

MARTHA CROCKETT

Po Box 182, Casco ME 04077 | 207-310-0944 | smartiesschool@outlook.com

9/9/2020

Renee Carter
Code Enforcement
Town of Naples
15 Village Green Lane
Naples, ME 04055

Dear Renee Carter:

It is my intention to lease the building at 703 Roosevelt Trail in Naples for the purpose of opening a center for school age childcare.

We will care for children ranging from 4-8 years old at the center. We have received a lot of inquiries from the community showing interest in more care of this type, and our research has shown an increased need that we are uniquely designed to fulfil, as we operate a traditional childcare center and preschool at an adjacent property.

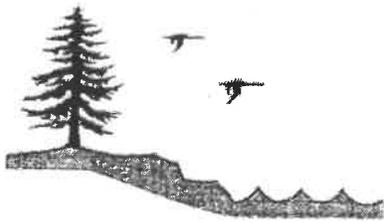
Included in this packet is a Change of Use application, information about the lot, building, and location, as well as a quote for the fire protection system that will be installed upon the approval of this application.

Please note that Fire Chief, Chris Pond, has given verbal confirmation to your office regarding the acceptable access to the property in case of an emergency.

Sincerely,



Martha Crockett
Smarties Early Learning Center
Smarties School Age Care



TOWN OF NAPLES PLANNING BOARD APPLICATION

P.O. Box 1757, Naples, Maine 04055
Phone: (207) 693-6364 / Fax: (207) 693-3667
www.townofnaples.org

Change of Use Application

Date: 9/9/20

Owner/Applicant Name: Martha Crockett d.b.a: Smarties School Age Care

Mailing Address: PO Box 182, Casco ME 04077

Telephone: 207-310-0944 Email: smartieschool@outlook.com

Property Owner: Al Neilsen

Property Location: 703 Roosevelt Trail Map & Lot: U02, Lot 008

Any easements, covenants, or deed restrictions related to the property? No

Zoning District: 1 Waivers requested: None

A list must be submitted for waivers

Name, address, & phone # of applicants engineer, land surveyor or planner: _____

The undersigned, being the applicant, owner or legally authorized representatives, states that all information contained in this application is true and correct to the best of his/her knowledge and hereby does submit the information for review by the Town and in accordance with applicable ordinances, statues, and regulation of the Town, State and Federal governments.

Date: 9/9/2020

Signature: Martha Crockett

Fee Schedule:

Advertising: \$50.00

Aquatic Structure (noncommercial): \$50.00

Fee per abutter: \$7.00

Review Escrow: TBD

Under 1,000 sq. ft. gross floor area: \$300.00

1,000 – 10,000 sq. ft. gross floor area: \$400.00

Over 10,000 sq. ft. gross floor area: \$400.00

**Plus \$25.00 for each 1,000 sq. ft. over 10,000

Development without building: \$400.00

Modification of approved plan: \$100.00

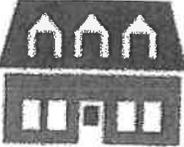
Commercial Initial permit: \$100.00

Commercial Annual Renewal: \$50.00

Applicants Total: \$ 521

Please include 9 copies of application, sketch plan, and any other supporting documentation.

To go before the Planning Board requesting a Change of Use you must submit a letter of intent. Please review the Site Plan Review Ordinance for any other requirements at www.townofnaples.org

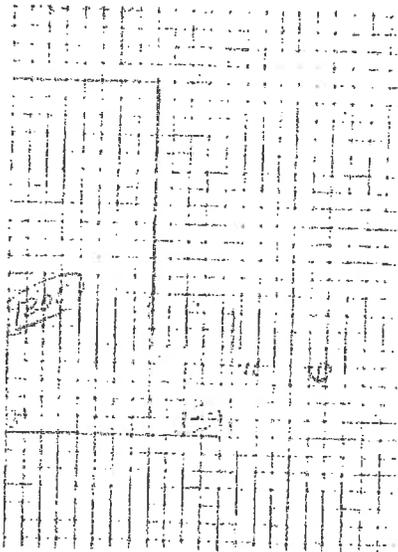
 **John E. O'Donnell**
& ASSOCIATES, INC.
PROPERTY TAX ASSESSMENT • EQUALIZATION • MAPPING
(<https://jeodonnell.com/>)



Naples

[\(HTTPS://JEODONNELL.COM\)](https://jeodonnell.com/) □ CAMA

705 ROOSEVELT TRAIL, Naples, ME



[es/U02-008 Sketch1.jpg](#)

[\(/cama files/naples/U02-008.jpg\)](#)

[\(/cama files/n](#)

Property Information

Site: Map U02 , Lot 008

Town: Naples

Tax Year: 2019

Owner: TA ENTERPRISE, LLC

Last Committed Tax: \$3,462.27

See:

Includes:

Land Value: \$84,404
Building Value: \$174,942
Total Real Value: \$259,346
Exemption Value: \$0
Net Taxable Real Value: \$259,346
Personal Property: \$0

Owner Information

Owner #1: TA ENTERPRISE, LLC

Mailing Address:

PO BOX 373

NAPLES, ME 04055

Trio Account #: 1501

Owner Since: 09/20/2018

Book: 35158

Page: 260

Purchase Price: \$300,000.00

Documents

- [U02-008 \(/cama_files/naples/U02-008.jpg\)](#)
- [U02-008 Fitness Center \(/cama_files/naples/U02-008_Fitness_Center.jpg\)](#)
- [U02-008 Sketch \(/cama_files/naples/U02-008_Sketch.jpg\)](#)
- [U02-008 Sketch1 \(/cama_files/naples/U02-008_Sketch1.jpg\)](#)

Land Information

Land Group: Type	Size	Method	Value	Total Adj	Adj Details
Primary Lot : Table 5	0.4 AC	Calculated	\$54,404.00	100.0%	
	0.37 Ac		\$54,404.0		

Tree Growth:

Open Space:

Farmland:

Site Information

Description	Adjustment
Drilled Well	\$0.00
Septic System	\$0.00
SI Grade 3	\$30,000.00
	\$30,000.00

Lump Sum: \$0

Zoning Information

Zoning	Description
Zoning 1	Commercial & Residential

Primary Building Data

Building Type	Area	Grade	Cond (Condition)	F.Obs. (Functional Obsolescence)	E.Obs. (Economic Obsolescence)	Value	Color	Year Built
2½-Story House	638	3.30	85%	100%	100%	\$105,894	GRY	
1-Story - Addition	192	3.20	77%	100%	100%	\$8,619		
Deck	80	3.30	85%	100%	100%	\$741		
Shed	104	3.30	85%	100%	100%	\$500		
1-Story House - Fitness Center	1200	2.75	90%	80%	100%	\$58,186		

Building Type	Area	Grade	Cond (Condition)	F.Obs. (Functional Obsolescence)	F.Obs. (Economic Obsolescence)	Value	Color	Year Built
Shed - Fitness Center Shed	144	2.75	90%	80%	100%	\$1,002		

Visit History

Date	Purpose	Result	Individual
05/12/2005	Building Permit	Measure & List	Dana Berube
04/07/2004	Building Permit		Roland Dumont
10/30/2003	Building Permit	Measure	Susan Nadeau
01/11/2001	Equalization	Measure	Paul Binette

Exemptions

Type	Value
No data available in table	

[Back to Top](#)

Town Information

Town of Naples

Tax Rate: 0.013350

Tax Due Dates: 10/20/2019, 04/20/2020

Commitment Date: 08/26/2019

Certified Ratio: 1.00



PO Box 1757

Naples, ME

Phone: 207 693 6364

Fax: 207 693 3667

Tax Collector: Judy Whynot

Treasurer: John Hawley

Tax Maps for Download

[Naples 2019 Cover \(/cama_files/naples/Naples 2019 Cover.PDF\)](/cama_files/naples/Naples_2019_Cover.PDF)

[Naples 2019 Fire Lane \(/cama_files/naples/Naples 2019 Fire Lane.PDF\)](/cama_files/naples/Naples_2019_Fire_Lane.PDF)

[Naples 2019 Index \(/cama_files/naples/Naples 2019 Index.PDF\)](/cama_files/naples/Naples_2019_Index.PDF)

[Naples 2019 Overall \(/cama_files/naples/Naples 2019 Overall.pdf\)](/cama_files/naples/Naples_2019_Overall.pdf)

[Naples 2019 R01 \(/cama_files/naples/Naples 2019 R01.PDF\)](/cama_files/naples/Naples_2019_R01.PDF)

[Naples 2019 R02 \(/cama_files/naples/Naples 2019 R02.PDF\)](/cama_files/naples/Naples_2019_R02.PDF)

[Naples 2019 R03 \(/cama_files/naples/Naples 2019 R03.PDF\)](/cama_files/naples/Naples_2019_R03.PDF)

[Naples 2019 R04 \(/cama_files/naples/Naples 2019 R04.PDF\)](/cama_files/naples/Naples_2019_R04.PDF)

[Naples 2019 R05 \(/cama_files/naples/Naples 2019 R05.PDF\)](/cama_files/naples/Naples_2019_R05.PDF)

[Naples 2019 R06 \(/cama_files/naples/Naples 2019 R06.PDF\)](/cama_files/naples/Naples_2019_R06.PDF)

[Naples 2019 R07 \(/cama_files/naples/Naples 2019 R07.PDF\)](/cama_files/naples/Naples_2019_R07.PDF)

[Naples 2019 R08 \(/cama_files/naples/Naples 2019 R08.PDF\)](/cama_files/naples/Naples_2019_R08.PDF)

[Naples 2019 R09 \(/cama_files/naples/Naples 2019 R09.PDF\)](/cama_files/naples/Naples_2019_R09.PDF)

[Naples 2019 R10 \(/cama_files/naples/Naples 2019 R10.PDF\)](/cama_files/naples/Naples_2019_R10.PDF)

[Naples 2019 R11 \(/cama_files/naples/Naples 2019 R11.PDF\)](/cama_files/naples/Naples_2019_R11.PDF)

[Naples 2019 R12 \(/cama_files/naples/Naples 2019 R12.PDF\)](/cama_files/naples/Naples_2019_R12.PDF)

[Naples 2019 U01 \(/cama_files/naples/Naples 2019 U01.PDF\)](/cama_files/naples/Naples_2019_U01.PDF)

[Naples 2019 U02 \(/cama_files/naples/Naples 2019 U02.PDF\)](/cama_files/naples/Naples_2019_U02.PDF)

Smarties

112'

20'

dentist

120'

Formerly
Mountain
of you

Proposed Site

Parking

House

135'

Apartment
8

120'±

120'±

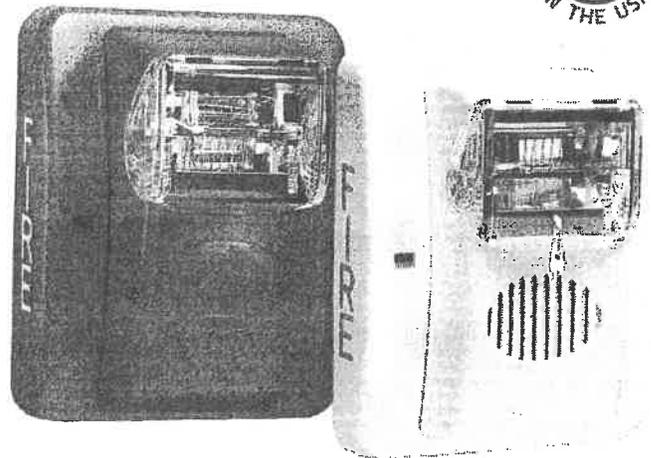
85'

S

D O .

