



FIRE PROTECTION, INC.

28741 South Diesel Drive
Bonita Springs, FL 34135
(239) 514-7155 (Fax) 514-7154
Lic #19672900011997 Lic #EC13005314

We respectfully submit the following letter for a
fire alarm control panel motherboard replacement.

October 18, 2021

To: Collier County Development Services
2800 North Horseshoe Dr
Naples, FL

Job: Marquesa Royale @ Tiburon
2538 Marquesa Royale Ln.
Naples, FL 34109

- 1) This is a modification to an existing fire alarm system.
- 2) All design, materials, modifications & installation by Naples Fire Protection, Inc. shall be per NFPA 72, 2016 Edition as well as all
- 3) The scope of work for this project is as follows:
 - a) Replace (1) Silent Knight SK-5700 motherboard.
There is an existing smoke detector located above the fire alarm control panel.
 - b) Replace (1) Ditek surge suppressor.
 - c) Provide (2) new 7AH batteries.

Sincerely,

Shaine Bravo
Designer



**SILENT
KNIGHT**

by Honeywell

IntelliKnight® Model 5700 Single Loop Addressable Fire Alarm Control System

**The affordable addressable fire
alarm control panel solution.**

IntelliKnight Model 5700 is a class leading single loop addressable fire alarm control/communicator system. 5700 provides you with the revolutionary value and performance of addressable sensing technology combined with exclusive, built-in digital communication, distributed intelligent power, that includes an easy to use interface. Powerful features such as drift compensation and maintenance alert are delivered in this powerful FACP from Silent Knight.

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

Description

The basic IntelliKnight 5700 system can be enhanced by adding modules such as 5860 remote annunciator, 5824 serial/parallel printer interface module (for printing system reports), and 5496 intelligent power module. 5700 supports SD or SK devices. 5700 also features a powerful built-in dual line fire communicator that allows for reporting of all system activity to a remote monitoring location.

Features

- Built-in support for up to 50 SK detectors *and* 50 SK modules creating a total point capacity of 100 points
- Built in support for up to 50 SD devices
- Up to 125 zones and 125 output groups
- Uses standard wire—no shielded or twisted pair required
- Built-in digital communicator
- Central station reporting by point or by zone
- Supports Class B (Style 4) and Class A (Style 6 or 7) configuration for SLC
- Drift compensation
- 13 pre-programmed output cadences (including ANSI-3.41) and 4 programmable outputs
- Notification circuits configurable as 1 Class A (Style Z) or 2 Class B (Style Y), or auxiliary power for resettable, constant, or door holder power
- Built-in synchronization for AMSECO, Gentex®, Faraday, System Sensor® and Wheelock® appliances
- Built-in annunciator with 80-character LCD display
- RS-485 bus provides communication to system accessories
- Upload or download programming, event history, or detector status onsite or from a remote location using a PC and 5660 Silent Knight Software Suite (SKSS)
- Two built-in Form C programmable relays rated at 2.5A at 27.4 VDC



Model 5700

- Improvements in SKSS deliver five times faster upload/downloads
- Built-in RS-232 interface for programming via PC
- Built-in Form C trouble relay rated at 2.5A at 27.4 VDC
- Programmable date setting for Daylight Saving Time

Compatibility

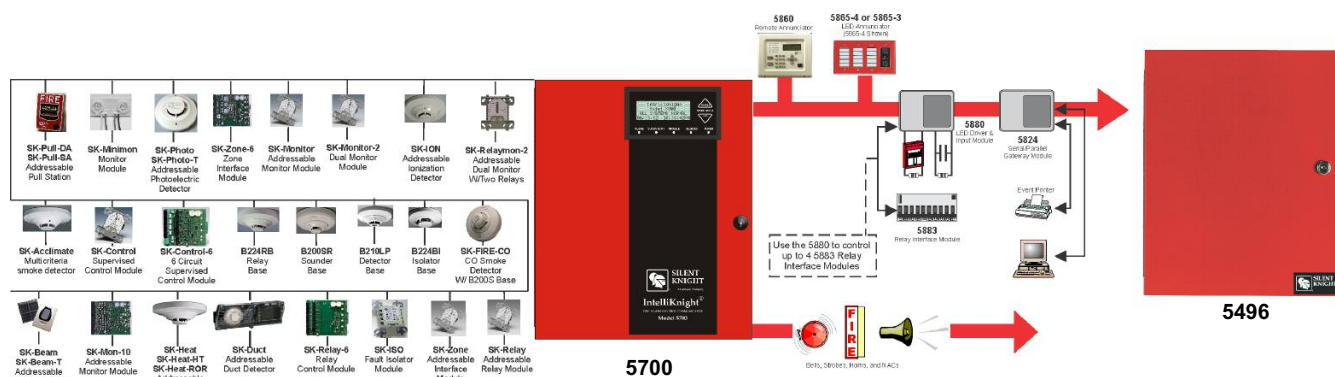
The 5700 signal line circuit (SLC) supports multiple device types of the *same* protocol:

- SK
- SD

You cannot mix SD and SK SLC devices on a FACP.

