diameter x 2.5" high (173 mm diameter x 61 mm high)
Wall-Mount Dimensions (including lens)	5.6" L x 4.7" W x 2.5" D (142 mm L x 119 mm W x 61 mm D)
Horn Dimensions	5.6" L x 4.7" W x 1.3" D (142 mm L x 119 mm W x 33 mm D)
Wall-Mount Back Box Skirt Dimensions (BBS-2, BBSW-2)	5.9" L x 5.1" W x 2.2" D (151 mm L x 128 mm W x 56 mm D)
Ceiling-Mount Back Box Skirt Dimensions (BBSC-2, BBSCW-2)	7.1" diameter x 2.2" high (180 mm diameter x 57 mm high)
Wall-Mount Trim Ring Dimensions (sold as a 5 pack) (TR-HS, TRW-HS)	5.1" L x 4.8" W x 0.45" D (125 mm L x 122 mm W x 9 mm D)
Ceiling Mount Trim Ring Dimensions (sold as a 5 pack) (TRC-HS, TRCW-HS)	6.9" diameter x 0.35" high (175 mm diameter x 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 12V nominal only for 15 and 15/75 cd.



## UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)						UL Max. Horn Current Draw (mA RMS)					
	Candela	8-17.5 Volts		16-33 Volts		Sound Pattern	dB	8-17.5 Volts		16-33 Volts	
		DC	FWR	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 Candela Range	135	NA	NA	228	207	Coded	Medium	44	51	56	69
	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-Wire Horn Strobe, Standard Candela Range (15-115 cd)										
	8-17.5 Volts					16-33 Volts				
	15	15/75	15	15/75	30	75	95	110	115	
DC Input	137	147	79	90	107	176	194	212	218	
Temporal High	132	144	69	80	97	157	182	201	210	
Temporal Medium	132	143	66	77	93	154	179	198	207	
Temporal Low	141	152	91	100	116	176	201	221	229	
Non-Temporal High	133	145	75	85	102	163	187	207	216	
Non-Temporal Medium	131	144	68	79	96	156	182	201	210	
Non-Temporal Low										
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	

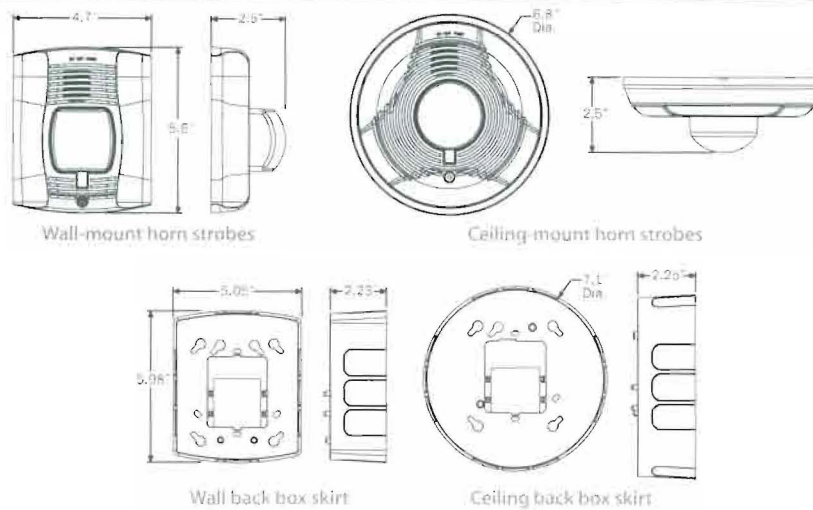
UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, High Candela Range (135-185 cd)										
	16-33 Volts					16-33 Volts				
	135	150	177	185	FWR Input	135	150	177	185	
DC Input	245	259	290	297	Temporal High	215	231	258	265	
Temporal High	235	253	288	297	Temporal Medium	209	224	250	258	
Temporal Medium	232	251	282	292	Temporal Low	207	221	248	256	
Temporal Low	255	270	303	309	Non-Temporal High	233	248	275	281	
Non-Temporal High	242	259	293	299	Non-Temporal Medium	219	232	262	267	
Non-Temporal Medium	238	254	291	295	Non-Temporal Low	214	229	256	262	
Non-Temporal Low										

## 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



## SpectrAlert Advance Ordering Information

Model	Description
<b>Wall Horn Strobes</b>	
P2R*	2-Wire Horn Strobe, Standard cd, Red
P2RH*	2-Wire Horn Strobe, High cd, Red
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
P4W	4-Wire Horn Strobe, Standard cd, White
<b>Wall Strobes</b>	
SR*	Strobe, Standard cd, Red
SRH*	Strobe, High cd, Red
SW*	Strobe, Standard cd, White
SWH*	Strobe, High cd, White
<b>Ceiling Horn Strobes</b>	
PC2R*	2-Wire Horn Strobe, Standard cd, Red
PC2RH	2-Wire Horn Strobe, High cd, Red
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
PC4W	4-Wire Horn Strobe, Standard cd, White

Model	Description
<b>Ceiling Strobes</b>	
SCR	Strobe, Standard cd, Red
SCRH	Strobe, High cd, Red
SCW*	Strobe, Standard cd, White
SCWH	Strobe, High cd, White
<b>Horns</b>	
HR	Horn, Red
HW	Horn, White
<b>Accessories</b>	
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 "TRC" marking on cover), e.g., P2R-P

\* Add "S" to model number for "HEG" marking on cover, e.g., P2R-S

† 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.



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

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SpectrAlert Advance strobes are UL listed for use in wet and damp locations. Some  
models provide 2000 lumens. Includes the latest code and data sheet  
information. 7-11-08-211-01



# PORTLAND MAINE

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Receipts Details:

**Tender Information:** Check , BusinessName: Maine State Sec, Check Number: 2277

**Tender Amount:** 95.00

Receipt Header:

**Cashier Id:** Ldobson

**Receipt Date:** 12/6/2011

**Receipt Number:** 13678

Receipt Details:

Reference ID:	4539	Fee Type:	BP-Permit
Receipt Number:	0	Payment Date:	
Transaction Amount:	40.00	Charge Amount:	40.00
Job ID: Job ID: 2011-11-2765-UI - 6 unit Res - int. Repairs /fire UI#101483 & 101286			
Additional Comments: 274 Park Ave			

Reference ID:	4540	Fee Type:	BP Elec Comm
Receipt Number:	0	Payment Date:	
Transaction Amount:	55.00	Charge Amount:	55.00
Job ID: Job ID: 2011-11-2765-UI - 6 unit Res - int. Repairs /fire UI#101483 & 101286			