Features

- 24VDC units have field selectable candela options of 15, 30, 60, 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
- 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)
- Silence audible while visual appliance will remain flashing (for use in accepted jurisdictions)
- Faceplate available in red or off-white



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.

Technical Specifications

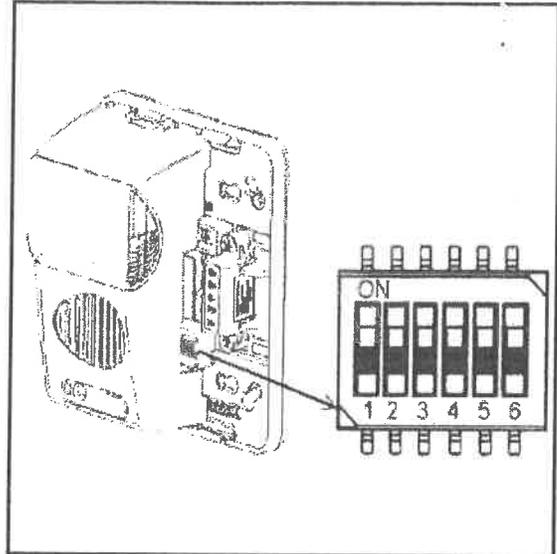
Mounting Options	Single or Double gang, 4" square box, and AVBB surface mount back box
Terminals	Screw-Clamp Type
Wire Gauge	18 - 12 AWG
Operating Temp	32°F - 120°F (0° - 49°C)
Dimensions	Height - 5" Width - 4.5" Depth - 2.5"
Shipping Weight	1.05 lbs

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

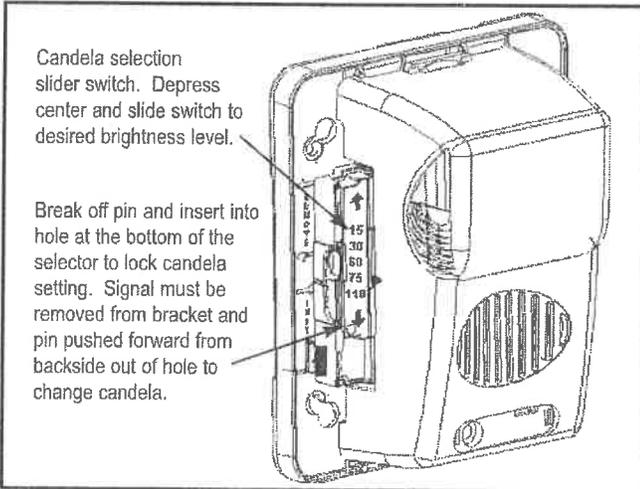
NOTE:

- Switch Positions 1 The 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

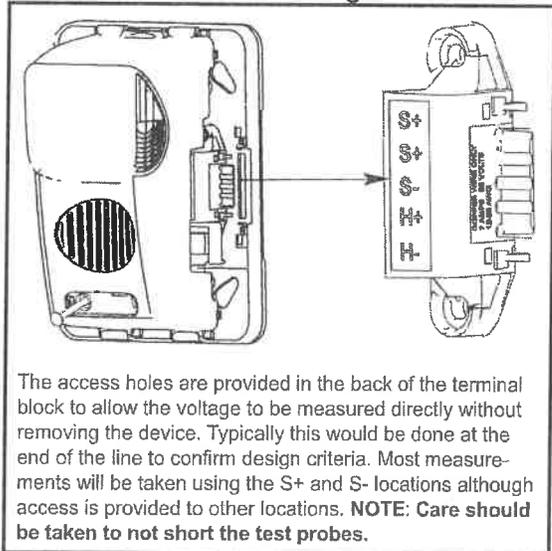
Switch Locations



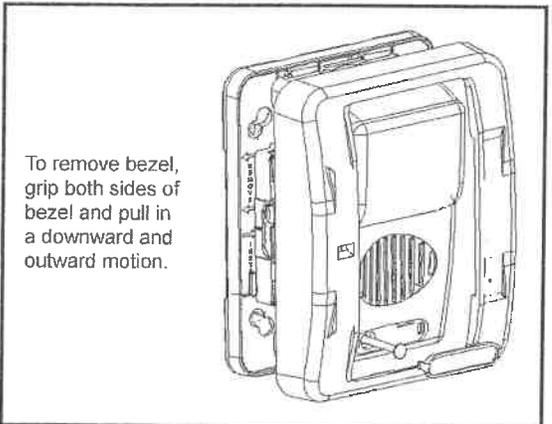
Candela Selection



Checkmate™ - Instant Voltage Verification



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.



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 Strobe

Model Number	Part Number	Nominal Voltage	Candela (ANSI/UL 1971)	Reverberant dBA at 10 ft, per ANSI/UL 464	In Anechoic Room 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 Strobe Current Ratings

24 VDC (16 - 33 Volts)		
Candela	24 VDC	UL Max
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.

“AGENT” bezel available for order.

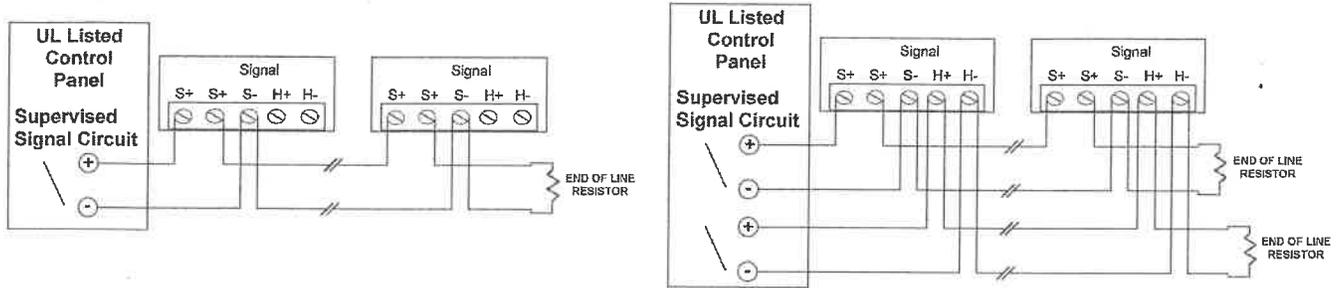
S-24 & HS-24 Horn Ratings

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).

S-24 & HS-24 Series Wiring Diagram



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 TECHNICAL SUPPORT AT 1-866-956-1211

Architect & Engineering Specifications

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

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.

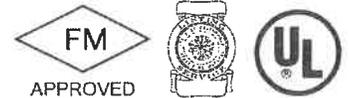
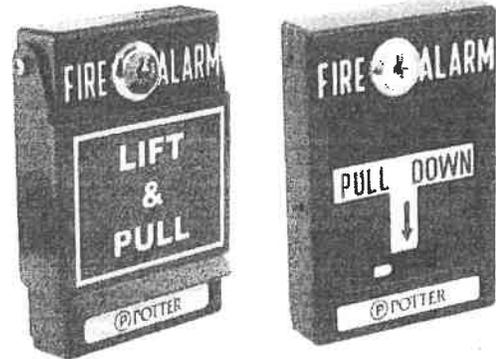
The audible/visible and visible signaling appliance shall also maintain a minimum flash rate of 1Hz or up to 2Hz regardless of power input voltage. The strobe appliance shall have an operating current of 42mA or less at 24VDC for the 15Cd strobe circuit.

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.

Features

- Single or Dual Action versions
- Durable die-cast construction
- Reset key matches the fire alarm control panels
- Compatible with IPA Series panels
- SLC Class A, Class X & Class B
- Product includes a 5 year warranty
- UUKL Listed for Smoke Control



Description

The PAD100-PSSA (Single Action) is activated by simply pulling the white "T" bar handle down. The PAD100-PSDA (Dual Action) is activated by lifting the front cover and then pulling the white "T" bar handle down. Once activated, the "T" bar cannot be reset without opening the front cover. Opening the front cover will also activate the pull station. To reset the PAD100-PS Series, use the Potter WS-93 key to unlock and open the front cover. Once the cover is open, push the "T" bar back into the normal position and re-secure the front cover.

Application

The PAD100-PSSA/PSDA is compatible with Potter's IPA and AFC/ARC series addressable fire alarm control panels. It is a non-coded addressable pull station available in either a single or dual action model and installs on a single gang box or surface mounts using the P32-BB or P32-DBB (deep) back box.

Technical Specifications

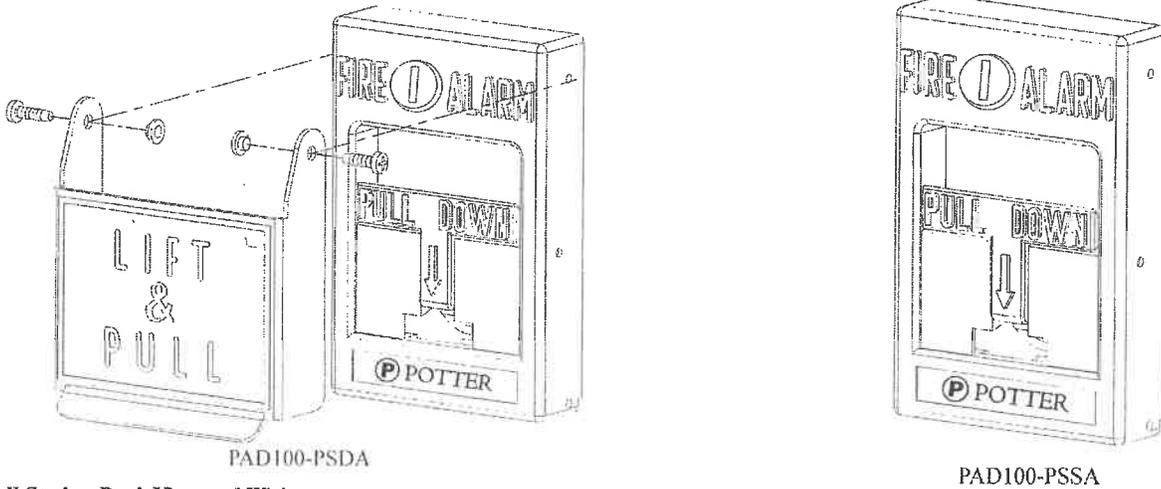
Operating Voltage	24.0 VDC
Max SLC Standby Current	200uA
Max SLC Alarm Current	200uA
Environmental Limitations	32°F - 120°F (0° - 49°C) Indoor Only
Dimensions	4.75" H x 3.25" W x 1.75" D
Relative Humidity Range	0 - 93% (non-condensing)
Mounting Options	Single gang box or Potter P32-BB/DBB
Shipping Weight	APS-SA - 1.22 lbs. APS-DA - 1.46 lbs.

Setting the Address

The PAD100-PS Series uses one SLC address assigned to the device. The address is set using the DIP switch located on the back of the PAD100-PS device.