Model 5700

Fire Alarm Control Panel



Specifications

Electrical

Primary AC: 120 VAC, 60 Hz, 1.5A
Total Accessory Load: 2.5A @ 27.4 VDC
Notification Power: 2.5A @ 27.4 VDC,
power-limited

Standby Current: 200 mA

Alarm Current: 365 mA

Notification/Aux Power Circuits:

2.5A @ 27.4 VDC per circuit,
power-limited
Battery Charging Capacity: 7.0-35.0 AH
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)

Listings

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

Other Approvals: UL Listed;
CSFM 7170-0559: 144; MEA 429-92-E Vol.
XVI; OSHPD (CA) OSP-0065-10

S-BUS Accessories

5860/R Remote Fire Annunciator

Features the same 80 character backlit LCD display keypad and firefighter's key switch as the 5700. The system can be fully programmed and operated from any 5860. 5860 is gray and 5860R is red.

5496 Intelligent Power Module

A 6 amp notification power expander that provides four additional power-limited notification appliance circuit outputs.

5880 LED/IO Module

Features 40 LED outputs, 8 normally open dry contact inputs and one piezo output.

5865-3 and 5865-4 Remote LED Annunciator

Features 30 Programmable LED (15 red and 15 yellow) outputs and a piezo sounder. The 5865-4 adds a silence and reset switch to the package.

5883 Relay Board

Features 10 general purpose Form C relays.
Used with 5880 module.

5824 Serial/Parallel Printer Interface Module

Interface module
Provides one parallel and one RS-232 serial port for connecting a printer to 5808. Use to print a real-time log of system events, detector status reports, and event history. Interfaces with building control system.

Miscellaneous Accessories

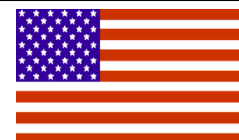
5660 Silent Knight Software Suite

User-friendly Windows software for remote programming of 5700s using a PC. Upload and view panel account information, event history, and detector status.



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. For Technical Support, Please call 800-446-6444.

www.silentknight.com



Assembled In America



DTK-HW Series

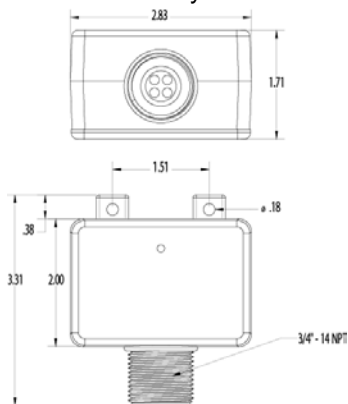
Equipment Panel/Dedicated Circuit Surge Protective Device General Product Specifications

DITEK's HW series of surge protectors are designed and manufactured to meet the exacting standards of the life safety industry. These compact parallel mount surge protectors are widely used to protect fire alarm panels and other dedicated branch circuit loads.

DTK-120HW DTK-120/240HW

Product Features

- Available for Popular 120V and 120/240V systems
- DTK-120HW approved for 20A circuit breakers
- Diagnostic LED indicates ground presence, system power and SPD function
- Weatherproof enclosure
- Small footprint enables installation in a variety of locations
- Available for popular 120V, and 120/240V systems
- Complies with ANSI/IEEE C62.41 and C62.45 Category B standards
- Ten Year Limited Warranty



Specifications

Agency Approvals: UL 1449, 3rd Edition, cUL

IEEE Location Category: Category B

Protector Type: SPD Type 2

Protection Modes: L-G, L-N, N-G

Response Time: <1ns

Temperature Range: -40°F – 185°F (-40°C – 85°C)

Maximum Humidity: 95% non-condensing

Operating Frequency: 0Hz – 400Hz

Dimensions: 2.93" x 2.83" x 1.68"
(74.4mm x 71.9mm x 42.7mm)

Connection: 3/4" diameter threaded fitting

Weight: .5lb. (227g)