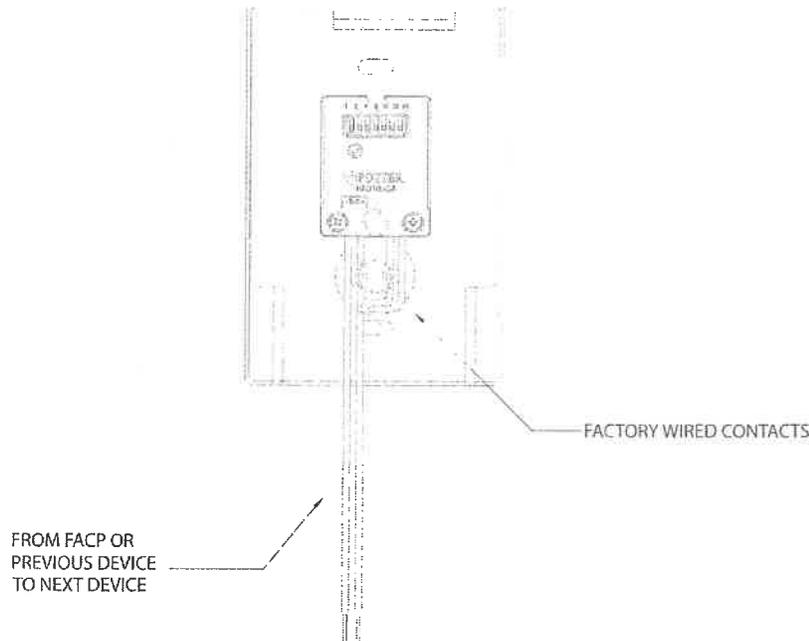
Pull Station Front View

Fig 1



Pull Station Back View and Wiring

Fig 2

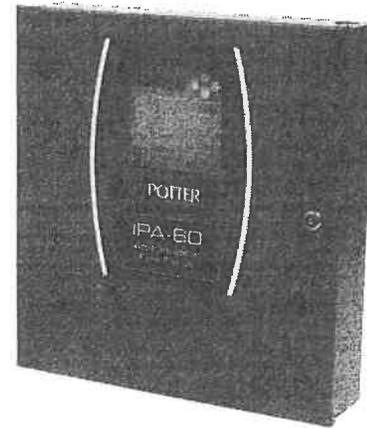


Ordering Information

Model	Description	Stock No.
PAD100-PSSA	Addressable Pull Station, Single Action	3992721
PAD100-PSDA	Addressable Pull Station, Dual Action	3992720

Features

- 60 addresses available on this analog addressable system
- Additional system capacity achieved via multi-point SLC modules
- 99 software zones
- NFPA 72 Compliant Smoke Sensitivity Test Built-In
- System Operates as Class A or Class B for SLC, P-Link and NACs
- 5 Amp Power Supply, Expandable to 310 amps
- 2 NACS, Regulated, Rated at 3 Amps each, expandable to 188
- 2 Input/Output (I/O) Circuits for system flexibility rated at 1 Amp each, ideal for manual release and abort
- Strobe Synchronization and System Wide Sync for Potter/AMSECO®, Gentex®, Cooper Wheelock® and System Sensor® strobes
- Dedicated Alarm, Supervisory and Trouble Relays
- 4,000 Event History Buffer
- Cabinet will house up to 18 AH batteries
- Optional two line DACT with UD-2000 that can report General, Zone or Point Information
- Built in IP Communicator
- Ethernet Port for Programming and Network Connectivity
- E-Mail System Status, Reports and Event Information
- Product includes 5 year warranty.
- UUKL Listed for Smoke Control



Description

The IPA-60 is an analog/addressable releasing fire alarm system with a total system capacity of 60 addresses. Additional capacity on the system is achieved using multi-point SLC modules. The control panel utilizes the exclusive Potter protocol that includes a complete line of sensors and modules. Each SLC may be comprised of any combination of smoke sensor, heat detectors or modules and allows for a total of 50 ohms of impedance and may use any wire compliant with the National Electrical Code (NEC).

The IPA-60 has a 5 Amp power supply with two Notification Appliance Circuits (NACs) and two Input/Output (I/O) circuits. The NACs are rated at 3 Amps each and the I/Os are rated at 1 Amp each. Each output is regulated and power limited. In addition, each output is uniquely programmable and may be configured for steady signal, strobe synchronization, constant power, door holder power, or releasing. The strobe synchronization includes Potter/AMSECO, Gentex, System Sensor and Cooper/Wheelock and with the exclusive Quadrasync each output may have a unique brand and all strobes will flash together. The I/Os are designed for inputs such as manual release stations and abort switches that will not require polling and react nearly instantaneously.

The IPA-60 is listed for releasing of fire suppression systems. The software allows cross zones, counting zones, and timers for suppression. The system is capable of multiple release outputs across multiple hazards. In addition, the PSN-1000 may be used to extend releasing capability. The NACs may be expanded using the PSN-1000 series intelligent power supplies. Each PSN-1000 adds another 10 Amps of power, 2 additional input circuits and the IPA-60 will support up to 31 power supplies. The system will synchronize the strobes system wide. In addition, the PSN-1000E has space to allow the installation of up to six expansion cards. The cards mount on a stacker bracket that allows access to all SLC circuit connections.

Technical Specifications

Dimensions	16"W x 17"H x 3 7/8"D
AC Mains	3.0 Amps @ 120 VAC 50/60 HZ 2.0 Amps @ 240 VAC 50/60 HZ
Enclosure	16 gauge cold rolled steel with removable locked door with Lexan viewing window
Battery	Standby Current-130 mA Alarm Current-200 mA <ul style="list-style-type: none"> • 5 Amps power for NACs, I/O, and P-Link • 3 Amps per NAC, regulated • 1 Amp per I/O circuit, regulated • Battery Charger range 8-55 Ah • Battery Charger voltage 27.3 VDC • P-Link maximum current of 1 Amp
Temperature and Humidity Range	32° to 120° (0°C to 49°C) with a maximum humidity of 93% non-condensing.
Standards	<ul style="list-style-type: none"> • NFPA 12, 12A, 13, 15, 16, 17, 17A, 70, 72, 750, and 2001 • ANSI/UL 864 - Local (L), Remote Station (RS), Central Station (CS), Proprietary (PPU), Auxiliary (AUX). Type of Service: Automatic (A), Manual (M), Water flow (WF) Sprinkler Supervisory (SS) Type of Signaling: Digital Alarm Communicator (DAC), March Time (March), Non Coded (NC), Reverse Polarity (Rev Pol), Other Technologies (OT) • IBC 2000, 2003, 2006, 2009, 2012

SLC Loop Accessories

The control panel may be connected with up to 60 addressable devices or modules in any combination. The SLC is not restricted by any special wire requirements and may be wired with any wire that complies with the NEC.

SLC Loop Devices

Device	Description
PAD100-PD	Analog Photo Electric Smoke Detector is a smoke detector with a listed obscuration of 1.02 to 3.83 percent per foot.
PAD100-PHD	Combination Analog Photo Electric Smoke/Heat Detector – a smoke detector with a listed obscuration of 1.02 to 3.83 percent obscuration and a fixed temperature 135° Fahrenheit heat detector.
PAD100-HD	Analog Fixed Temperature Heat Detector that is selectable from 135° F to 185°F.
PAD100-DUCTR	Addressable Duct Smoke Detector with Form C Relay.
PAD100-DUCT	Addressable Duct Smoke Detector.
PAD100-6B	6" round base that is mounted to an electrical box and wired for connection of one of the above sensors.
PAD100-4B	4" round base that may be mounted to an electrical box and wired for connection to the above sensors.
PAD100-IB	Isolator base that interrupts a short in a SLC and prevents the short from affecting protected devices on the loop.
PAD100-RB	Addressable Relay Base that contains one relay controlled by the SLC. Relay is rated at rated at 2 amps at 30 VDC or 0.5A at 125VAC.
PAD100-SB	Addressable Sounder Base that contains an addressable sounder module that may be configured for local, group and all call.
PAD100-CD	Addressable CO gas detector.
PAD100-DD	Addressable photo electric smoke detector for use in DUCT/DUCTR enclosure.
PAD100-LFSB	Addressable Low Frequency Sounder Base that contains an addressable sounder module that may be configured for local, group and all call. The LFSB complies with the Low Frequency Signal Requirements (520 Hz)
PAD100-SPKB	Speaker base is a wall or ceiling mount speaker capable of 25 or 70.7 VRMS and is field selectable from 1/8W to 4W.

Modules

Device	Description
PAD100-MIM	Micro Input Module provides a small foot print contact module for mounting inside an enclosure.
PAD100-PSSA	Single Action Addressable Pull Station.
PAD100-PSDA	Dual Action Addressable Pull Station.
PAD100-SIM	Single Input Module is a standard contact module with an LED that mounts into a 4" square electrical box.
PAD100-DIM	Dual Input Module is a device that can monitor two distinct inputs with a single device or in a Class A mode.
PAD100-TRTI	Two Relay Two Input module provides two form C relays that are individually controlled by the control panel. Each relay is rated for 2 amps at 30VDC or 0.5 amps at 125VAC. Also provides two contact inputs.
PAD100-NAC	Notification Appliance Circuit module is an addressable remote appliance circuit controlled by the panel.
PAD100-ZM	Zone Module is used to connect conventional 2-wire smoke detectors to the system.
PAD100-IM	Module interrupts a short on the SLC and prevents the short from affecting protected devices on the loop.
PAD100-RM	Relay Module that provides one form C relay controlled by the control panel. Relay is rated for 2 amps at 30VDC or 0.5 amps at 125VAC.
PAD100-LED	Module provides a single addressable LED that is controlled by the control panel.
PAD100-SM	Speaker Module provides switching for two audio channels.
PAD100-LEDK	Addressable LED and key switch that mounts in a single gang box.
PAD100-DRTS	DUCTR Remote Test Switch that mounts in a single gang box and optionally supervised.
PAD100-OROI	One Relay One Input Module provides one form C relay and one input. The relay is rated at 2 amps at 30VDC or 0.5 amps at 125VAC.

SLC Features

The Potter protocol is a digital protocol with a proven design for reliability and noise immunity. The system does not require special cable or conductors for connection of the Signaling Line Circuit as long as the cable is compliant with NFPA 70 and NFPA 72. The system allows for Class A or Class B installations as well as "T-Taps", with a max wiring distance of 10,000 Ft.

Sensor Features

The sensors through the fire alarm control panel provide a real time status as to the condition of the system. The smoke detector sensitivity, heat detector temperature level and drift compensation are all programmable options. The system also allows for a day/night mode where the panel automatically adjusts the sensitivity depending on the time of day. To assist in the reduction of false alarms, the smoke detectors also have a maintenance warning that sends a trouble signal when a detector is dirty to the point that it can no longer maintain the programmed sensitivity.

User Interface

The fire alarm control panel has a 2 x 16 LCD display to provide information to the system status. The keypad has navigation keys to allow manipulation of the Menu on board the panel. The panel is shipped standard with the following LEDs:

- AC Power - Green
- Alarm - Red
- Earth Fault - Amber
- Supervisory - Amber
- Silenced - Amber
- Trouble - Amber
- Pre-Release - Amber
- Release - Red

The common buttons include a Silence, Reset, Acknowledge, and Drill. All of the buttons are accessible once the locked door is opened.

P-Link

The IPA-60 has a proprietary communication protocol that communicates through a RS-485 connection to field devices. Up to 64 devices may be connected to a single P-Link connection. The P-Link includes the communication terminals and regulated 24 VDC connection for the field devices. The field devices may be any of the following:

RA-6075R – 2 x 16 LCD annunciator with a key pad in a locked metal enclosure.

RA-6500R(F) – 4 x 40 LCD annunciator with a key pad in a locked metal enclosure. Flush mount version available.

LED-16(F) – 16 LED annunciator with common indicators in a locked metal enclosure. Flush mount version available.

PSN-1000(E) – 10 amp, remote intelligent power supply with 6 NACs, 2 Inputs and a P-Link repeater. This panel is listed in conjunction with the IPA-60 as releasing circuits.

CA-6075 – Class A convertor that converts the SLC, NACs and P-Link connection

UD-2000 – UL listed, Dual line telephone alarm communicator

DRV-50 – LED driver expander, used to connect up to 50 LEDs in a graphic display

FCB-1000 – Fire communication bridge, provides remote mounting of the Ethernet connection

FIB-1000 – Fiber interface module, used to extend P-Link to multi-mode fiber (2 required)

RLY-5 – Relay module, provides 5 form C relay contacts rated at 3.0 amps 24VDC/125AC

SPG-1000 – Serial parallel gateway, allows for the connection to a serial or parallel printer

The **FIB-1000**, **FCB-1000** and the **SPG-1000** may be installed in the stacker bracket or ordered with the optional rack mount enclosure.

MC-1000 Multi-Connect allows up to sixty-three IPA series panels to share a single reporting technology.

IDC-6 – Initiating device circuit provides 6 programmable inputs

AE-2 – Two card expansion cabinet

AE-8 – Eight card expansion cabinet

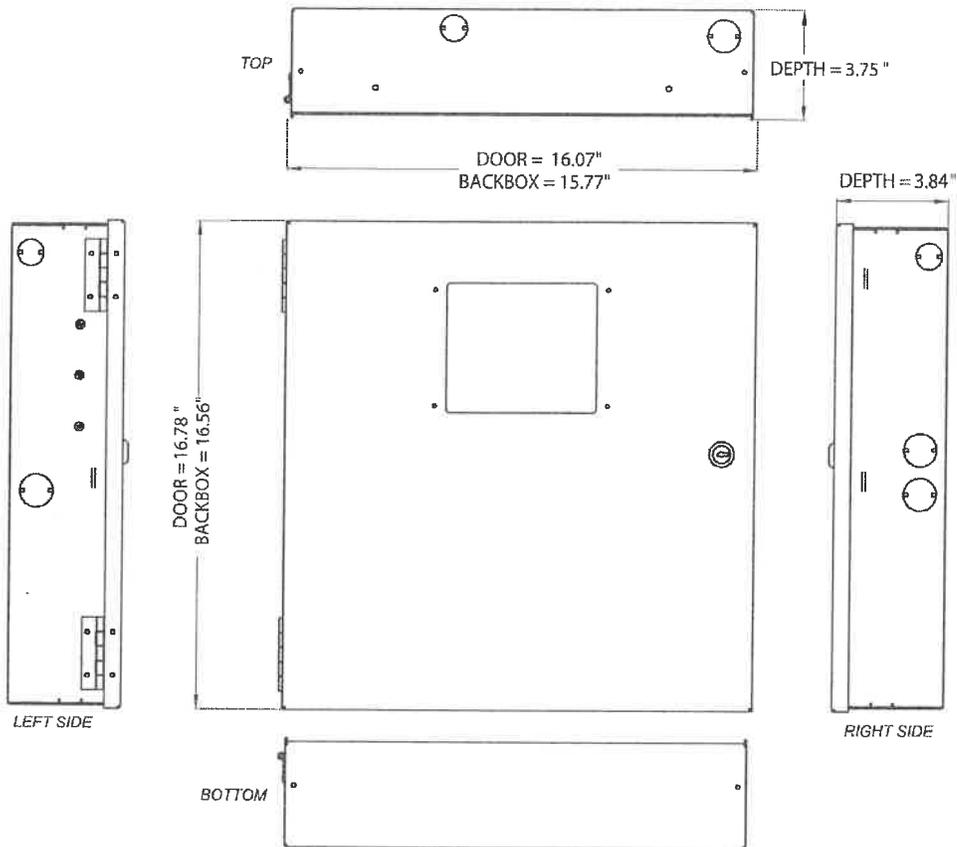
AE-14 – Fourteen card expansion cabinet

Ethernet/I.P. Connection

The IPA-60 is shipped standard with an Ethernet connection. This connection is the programming port and may be connected to a building Wide Area Network (WAN) or Local Area Network (LAN). Once connected to the Internet, the panel may be selectively programmed to e-mail alarm conditions, trouble conditions, supervisory conditions, test, Event History and detector status. An e-mail may be sent to the panel and the panel will e-mail the event history, detector status, configuration file or server status to an authorized E-mail account. In addition, reminders may be set to send an e-mail for service, testing or other conditions.

In addition, the Ethernet connection is UL listed as an IP communicator. The IP communicator is listed to report to the UL listed Sur-Gard III IP receiver. The IP communicator replaces the traditional less reliable alarm communicator transmitter that utilized telephone lines. The IP communicator is an active method of connection and communication to the monitoring station.

Dimensions



DWG #693-1

Compatible Releasing Devices

Note: For releasing applications please order the Potter EOLD (3005012) for circuits connected to a releasing solenoid or actuator.

Ordering Information

Model	Description	Stock No.
IPA-60	Fire Alarm Releasing Control Panel	3992714
	Replacement Board IPA-60	3992738

Brand	Description
Skinner	73218BN4UNLVN0C112CZ 73212BN4TNLVN0C322C2
Victaulic	753-E Series
Mini Max	MX123 & MX200 w/ 8876677 & 889323
Viking	11591, 11601, 11602, 13843, & 13844
TLX	PA0036

Features

- Integrated Sounder in base
- 75 dB (UL 464 Listed) sounder output
- Sounder independent of sensor, allows for a single station, grouped or all-call
- May be mapped to any device connected to the control panel
- Terminals accept 22 to 12 AWG wire sizes
- Supports Class A, Class X and Class B wiring
- Does not require SLC Loop address
- UUKL Listed for Smoke Control



Description

The Addressable Sounder Base 6" (PAD100-SB) is a sounder base that may be utilized in a variety of applications. The base has a locking feature for the sensor that may be used or removed in the field. Once the head is removed, the sounder is accessible in the bottom of the unit.

The base has an independent sounder module that may be programmed as a single station, zone or all call sounder. The PAD100-SB passes through the sound pattern sent to the sounder, therefore it may reproduce in any pattern the power supply provides.

The panel will support any combination of sensors or modules on the SLC. The PAD100-SB does not consume an address on the loop and is fully programmable to operate with any input. Once activated the sounder will also follow the input from the power source and deactivate accordingly.

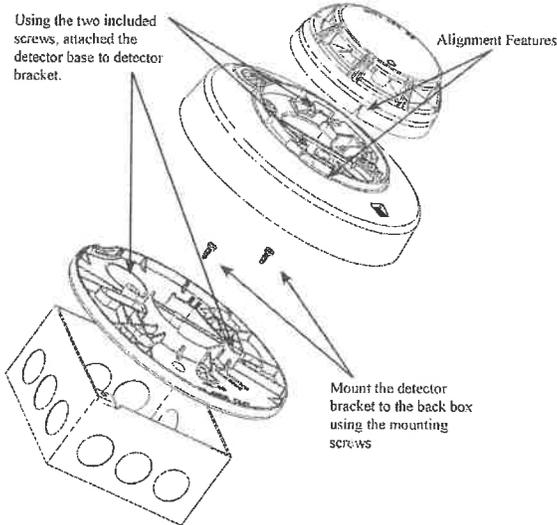
Technical Specifications

Working Range for SLC	24 VDC
Working voltage range for PWR	16 - 33 VDC
Active current for PWR	30 ma
Sound pressure level	75dB/10ft (min.) as per UL464
Installation temperature range	32°F to 120°F (0°C to 49°C)
Operating relative humidity range	0% to 93% (Non-condensing)
Start-up time	Max. 1 sec.
Maximum number of devices per zone	127
Color	Eggshell White
Dimensions (without detector)	Height: 0.75 in (19mm) Diameter: 6.3 in (166 mm)

Detector Base Mounting

PAD100-SB should be mounted directly on the electrical box. The mounting holes are configured for a single gang, double gang, octagon or 4" square box. See Fig. 1.

Fig. 1



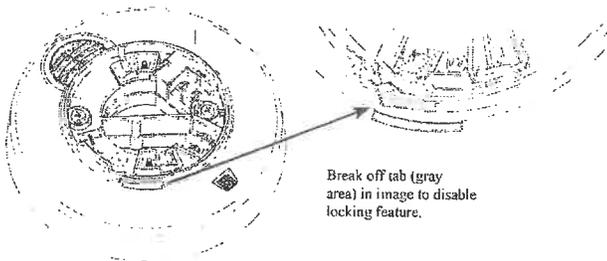
Locking Feature

Eliminate the Locking Feature

PAD100-SB include a locking feature that prevents removal of the detector and removal of the base cover without using a tool.

1. To eliminate this feature, break off the locking tab and then install the detector. See Fig. 2.

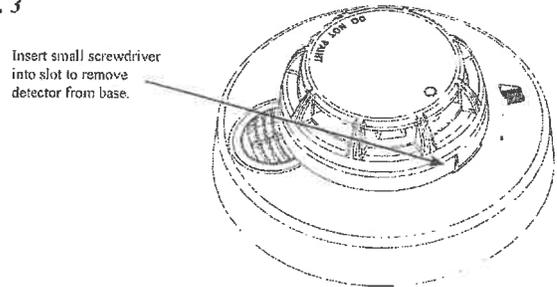
Fig. 2



Removing of Detector Head from Base

2. To remove the detector from the base once the locking feature has been activated, insert a small screwdriver into the slot on the base to push the plastic tab while simultaneously turning the detector head counter-clockwise. See Fig. 3.

Fig. 3



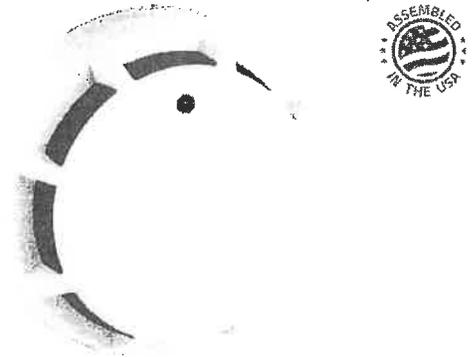
3. To remove the base cover from the lower enclosure once the locking feature has been activated, insert a small screwdriver into the slot on the base to push the plastic tab while simultaneously turning the detector head counter-clockwise.

Ordering Information

Model	Description	Stock No.
PAD100-SB	Addressable Sounder Base	3992729

Features

- Low profile, less than 2 inches with the base
- Wide selectable sensitivity range of 1.0 to 3.7%/foot
- Sensor communicates sensitivity to control panel
- UL listed smoke calibration and sensitivity
- Optional locking tab to prevent unwanted removal
- Simple DIP switch address setting, no programming tool required
- LED alarm indicator
- Product includes a 5 year warranty
- UUKL Listed for Smoke Control



Description

The Photoelectric Smoke Sensor is a listed Analog Addressable smoke sensor compatible with fire alarm control panels that utilize the Potter Addressable Device (PAD) protocol. The PAD100-PD is a low profile smoke sensor with a wide sensitivity range. The sensor and base (not included) are made of a durable plastic in an off-white color to blend in with the ceiling.

The PAD100-PD has a sensitivity range of 1.0 to 3.7 % per foot and is UL. The PAD100-PD features drift compensation and has built in dirty detector warning as well as. The PAD100-PD and the control panel communicate over a proven and robust digital communication path and the system analyzes the information at the particular device. The total polling speed is less than five (5) seconds, well under the UL requirements.

The sensor is compatible with any of the PAD series sensor bases and simply twists on. The PAD100-PD is addressed using DIP switches in the rear of the sensor and can be easily programmed in the field without special tools.

Setting the Address

Each addressable device on the SLC loop must have a unique address from 1 to 127 to function properly. The address is set using DIP switches.

Before connecting a device to the SLC loop, take the following precautions to prevent potential damage to SLC or device. Verify the following:

1. Power to the device is removed
2. Field wiring is correctly installed.
3. Field wiring has no open or short circuits.

Technical Specifications

Operating Voltage	24 VDC
Detector Current Draw	300 μ A
Alarm indicator	1 LED
Alarm set-point range	1.0 to 3.7 %/ft 3.6-12 %/m
Installation temperature range	32 to 120 ° F / 0 to 49 ° C
Operating relative humidity range	0% to 93% (Non-condensing)
Start-up time	Max. 1 sec.
Maximum number of addresses per loop	127
Maximum number of lighted indicators in alarm per loop.	30
Color	Eggshell White
Weight (without base)	101g (3.56oz)
Dimensions (without base)	Height: 1.35 in (34mm) Diameter: 3.93 in (100 mm)

Air Velocity Ratings

The PAD100-PD has an Open Area of Protection air velocity rating of 0 to 300 feet per minute.

The system has a maximum of 30 LEDs that can be turned on simultaneously. If the system already has 30 LEDs on, the PAD100-PD will operate even though the LED may not illuminate.

Operation

The PAD100-PD is an analog addressable sensor that uses one address on the Signaling Line Circuit (SLC) of a compatible fire alarm control panel. The unit communicates with the control panel as it is polled. The LEDs flash every time the unit is polled and they will flash at a fast rate if the unit is in an active status. The polling LED can be turned off if desired for less conspicuous operation.

The PAD100-PD with the PAD100-4DB or PAD100-6DB has a low profile of less than two (2) inches to blend into the surrounding environment. The sensor includes an insect screen to prevent foreign objects from reaching the chamber and the can be cleaned to restore operation of a dirty detector.

Sensor Sensitivity

The PAD100-PD and the compatible control panel work in tandem to keep the sensitivity consistent. As the sensor is installed over time, the sensor compensates for the dirt in the unit until it is out of range. At that time, the panel will indicate a dirty sensor. The sensor will then have to be cleaned or replaced.

The PAD100-PD can be programmed to provide a maintenance alert prior to reaching the dirty sensor level which will allow for intervention prior to the sensor going into trouble. This allows for sensor replacement or cleaning prior to a nuisance trouble occurs.

NOTE: As required by NFPA, do not install the sensors until all construction is complete and the work area has been thoroughly cleaned. If the sensors have been installed in a construction environment, they should be cleaned or replaced before the system is placed into service.

Spacing

The PAD100-PD is UL listed with a recommended maximum spacing of 30 feet. Refer to NFPA 72 for specific information regarding detector spacing, placement and special applications.

Compatible Bases

All bases will mount on a single gang, double gang, octagon, 4" square or mud ring electrical box.

Device	Description	Stock No.
PAD100-4DB	4" Standard Base	3992731
PAD100-6DB	6" Standard Base	3992732
PAD100-IB	6" base with an isolator module included.	3992730
PAD100-RB	6" base with one Form-C relay contact. 2A @ 30VDC, 0.5A @ 125VAC	3992728
PAD100-SB	6" base with sounder module included. Sound pattern is provided from external source.	3992729
PAD100-SPKB	6" base with speaker included	3992762

Ordering Information

Model	Description	Stock No.
PAD100-PD	Photoelectric Smoke Sensor	3992733

Features

- Selectable Rate of Rise and/or Fixed Heat Detector
- Low profile
- Reliable detection technology
- LED Alarm Indicator
- Ambient temperature listing of 32° F to 150° F
- Simple DIP switch address setting, no programming tool required
- Product includes a 5 year warranty
- UUKL Listed for Smoke Control



Description

The PAD100-HD is a listed Analog Addressable rate of rise and/or fixed temperature heat sensor compatible with any fire alarm control panel that has the Potter Addressable Device (PAD) protocol. The heat sensing portion utilizes a proven thermistor for accurate and reliable heat detection. The sensor and base (not included) are made of a durable plastic in an off white to blend in with the ceiling.

The PAD100-HD is UL listed with a selectable fixed temperature point from 135° to 185° Fahrenheit and can be used for rate of rise applications. See detector spacing limitations below. This flexibility allows the installer to cover a wide variety of applications with a single unit.

The PAD100-HD and the control panel communicate over a proven and robust digital communication path and the system analyzes the information at the particular device. The total polling speed is less than five (5) seconds, well under the UL requirements.

The sensor is compatible with any of the PAD series sensor bases and simply twists on. The PAD100-HD is addressed using DIP switches in the rear of the sensor and can be easily programmed in the field without special tools.

Setting the Address

Each addressable device on the SLC loop must have a unique address from 1 to 127 to function properly. The address is set using DIP switches.

Before connecting a device to the SLC loop, take the following precautions to prevent potential damage to SLC or device. Verify the following:

1. Power to the device is removed
2. Field wiring is correctly installed.
3. Field wiring has no open or short circuits.

Technical Specifications

Operating Voltage	24 VDC
Detector Current Draw	300 μ A
Alarm indicator	1 LED
Alarm set-point range	135 to 185 °F / 57 to 85 °C
Rate of Rise Detection (Selectable Option)	15°F/min. (8.3°C/min.)
Installation temperature range	32 to 150 °F / 0 to 66 °C
Operating relative humidity range	0% to 93% (Non-condensing)
Start-up time	Max. .1 sec.
Maximum number of addresses per loop	127
Maximum number of lighted indicators in alarm per loop	30
Color	Eggshell White
Weight (without base)	82g (2.89 oz)
Dimensions (without base)	Height: 1.94 in (49mm) Diameter 3.93 in (100mm)

Operation

The PAD100-HD is an analog addressable sensor that uses one address on the Signaling Line Circuit (SLC) of a compatible fire alarm control panel. The unit communicates with the control panel as it is polled. The LED flashes every time the unit is polled and will flash at a fast rate if the unit is in an active status. The polling LED can be turned off if desired for less conspicuous operation.

The PAD100-HD with the PAD100-4DB or PAD100-6DB has a low profile to blend into the surrounding environment. The system has a maximum of 30 LEDs that can be turned on simultaneously. If the system already has 30 LEDs on, the PAD100-HD will operate even though the LED will not illuminate.

Spacing

The ANSI/UL listed spacing limitations of PAD100-HD smooth ceiling are dependent on alarm set point.

Alarm Set-Point	Rate of Rise Spacing	Fixed Temperature Spacing
135°F to 160°F (57°C to 71°C)	Max. 70 ft.	Max. 70 ft.
161°F to 174°F (72°C to 79°C)	Max. 60 ft.	Max. 60 ft.
175°F to 185°F (80°C to 85°C)	Max. 15 ft.	Max. 15 ft.

Compatible Bases

All bases will mount on a single gang, double gang, octagon, 4" square or mud ring electrical box.

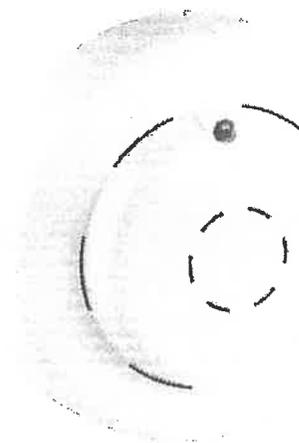
Device	Description	Stock No.
PAD100-4DB	4" Standard Base	3992731
PAD100-6DB	6" Standard Base	3992732
PAD100-IB	6" base with an isolator module included.	3992730
PAD100-RB	6" base with one Form-C relay contact. 2A @ 30VDC, 0.5A @ 125VAC	3992728
PAD100-SB	6" base with sounder module included. Sound pattern is provided from external source.	3992729
PAD100-SPKB	6" base with speaker included	3992762

Ordering Information

Model	Description	Stock No.
PAD100-HD	Fixed Temperature Heat Sensor	3992735

Features

- Carbon Monoxide detection device compliant with UL 2075
- 8 year lifespan with built in end of life indication
- Low profile
- Walk Test mode allows for fast easy validation of sensor operation
- Reliable detection technology
- LED Alarm Indicator
- Product includes a 5 year warranty
- UUKL Listed for Smoke Control



Description

The PAD100-CD is an Analog Addressable carbon monoxide (CO) sensor compatible with any fire alarm control panel that has the Potter Addressable Device (PAD) protocol. The CO sensing portion utilizes a proven electrochemical sensor for accurate detection of CO gas for life safety applications. The sensor and base (not included) are made of a durable plastic in an off white to blend in with the ceiling.

The PAD100-CD is listed to comply with the requirements of UL 2075. The sensor and the control panel communicate over a proven and robust digital communication path and the system analyzes the information at the particular device. The total polling speed is less than five (5) seconds, well under the UL requirements.

The sensor is compatible with any of the PAD series sensor bases and simply twists on. The PAD100-CD is addressed using DIP switches in the rear of the sensor and can be easily programmed in the field without special tools.

Setting the Address

Each addressable device on the SLC loop must have a unique address from 1 to 127 to function properly. The address is set using DIP switches.

Before connecting a device to the SLC loop, take the following precautions to prevent potential damage to SLC or device. Verify the following:

1. Power to the device is removed
2. Field wiring is correctly installed.
3. Field wiring has no open or short circuits.

Technical Specifications

Operating Voltage	24 VDC
Detector Current Draw	300 μ A
Alarm indicator	1 LED
Alarm set-point range	70 ppm, 150 ppm, 400 ppm
Installation temperature range	32 to 120 °F / 0 to 49 °C
Operating relative humidity range	0% to 93% (Non-condensing)
Start-up time	Max. 1 sec.
Maximum number of addresses per loop	127
Maximum number of lighted indicators in alarm per loop	30
Color	Eggshell White
Weight (without base)	92g (3.25oz)
Dimensions (without base)	Height: 1.43 in (36mm) Diameter: 3.93 inches (100mm)

Operation

The PAD100-CD is an analog addressable sensor that uses one address on the Signaling Line Circuit (SLC) of a compatible fire alarm control panel. The unit communicates with the control panel as it is polled. The LED flashes every time the unit is polled and they will flash at a fast rate if the unit is in an active status. The polling LED can be turned off if desired for less conspicuous operation.

The PAD100-CD with the PAD100-4DB or PAD100-6DB has a low profile of less than two (2) inches to blend into the surrounding environment.

Detection Levels

The PAD100-CD will provide alarm reports at these required levels:

Alarm set-point

70 ppm for 2 hours

150 ppm for 30 min

400 ppm for 10 minutes

Compatible Bases

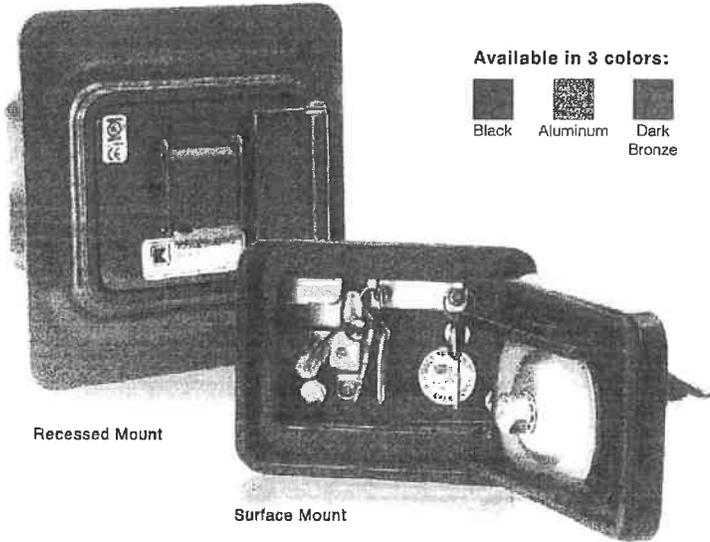
All bases will mount on a single gang, double gang, octagon, 4" square or mud ring electrical box.

Device	Description	Stock No.
PAD100-4DB	4" Standard Base	3992731
PAD100-6DB	6" Standard Base	3992732
PAD100-IB	6" base with an isolator module included.	3992730
PAD100-RB	6" base with one Form-C relay contact. 2A @ 30VDC, 0.5A @ 125VAC	3992728
PAD100-SB	6" base with sounder module included. Sound pattern is provided from external source.	3992729
PAD100-SPKB	6" base with speaker included	3992762

Ordering Information

Model	Description	Stock No.
PAD100-CD	Carbon Monoxide Detector	3992736

The KnoxBox 3200 is the number one high-security key lock box trusted by first responders and property owners. Store up to 10 keys to quickly gain rapid access to commercial properties.



FEATURES

- ✓ Stores maximum 10 keys. Access cards and small entry items may also fit in interior compartment but will reduce max key quantity.
- ✓ Built Knox-Rugged and secure: UL 1037, UL 1610, UL 1332, UL 437
- ✓ Finished with Knox-Coat® to protect four times better than standard powder coat
- ✓ Weather-resistant door gasket
- ✓ Hinged door

BENEFITS

- ✓ Allows rapid property access
- ✓ Reduces property damage
- ✓ Prevents forced entry into buildings
- ✓ Minimizes first responder injury
- ✓ Compliant to National Fire Code (NFPA, IFC, IBC)

OPTIONS

- ✓ Knox Tamper Alert connects to building's alarm system for extra security
- ✓ Mount types: Recessed and Surface
- ✓ 3 color options: Black, Aluminum, Dark Bronze

ACCESSORIES

- ✓ Multi-Purpose Switch for use on electrical doors, gates and other electrical equipment
- ✓ Recess Mounting Kit for new concrete or masonry construction
- ✓ Public Safety Labels
- ✓ Tag-Out Tamper Seals
- ✓ Key Tags
- ✓ Key Rings

ORDERING SPECIFICATIONS

To insure procurement and delivery of the KnoxBox 3200, it is suggested that following specification paragraph is used:

KnoxBox surface/recessed mount with hinged door, with/without UL Listed Knox Tamper Alert. 1/4" plate steel housing, 1/2" thick steel door with interior gasket seal and stainless steel door hinge. Box and lock UL Listed. Lock has 1/8" thick stainless steel dust cover with tamper seal mounting capability.

Exterior Dimensions: Surface Mount Body - 4"H x 5"W x 3-7/8"D
 Recessed Mount Flange - 7"H x 7"W

Lock: UL Listed. Double-action rotating tumblers and hardened steel pins accessed by a biased cut key.

Finish: Knox-Coat proprietary finishing process

Color: Black, Dark Bronze or Aluminum

P/N: KnoxBox 3200 (mfr's cat. ID)

Mfr's Name: KNOX COMPANY

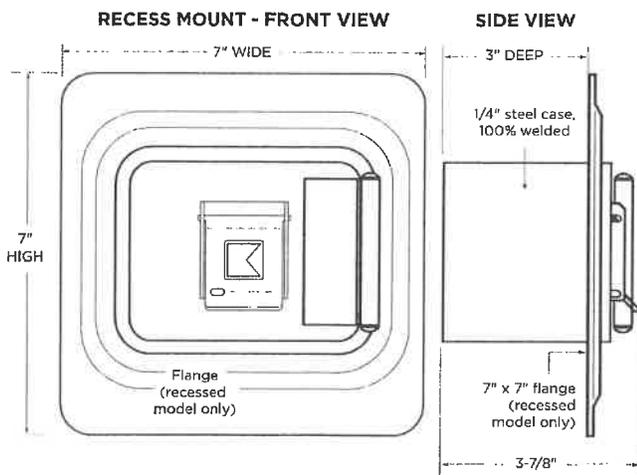
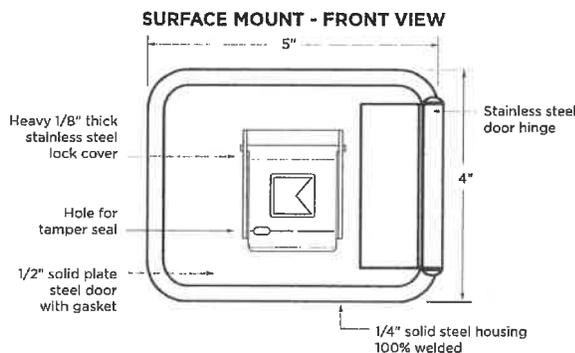


WEIGHT:

Surface Mount - 8 lbs
 Recessed Mount - 9 lbs

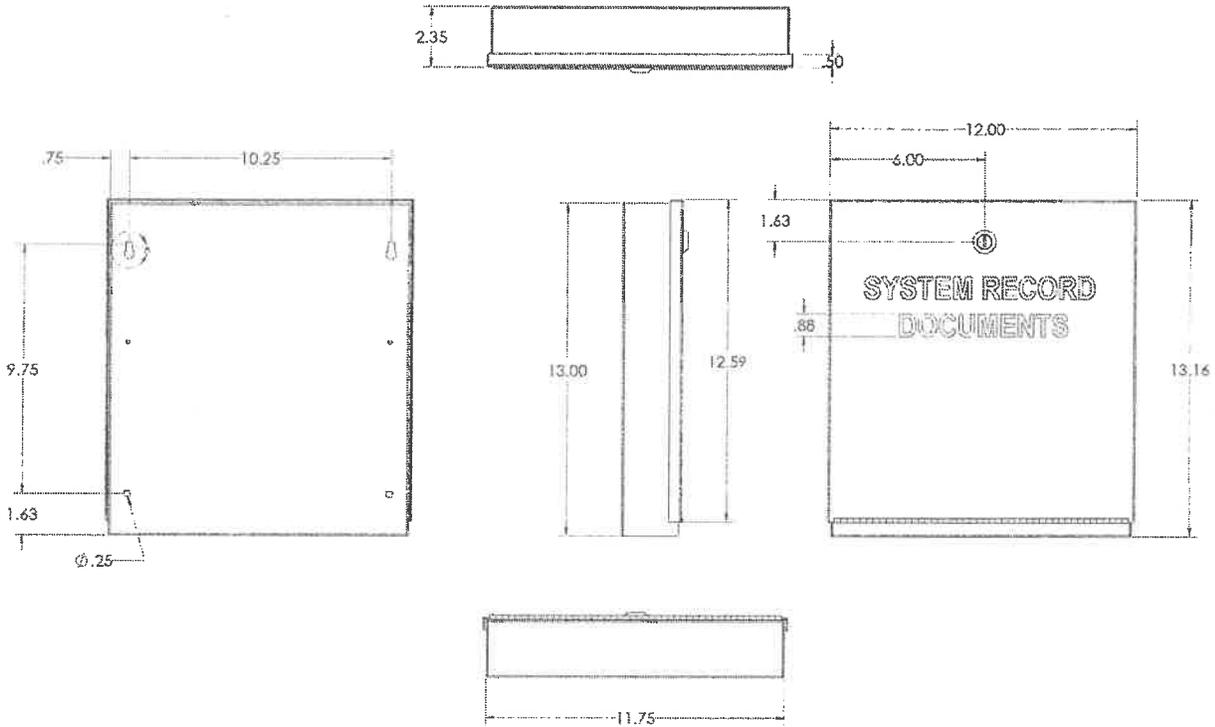
DIMENSIONS:

Surface Mount Body - 4"H x 5"W x 3-7/8"D
 Recessed Mount Flange - 7"H x 7"W





DIMENSIONS



ORDERING INFORMATION

P/N# SSU00689

SRD System Record Documents Box - Red

P/N# SSU00690

SRD System Record Documents Box - Red with your custom screened logo

P/N# SSU01689

SRD System Record Documents Box - Black

P/N# SSU01690

SRD System Record Documents Box - Black with your custom screened logo

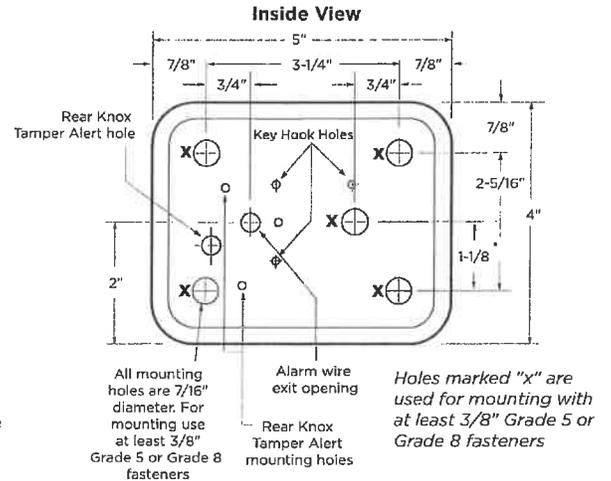
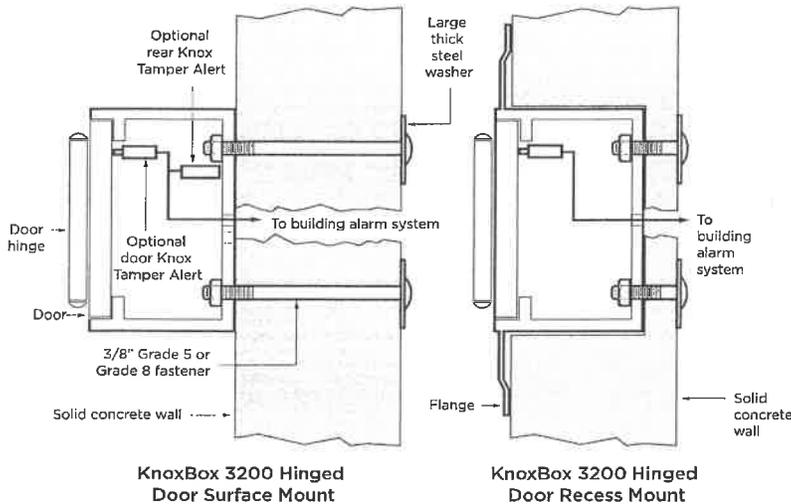
P/N# SSU00616

DCD Computer Desk Kit

GENERAL MOUNTING INSTRUCTIONS

Suggested minimum mounting height,
6 feet above ground.

ATTENTION: KnoxBox is a very strong device that **MUST** be mounted properly to ensure maximum security and resist physical attack.

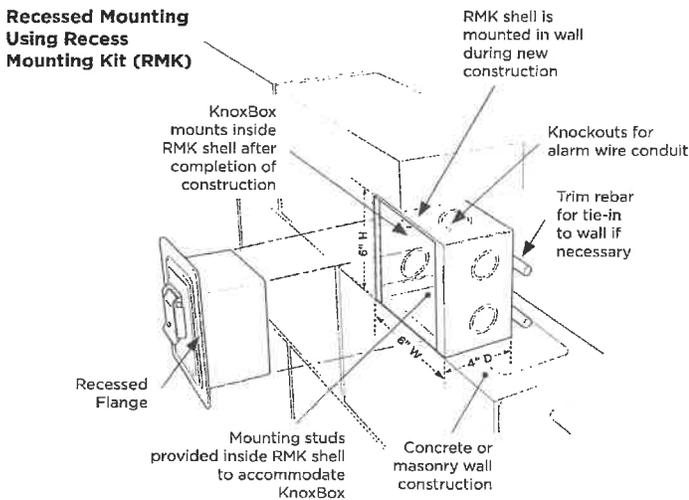


RECESS MOUNTING KIT AND INSTALLATION INSTRUCTIONS

The Recess Mounting Kit (RMK) includes shell housing and mounting hardware, which may only be used for recessed models to cast-in-place within new concrete or masonry construction. The KnoxBox is mounted into the shell housing after construction is completed.

RECESS MOUNTING KIT DIMENSIONS

Rough-in Dimensions:
6-1/2"H x 6-1/2"W x 5"D



IMPORTANT:
Care should be taken to ensure the front of the Recess Mounting Kit (RMK) shell housing, including the cover plate and screw heads, is flush with the wall. The RMK must be plumbed to ensure vertical alignment of the box.

ABOUT KNOX COMPANY

Over forty years ago, a unique concept in rapid access for emergency response was born. The KnoxBox®, a high-security key lock box, was designed to provide rapid access for emergency responders to reduce response times, minimize injuries and protect property from forced entry.

Today, one revolutionary lock box has grown into a complete system providing rapid access for public safety agencies, industries, military, and property owners across the world. The Knox Company is trusted by over 14,000 fire departments, law enforcement agencies, and governmental entities.

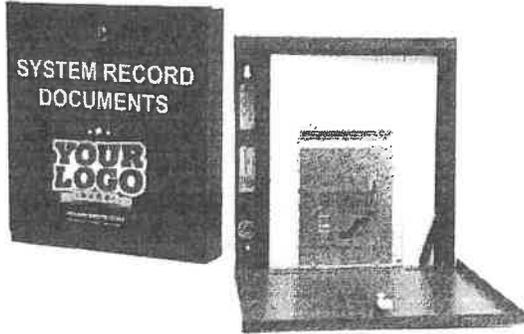
KNOX COMPANY
1601 W. DEER VALLEY RD
PHOENIX, AZ 85027

T. 800.552.5669
F. 623.687.2290

KNOXBOX.COM
INFO@KNOXBOX.COM

ACERBOX

BY SPACE AGE ELECTRONICS



SRD ACE-11 System Record Documents

Store important system documents in a secure location with a cabinet built specifically to meet the requirements of NFPA 72 7.7.2.4.

The number one goal at Space Age is to manufacture code compliant solutions, and the SRD is just that. NFPA 72 7.7.2.1 states, "With every new system, a documentation cabinet shall be installed at the system control unit or other approved location at the protected premises."

The SRD includes our innovative 8GB flash drive slide tab that allows the user to select a USB-C or Micro USB connector to access records electronically (See NFPA 72 7.5.6.7).

FEATURES

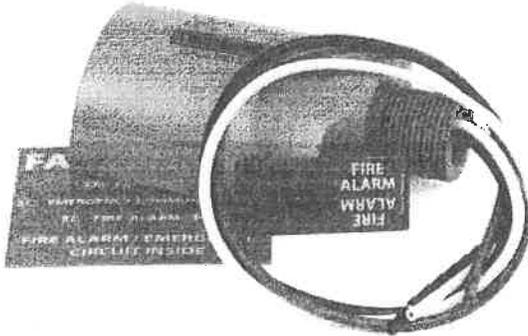
- 18 gauge cold rolled steel construction with red powder coat and white lettering
- Dimensions are 12" wide x 13" tall and 2 1/4" deep
- Stainless steel piano hinge
- Two key ring hooks to hold system keys
- Business card holder for key contacts
- Slide tab allows user to select USB-C or Micro USB connector to download from 8GB digital flash memory
- DCD Computer Desk Kit (sold separately) holds enclosure door open at a 90 degree angle with a snap on cable for a convenient working surface in the field. Includes velcro strap for securing your laptop.

SPECIFICATIONS

The SRD System Record Documents Box shall be UL Listed, constructed of 18 gauge cold rolled steel. It shall have a powder coat finish. The cover shall be permanently screed with 1" high lettering "SYSTEM RECORD DOCUMENTS" with white indelible ink. The access door shall be locked with a 3/4" barrel lock and there will be a 12" stainless steel piano hinge. The SRD will have a minimum of 8 gigabyte digital flash memory drive with a slide tab that allows user to select USB-C or Micro USB connector for uploading and downloading information. The enclosure will supply 4 mounting holes. Inside will accommodate standard 8 1/2" x 11" manuals and document records. A legend sheet will be attached to the door for system required documentation, key contacts and system information. The enclosure shall also provide 2 key ring holders with a location to mount standard business cards for key contact personnel.

CUSTOM COLORS AND BRANDING AVAILABLE





An ideal choice for your 120VAC applications, the E120V-GT maintains system integrity and protects against transients introduced into electrical lines via poor atmospheric and utility conditions as well as internally generated inductive loads.

Not only is the E-120V-GT robust enough to absorb a spike, but to also clamp long enough to trip the branch circuit breaker and still be functional for additional surges. Reduce downtime associated with power surges and lightning strikes, prevent interruption of recurring monthly revenue based systems, and eliminate non-billable service calls and expensive repairs by protecting your equipment with this invaluable device.



Features

- 120 VAC
- 10KA Short Circuit Current Rating
- ANSI/UL Listed 1449 4th Edition, Type 2
- CSA C22.2 No. 269.2-17 2nd edition, Type 2
- Acerbox ELOCK Circuit Lockout Kit included per NFPA 72 2013 10.6.5.2
- Surface or conduit mounting
- Diagnostic indicator light
- Self restoring
- 3 Wire device (18" length)



Applications

- Fire alarm control panels
- Mass notification systems
- Dedicated branch circuits
- Amplifiers, motors, pumps, and power boosters

Specifications

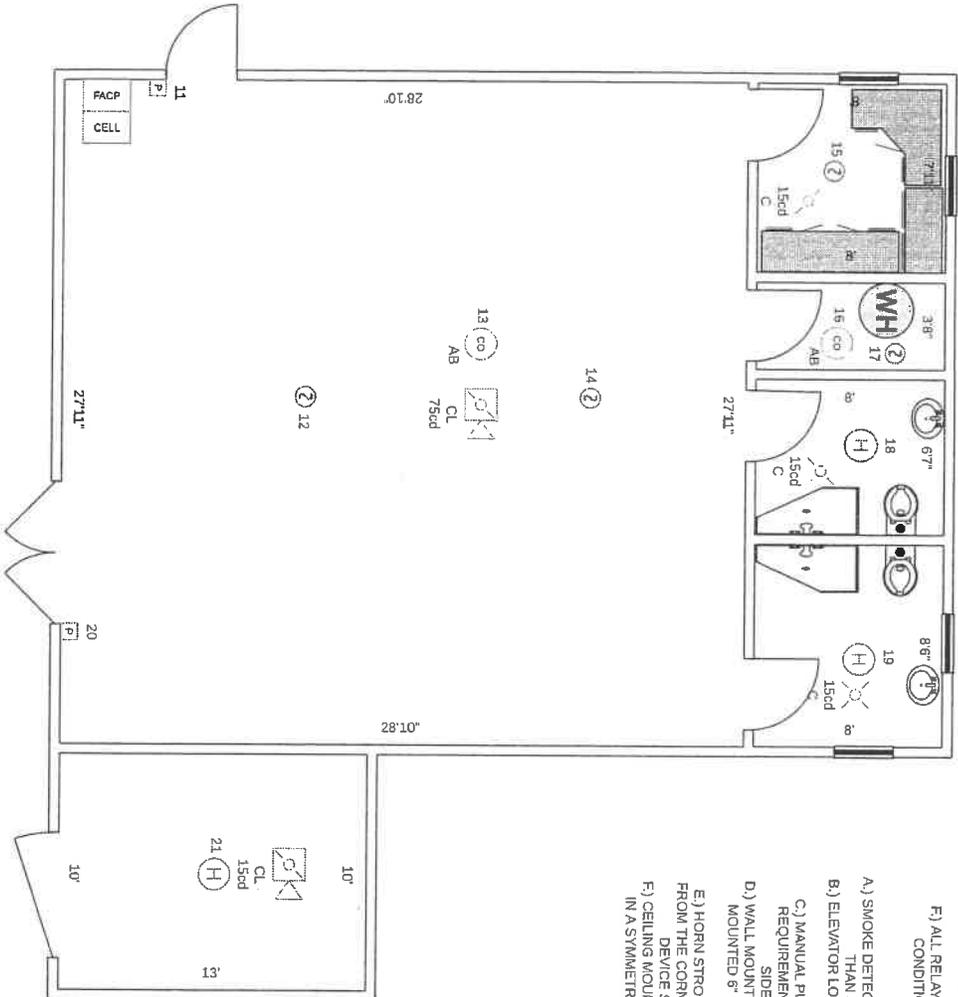
All 120 VAC equipment will have Transient Voltage Surge Suppression (TVSS) protection manufactured by Space Age Electronics, Inc., part number E120V-GT. The unit shall be ANSI/UL listed to standard 1449, 4th edition and will be labeled clearly with indelible ink. Can be attached via the 3/4" rigid coupling, or surface mounted via the 2 external mounting holes. The unit shall have thermal fuses to protect against fire in short circuit conditions and will have 18" long, 14 gauge wires (3x) with a green ground wire. The enclosure will be a non dielectric material UL94 QMFZ2/8 grade material providing UV protection. The unit shall provide visual indication (LED) that unit is protecting and functioning.

GENERAL NOTES

- A.) FIRE ALARM SYSTEM WIRING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE, APPLICABLE STATE AND LOCAL CODES AND SHALL BE COORDINATED WITH THE LOCAL AUTHORITY HAVING JURISDICTION.
- B.) CAUTION: DO NOT CONNECT ANY POWER TO THE CONTROL PANEL (BATTERIES OR 120VAC) UNTIL ALL FIELD WIRING HAS BEEN TESTED.
- C.) DO NOT INSTALL FIRE ALARM CONTROL PANEL OR ANY ADDRESSABLE DEVICES IN UNHEATED SPACE.
- D.) DO NOT INSTALL ANY AC CURRENT CARRYING CONDUCTORS CLOSE TO OR IN THE SAME RACEWAY WITH FIRE ALARM SYSTEM CONDUCTORS.
- E.) SOLID LINES REPRESENT CONNECTIONS MADE BY THE SYSTEM INSTALLER.
- F.) ALL RELAYS ARE SHOWN IN NORMAL SUPERVISORY CONDITION. ALL RELAYS ARE FORM "C" TYPE.

INSTALLATION NOTES

- A.) SMOKE DETECTORS SHALL NOT BE MOUNTED ANY CLOSER THAN 3" FROM ANY AIR DUCT OPENINGS.
- B.) ELEVATOR LOBBY SMOKES SHALL BE MOUNTED WITHIN 10' OF THE ELEVATOR DOOR.
- C.) MANUAL PULL STATIONS SHALL BE MOUNTED PER ADA REQUIREMENTS: 48" AFF OR 42" AFF TO COMPLY WITH SIDE/FRONT REACH REQUIREMENTS.
- D.) WALL MOUNTED HORN STROBES AND STROBES SHALL BE MOUNTED 6" FROM CEILING, OR 96" TO 80" AFF TO THE CENTER OF THE STROBE.
- E.) HORN STROBES AND STROBES SHALL BE MOUNTED 15" FROM THE CORNER OF THE WALL, IF THIS IS NOT POSSIBLE, DEVICE SHALL BE CENTERED ON THAT WALL.
- F.) CEILING MOUNTED HALLWAY DEVICES SHALL BE LOCATED IN A SYMMETRICAL MANNER DOWN THE CENTER OF THE HALLWAY WHEN POSSIBLE.



PROTECTION PROFESSIONALS

DATE: 7/12/2020
 REVISION: 1.0

703 ROOSEVELT TRAIL
 NAPLES MAINE 04055

FIRE ALARM LAYOUT

SCALE: NS

SHEET: 1 OF 3

DESIGNER: PROTECTION PROFESSIONALS



	CO RF WIRELESS		IB BASE
	SMOKE RF SINGLE		HEAT RF WIRELESS
	INPUT MODULE		STROBE
	HEAT BASE		HORN
	HEAT DETECTOR		HORN STROBE
	DUAL MODULE		WEATHER HORN
	MANUAL PULL STATION		WEATHER HORN HORN
	CO DETECTOR		CEILING MOUNT HORN
	MICRO MODULE		SPRINKLER STROBE
	SMOKE DETECTOR		SPRINKLER TAMPER SWITCH
	RELAY MODULE		SPRINKLER WATERFLOW SWITCH
	ISOLATOR MODULE		



REPRODUCTION OF THIS DOCUMENT IS NOT PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF PROTECTION PROFESSIONALS



IPA-60
Battery & Voltage Drop
Calculations

Project Name: SMARTIES BUILDING 2 Standby Hours: 24
 Alarm Mins: 5
 Installed By: PROTECTION PROFESSIONALS Batt Efficiency: 80%
 Designed By: PROTECTION PROFESSIONALS SLC Type: Class B
 Date: 7/2/2020 NAC Source Voltage: 20.4

Model #: IPA-60

Max Panel Current (amps): 5

Panel ID: _____

User assumes all responsibility to ensure the quantities and current draw values in this worksheet are accurate prior to submittal.

Location: MAIN ENTRANCE BY ELECTRICAL PANEL

Qty	Part #	Description	Standby (amps)		Alarm (amps)	
			Each	Total	Each	Total
1	IPA-60	Analog Addressable FACP	0.130	0.130	0.220	0.220
			Panel Standby:	0.130	Panel Alarm:	0.220

P-LINK (RS-485)			Standby	Alarm
	MC-1000	Multi-Connect Expander	0.010	0.010
1	UD-1000	DACT Card	0.016	0.023
	RA-6075R	LCD Annunciator	0.020	0.025
	RA-6500R(F)	Flush Mount LCD Annunciator	0.020	0.050
	LED-16(F)	Flush Mount LED Annunciator	0.025	0.025
	LED-16	LED Annunciator LED Power*	0.015	0.210
	CA-6075	Class A Module	0.012	0.044
	PSN-1000(E)	Power Expander	0.015	0.015
	PAD100-SLCE-127	SLC Expander	0.060	0.060
	NOHMI-SLCE-127*	SLC Expander	0.060	0.060
	RLY-5	Relay Expander	0.025	0.035
	RLY-5	Relay Expander Power*	0.010	0.135
	DRV-50	LED Driver Module	0.025	0.025
	DRV-50	LED Driver Module LED Power*	0.010	0.215
	FCB-1000	Fire Communications Bridge	0.025	0.025
	FIB-1000	Fiber Interface Board	0.030	0.030
	SPG-1000	Serial Parallel Gateway	0.040	0.040

*** REQUIRED IF USING NOHMI PROTOCOL SLC DEVICES**

(Maximum current draw on P-Link limited to 1 Amp)

P-LINK Standby: 0.016 P-LINK Alarm: 0.023

**Only enter quantity if PLINK power is being used to power devices*

SLC Devices			Standby	Alarm
4	PAD100-PD	Analog Photo Smoke	0.000300	0.000300
	PAD100-PHD	Analog Photo Smoke/Heat	0.000300	0.000300
3	PAD100-HD	Analog Fixed Temp Heat	0.000300	0.000300
2	PAD100-CD	Analog Carbon Monoxide Detector	0.000300	0.000300
	PAD100-DUCT	Addressable Duct Detector	0.000300	0.000300
	PAD100-DRTS	Duct Remote Test Switch	0.010000	0.015000
	PAD100-DUCTR*	Addressable Duct Detector w/Relay	0.000500	0.000500
2	PAD100-PSSA/PSDA	Addressable Pull Station Single/Dual Action	0.000200	0.000200
	PAD100-MIM	Micro Input Module	0.000200	0.000200
	PAD100-SIM	Single Input Module	0.000240	0.000240
	PAD100-DIM	Dual Input Module	0.000240	0.000240
	PAD100-RM	Relay Module	0.000240	0.000240
	PAD100-OROI	One Relay One Input Module	0.000240	0.000240
	PAD100-TRTI	Two Relay Two Input Module	0.000240	0.000240
	PAD100-ZM*	Conventional Zone Module	0.000240	0.000240
	PAD100-NAC*	Notification Appliance Circuit	0.000200	0.000200
	PAD100-SM	Speaker Module	0.000240	0.000240
	PAD100-IM	Isolator Module	0.000150	0.000150
	PAD100-LED	LED Module	0.000240	0.000240
	PAD100-LEDK	Addressable LED w/ Key Switch	0.000200	0.000200
2	PAD100-SB*	Addressable Sounder Base	0.000200	0.000200
2	PAD100-RB	Addressable Relay Base	0.000200	0.000200
	PAD100-IB	Addressable Isolator Base	0.000150	0.000150
	PSA	Analog Photo Smoke	0.000325	0.000325
	PSHA	Analog Photo Smoke/Heat	0.000325	0.000325
	RHA	Analog Rate of Rise Heat	0.000325	0.000325
	FHA	Analog Fixed Temp Heat	0.000325	0.000325
	DDA	Addressable Duct Detector	0.000325	0.000325
	APS-SA/APS-DA	Addressable Pull Station Single/Dual Action	0.000325	0.000325
	MCM	Mini Contact Input Module	0.000325	0.000325
	SCM-4	Single Contact Input Module	0.000325	0.001000
	DCM-4	Dual Contact Input Module	0.000325	0.001000
	TRM-4	Twin Relay Output Module	0.000325	0.001000
	CIZM-4 *	Conventional Zone Input Mod	0.000325	0.001000
	MOM-4 *	Monitored Output Module	0.000325	0.001000
	ARB *	Detector Base w/Relay	0.000325	0.000325
	ASB *	Detector Base w/Sounder	0.000325	0.000325
	SCI **	Short Circuit Isolator (Class A)	0.000325	0.002340
	AIB **	Detector Base w/Isolator (Class A)	0.000325	0.002340
	IM/IB/SCI/AIB Class B **	Current Draw from Install Manual		

	SLC Loop Alarm LED Current	0.000000	0.000000	0.036000	0.036000
* Requires Aux Power (Configure Below)					
** See the installation manual for special considerations when installing AIB, SCI devices on Class B loops.		SLC Standby:	0.003500	SLC Alarm:	0.003500

NAC Circuits (See NAC Configuration below)			Standby (amps)	Alarm (amps)
Ckt	Use	Description	Total	Total
1	Notification	AV DEVICES	0.00000	0.65300
2	Aux Power	CO AUDIBLE BASES	0.00800	0.06000
			NAC Standby: 0.00800	NAC Alarm: 0.71300

I/O Circuits (See I/O Configuration below)			Standby (amps)	Alarm (amps)
Ckt	Use	Description	Total	Total
1	Unused		0.00000	0.00000
2	Unused		0.00000	0.00000
			I/O Standby: 0.00000	I/O Alarm: 0.00000

Battery Calculation Summary			Standby (amps)	Alarm (amps)
Panel Current:			0.13000	0.22000
P-Link Current:			0.01600	0.02300
SLC Device Current:			0.00350	0.00350
NAC Circuit Current:			0.00800	0.71300
I/O Circuit Current:			0.00000	0.00000
Total Standby:			0.157500	Total Alarm: 0.959500
Standby Hours:			24	Alarm Mins: 5
AH Required:			3.78	AH Required: 0.08
Total Combined Standby & Alarm AmpHours Required:			3.86	
Efficiency Factor:			80%	
Required Battery AmpHours:			4.83	
Battery AmpHours Provided:			7AH	

Note: The cabinet will house two 8 AH or 18 AH batteries. The charging circuit is rated for up to two 55 AH batteries.

SLC Loop Type: Class B
 Device Addresses Used: [REDACTED]
 Device Addresses Available: 60

I/O 1		MAX Circuit Current (amps): 1			Source Voltage Used (VDC): 20.4		
Usage: <input type="text" value="Unused"/>		Description: <input type="text"/>					
Wire Type	Ohms/1000ft	Length (Ways)	Actual Ohms	Max Load (amp)	Volts @ EOL	Min Volts Req'd	
#14 Solid	2.5		0.000	0.000	20.40	16	
Circuit Devices		Standby (amps)		Alarm (amps)			
Qty	Lookup Type	Desc	Each	Total	Each	Total	
		User can add devices on the fly to these bottom 5 rows (No lookup function)					
			Total Standby:	0.00000	Total Alarm:	0.00000	

I/O 2		MAX Circuit Current (amps): 1			Source Voltage Used (VDC): 20.4		
Usage: <input type="text" value="Unused"/>		Description: <input type="text"/>					
Wire Type	Ohms/1000ft	Length (Ways)	Actual Ohms	Max Load (amp)	Volts @ EOL	Min Volts Req'd	
#14 Solid	2.5		0.000	0.000	20.40	16	
Circuit Devices		Standby (amps)		Alarm (amps)			
Qty	Lookup Type	Desc	Each	Total	Each	Total	
		User can add devices on the fly to these bottom 5 rows (No lookup function)					
			Total Standby:	0.00000	Total Alarm:	0.00000	