Housing: ABS

Model Selection: DTK-	Service Wiring	Peak Surge Current	MCOV	UL 1449, 3 rd Ed. V.P.R.	Short Circuit Current Rating	UL1449, 3 rd Ed. I _n Rating
120HW	Single Φ (2W + G), 120VAC	19,500A	130V	700V L-N, L-G; 600V N-G	10,000A	3,000A
120/240HW	Split Φ (3W + G), 120/240VAC	13,000A/ Phase 6,500A/ Mode	130/260V	700V L-N, L-G; 600V N-G; 1200V L-L	10,000A	3,000A





PS-1270 12 Volt 7.0 AH

Rechargeable Sealed Lead Acid Battery

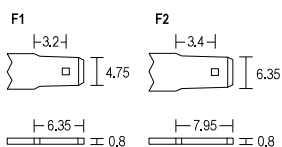


We've Got The Power.™

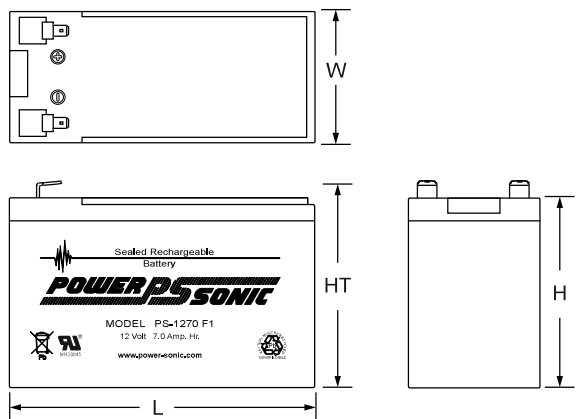


Terminals (mm)

- F1 - Quick disconnect tabs, 0.187" x 0.032" - Mate with AMP. INC. FASTON "187" series — OR —
- F2 - Quick disconnect tabs, 0.250" x 0.032" - Mate with AMP. INC. FASTON "250" series



Physical Dimensions: in (mm)



L: 5.95 (151) W: 2.56 (65) H: 3.70 (94) HT: 3.86 (98)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

Features

- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- Power/volume ratio yielding unrivaled energy density
- Rugged impact resistant ABS case and cover (UL94-HB)
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L. recognized under file number MH 20845

Performance Specifications

Nominal Voltage 12 volts (6 cells)

Nominal Capacity

20-hr. (350mA to 10.50 volts)	7.00 AH
10-hr. (650mA to 10.50 volts)	6.50 AH
5-hr. (1.2A to 10.20 volts)	6.00 AH
1-hr. (4.5A to 9.00 volts)	4.50 AH
15-min. (14A to 9.00 volts)	3.50 AH

Approximate Weight 4.80 lbs. (2.18 kg)

Energy Density (20-hr. rate) 1.49 W-h/in³ (90.95 W-h/l)

Specific Energy (20-hr. rate) 17.50 W-h/lb (38.58 W-h/kg)

Internal Resistance (approx.) 23 milliohms

Max Discharge Current (7 Min.) 21.0 amperes

Max Short-Duration Discharge Current (10 Sec.)..... 70.0 amperes

Shelf Life (% of nominal capacity at 68°F (20°C))

1 Month	97%
3 Months.....	91%
6 Months	83%

Operating Temperature Range

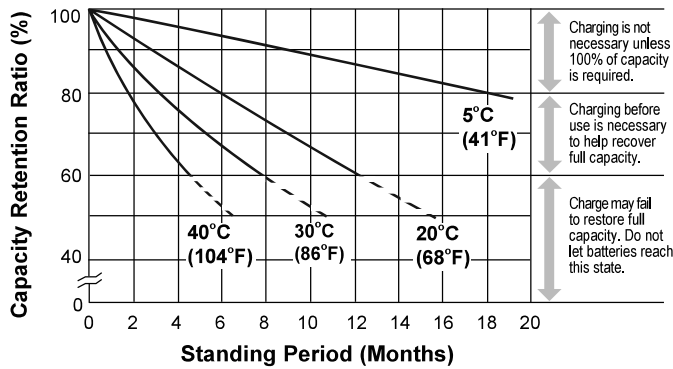
Charge.. -4°F (-20°C) to 122°F (50°C)

Discharge..... -40°F (-40°C) to 140°F (60°C)

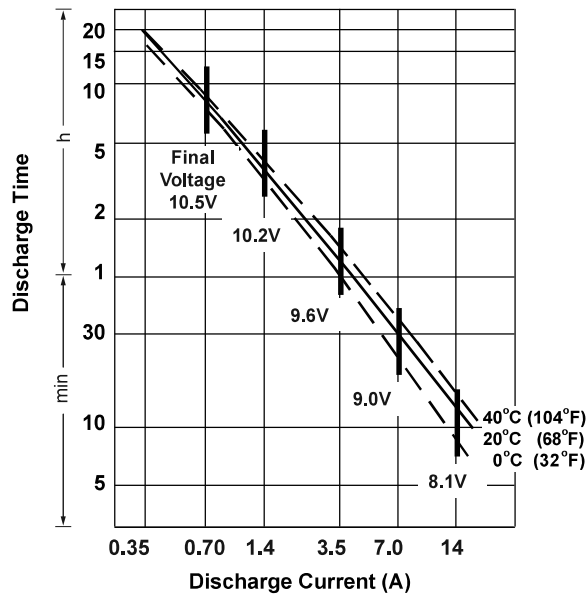
Case ABS Plastic

Power-Sonic Chargers PSC-12800A, 12800A-C

Shelf Life & Storage



Discharge Time vs. Discharge Current



Charging

Cycle Applications: Limit initial current to 2.1A. Charge until battery voltage (under charge) reaches 14.4 to 14.7 volts at 68°F (20°C). Hold at 14.4 to 14.7 volts until current drops to under 70mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

"Float" or "Stand-By" Service: Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

Note: Due to the self-discharge characteristics of this type of battery, it is imperative that they be charged within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

Chargers

Power-Sonic offers a wide range of chargers suitable for batteries up to 100AH. Please refer to the Charger Selection Guide in our specification sheets for "C-Series Switch Mode Chargers" and "Transformer Type A and F Series". Please contact our Technical department for advice if you have difficulty in locating suitable models.

Contact Information

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Fax: +1-619-661-3650
national-sales@power-sonic.com

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Tel: +1-619-661-2030
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TECHNICAL SUPPORT

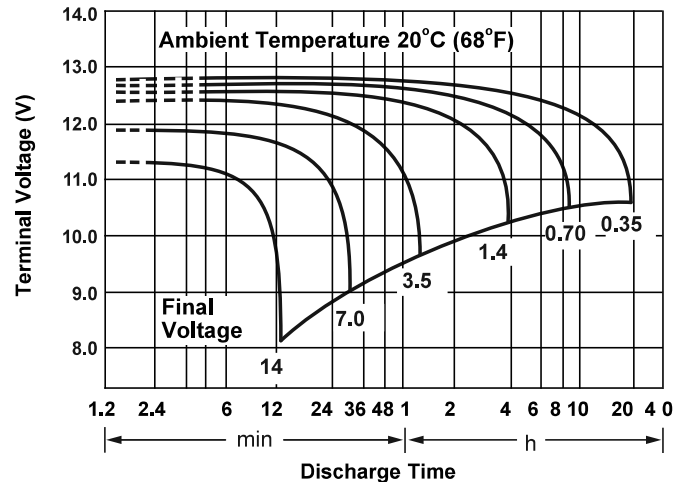
Tel: +1-619-661-2020
Fax: +1-619-661-3648
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INTERNATIONAL SALES

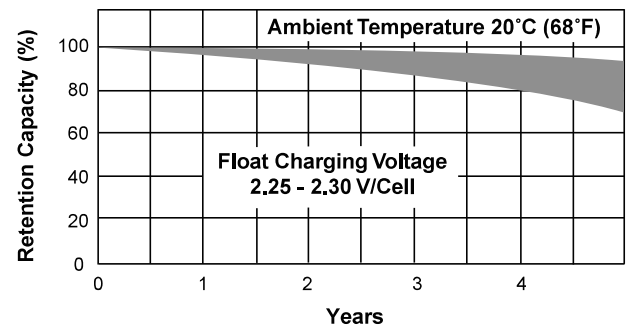
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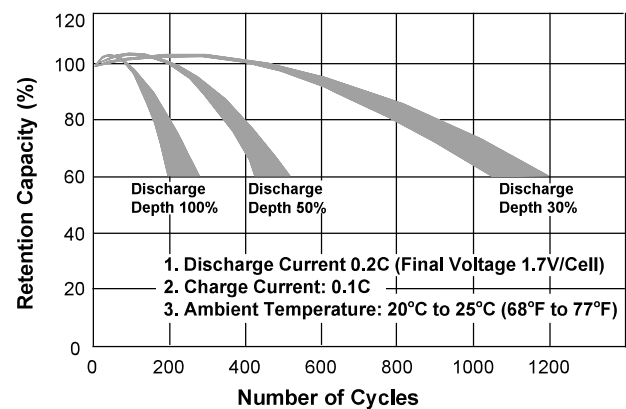
Discharge Characteristics



Life Characteristics in Stand-By Use



Life Characteristics in Cyclic Use



Further Information

Please refer to our website www.power-sonic.com for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc..