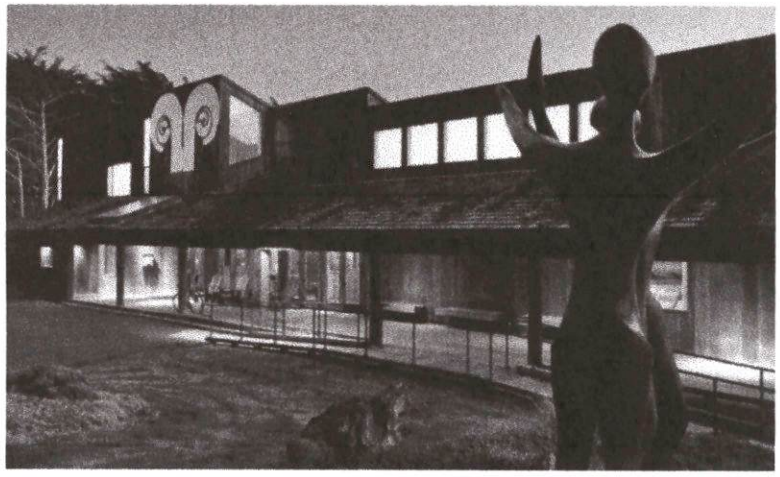
ALL·GUARD
COMMERCIAL & RESIDENTIAL SECURITY SYSTEMS



THE SEA RANCH LODGE RESTAURANT
60 SEA WALK DRIVE
SEA RANCH, CA 95497

WATERFLOW MONITORING
FIRE ALARM

LICENSED ELECTRICAL CONTRACTOR
ALL-GUARD ALARM SYSTEMS INC.
C-7 C10-398874
EXP. 02/28/21
STATE OF CALIFORNIA

Randall Green
Security Consultant
rgreen@allguardsystems.com
707 410-8876

ALL·GUARD
COMMERCIAL & RESIDENTIAL SECURITY SYSTEMS

County of Sonoma PRMD
Fire Prevention
Robert O'Dell
2550 Ventura Avenue
Santa Rosa, CA 95403

February 14, 2020

Dear Robert,

We are requesting a Permit to install a new Waterflow Monitoring Fire Alarm at the Sea Ranch Lodge Restaurant at 60 Sea Walk Drive, The Sea Ranch, CA 95497.

Cut Sheets and CSFM Listing are attached.

Please contact me with questions or comments.

Best regards,

Randall

Randall Green
All-Guard Alarm Systems, Inc
707 410-8876
rgreen@allguardsystems.com
www.allguardsystems.com

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 09/25/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Phone: (707) 469-6776 Fax: (707) 469-8072 ECLIPSE MARKETING & INSURANCE SERVICES P O BOX 6480 VACAVILLE CA 95696 Agency Lic#: 0D60747	CONTACT NAME: Eclipse Marketing & Insurance Services PHONE (A/C, No, Ext): (707) 469-6776 FAX (A/C, No): (707) 469-8072 E-MAIL ADDRESS:
INSURED ALL GUARD ALARM SYSTEMS, INC. AG SECURITY SERVICES, INC. 1306 STEALTH STREET LIVERMORE CA 94551	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A : Philadelphia Indemnity Ins. Co. INSURER B : Everest Premier Ins. Co. INSURER C : INSURER D: INSURER E : INSURER F :

COVERAGES **CERTIFICATE NUMBER:** 108463 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR X Errors & Omissions GEN'L AGGREGATE LIMIT APPLIES PER: POLICY PRO-JECT LOC OTHER:			PHPK2040987	10/01/19	10/01/20	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurence) MED. EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG 	$ 1,000,000 $ 100,000 $ 5,000 $ 1,000,000 $ 3,000,000 $ 3,000,000 $
A	AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS			PHPK2040987	10/01/19	10/01/20	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (per accident) 	$ 1,000,000 $ $ $ $
A	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION $			PHUB694602	10/01/19	10/01/20	EACH OCCURRENCE AGGREGATE 	$ 5,000,000 $ 5,000,000 $
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		5300003577-191	10/01/19	10/01/20	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE-EA EMPLOYEE E.L. DISEASE-POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

FOR INFORMATION ONLY

Attention:

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Larry St John

STATE OF CALIFORNIA
dca
DEPARTMENT OF CONSUMER AFFAIRS

CONTRACTORS STATE LICENSE BOARD
ACTIVE LICENSE

License Number **398874**

Entity CORP

Business Name ALL-GUARD ALARM SYSTEMS INC

Classification(s) C-7 C10

Expiration Date 02/28/2021

www.cslb.ca.gov

TSRL RESTAURANT
60 SEA WALK DRIVE
SEA RANCH, CA 95497

Quantity	Part No.	Manufacturer	Description	CSFM Listing No.
1	MS-10UD7	FIRELITE	FIRE ALARM CONTROL UNIT	7165-0075:0214
1	ANN-80	FIRELITE	REMOTE ANNUNCIATOR	7120-0075:0211
1	BG-12	FIRELITE	MANUAL PULL STATION	7150-0075:0184
1	2W-B	SYSTEM SENSOR	2-WIRE SMOKE DETECTOR	7272-1653:0152
1	P2RK	SYSTEM SENSOR	WEATHERPROOF HORN/STROBE	7125:1653:0188
1	HWF2V-COM	HONEYWELL	FIRE ALARM CONNUNICATOR	7300-1645:0511

MS-5UD(E)/MS-10UD(E) Series

Five Zone Fire Alarm Control Panel
Ten Zone Fire Alarm Control Panel

FIRE-LITE ALARMS by Honeywell

Control/Communicators

General

The **MS-5UD-3(E)** is a five-zone FACP (Fire Alarm Control Panel) and the **MS-10UD-7(E)** is a ten-zone FACP. These control panels provide reliable fire signaling protection for small to medium-sized commercial, industrial, and institutional buildings. Both panels include built-in communicators for Central Station Service and remote upload/download.

Each of these FACPs is compatible with System Sensor's microprocessor-based i^3 series detectors. These conventional smoke detectors can transmit a maintenance trouble signal to the FACP indicating the need for cleaning and a supervisory "freeze" signal when the ambient temperature falls below the detector rating. Additionally, both the MS-5UD-3 and MS-10UD-7 are compatible with conventional input devices such as two- and four-wire smoke detectors, pull stations, waterflow devices, tamper switches, and other normally-open contact devices. Refer to the *Fire•Lite Device Compatibility Document* for a complete listing of compatible devices.

Outputs include four NACs (Notification Appliance Circuits), three programmable Form-C relays (factory programmed for Alarm, Trouble, and Supervisory) and 24 VDC special application resettable and nonresettable power outputs. The FACPs supervise all wiring, AC voltage, battery level and telephone line integrity.

Activation of a compatible smoke detector or any normally-open fire alarm initiating device will activate audible and visual signaling devices, illuminate an indicating LED, sound the piezo sounder at the FACP, activate the communicator and FACP alarm relay, and operate an optional module used to notify a remote station or initiate an auxiliary control function.

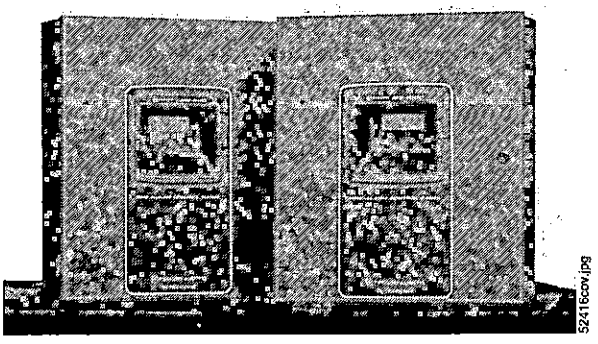
New options include a UL listed printer, PRN-6F and FireLite's IPDACT Internet Monitoring module. The FireWatch Series internet monitoring modules IPDACT-2 and IPDACT-2UD permit monitoring of alarm signals over the Internet saving the monthly cost of two telephone lines. Although not required, the secondary telephone line may be retained providing backup communication over the public switched telephone line.

NOTE: *The MS-5UD-3E and MS-10UD-7E offers the same features as the MS-5UD-3 and MS-10UD-7 but allow connection to 240 VAC. Unless otherwise specified, the information in this data sheet applies to both the 120 VAC and the 240 VAC versions of these panels.*

NOTE: *For ULC-listed models, see DF-60440.*

Features

- Listed to UL Standard 864, 9th edition.
- Built-in DACT (Digital Alarm Communicator/Transmitter).
- Style B (Class B) IDC (Initiating Device Circuit)
  - MS-5UD-3 - five IDCs.
  - MS-10UD-7 - ten IDCs.
- Style Y (Class B) NAC (Notification Appliance Circuit) - special application power
  - MS-5UD-3 - four NACs.
  - MS-10UD-7 - four NACs.
- Notification Appliances may be programmed as
  - Silence Inhibit.
  - Auto-Silence.



  - Strobe Synchronization for System Sensor, Wheelock, Gentex, Faraday, or Amseco devices.
  - Selective Silence (horn-strobe mute).
  - Temporal or Steady Signal.
  - Silenceable or Nonsilenceable.
- Optional CAC-5X Style Z (Class A) Converter Module for NACs and IDCs (2 required for MS-10UD-7).
- Form-C Relays for Alarm, Trouble and Supervisory - Contact Ratings 2.0 A@ 30 VDC or 0.5 A @ 30 VAC (resistive).
- 3.0 A total system current for MS-5UD-3.
- 7.0 A total system current for MS-10UD-7.
- Optional Dress Panel DP-51050
- Optional Trim Ring TR-CE for semi-flush mounting.
- 24 volt operation.
- Low AC voltage sense.
- Alarm Verification.
- PAS (Positive Alarm Sequence).
- Automatic battery trickle charger.
- Up to eight ANN-BUS annunciators:
  - Optional 8 zone Relay Module ANN-RLY.
  - Optional LED Annunciator Module ANN-LED,
  - Optional Remote Annunciator ANN-80.
  - Optional Remote Printer Gateway ANN-S/PG.
  - Optional LED Annunciator Driver ANN-I/O.
- Optional 4XTMF module (conventional reverse polarity/city box transmitter).

PROGRAMMING AND SOFTWARE:

- Can be programmed at the panel with no special software or additional equipment.
- Programmable Make/Break Ratio.
- Upload/Download (local or remote) of program and data via integral DACT.

USER INTERFACE:

- Built-in DACT (Digital Alarm Communicator/Transmitter).
- Integral 80-character LCD display with backlighting and keypad.
- Real-time clock/calendar with automatic daylight savings adjustments.
- ANN-BUS for connection to remote annunciators.
- Audible or silent walk test capabilities.
- Piezo sounder for alarm, trouble, and supervisory.

Controls and Indicators

LED INDICATORS

- FIRE ALARM (red)
- SUPERVISORY (yellow)
- TROUBLE (yellow)
- AC POWER (green)
- ALARM SILENCED (yellow)

CONTROL BUTTONS

- ACKNOWLEDGE
- ALARM SILENCE
- SYSTEM RESET (lamp test)
- DRILL

Terminal Blocks

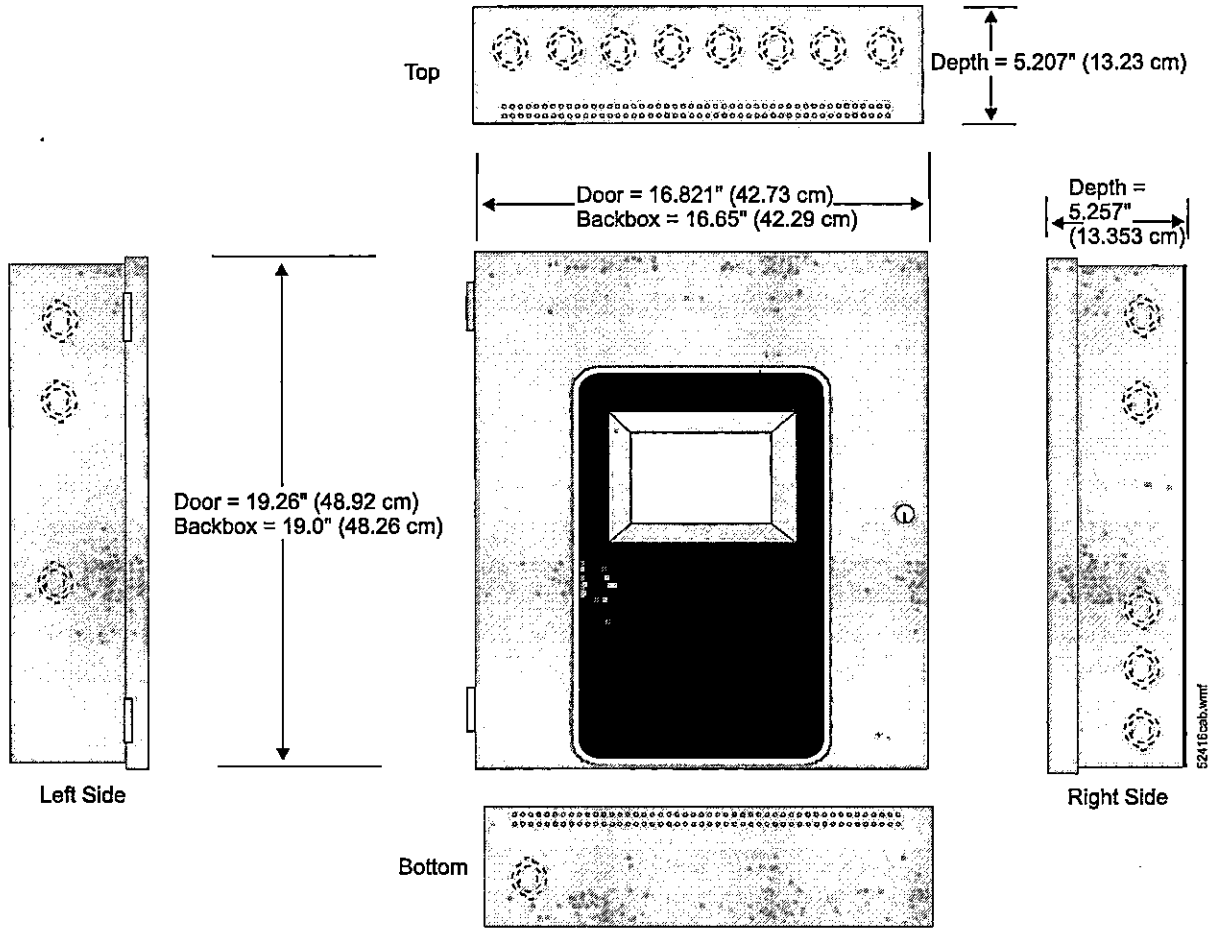
AC Power – TB1:

- MS-5UD-3 (FLPS-3 Power Supply): 120 VAC, 50/60 HZ, 1.00 A.
- MS-5UD-3E (FLPS-3 Power Supply): 240 VAC, 50 HZ, 0.54 A.
- MS-10UD-7 (FLPS-7 Power Supply): 120 VAC, 50/60 HZ, 3.80 A.
- MS-10UD-7E (FLPS-7 Power Supply): 240 VAC, 50/60 HZ, 2.20 A.

Wire size: minimum 14 AWG (2.00 mm²) with 600 V insulation. Supervised, nonpower-limited.

Battery (sealed lead acid only) – J12:

- Maximum Charging Circuit - Normal Flat Charge: 27.6 VDC @ 1.4 A. Supervised, nonpower-limited.
- Maximum Charger Capacity: 18 AH battery for MS-5UD-3(E), and 26 AH battery for MS-10UD-7(E). [Two 18 Ah batteries can be housed in the FACP cabinet. Larger batteries require separate battery box such as the BB-26 or BB-55.]



Cabinet Measurements

- Minimum Battery Size: 7 AH.

Initiating Device Circuits – TB4 (and TB 6 on MS-10UD-7 only):

- Alarm Zones 1 - 5 on TB 4 (MS-5UD-3 and MS-10UD-7).
- Alarm Zones 6 - 10 on TB6 (MS-10UD-7 only).
- Supervised and power-limited circuitry.
- Operation: All zones Style B (Class B).
- Normal Operating Voltage: Nominal 20 VDC.
- Alarm Current: 15 mA minimum.
- Short Circuit Current: 40 mA max.
- Maximum Loop Resistance: 100 ohms.
- End-of-Line Resistor: 4.7K ohm, 1/2 watt (P/N 71252 UL-listed).
- Standby Current: 2 mA.

Refer to the *Fire•Lite Device Compatibility Document* for listed compatible devices.

Notification Appliance Circuits – TB5 (and TB 7 on MS-10UD-7 only):

- Four NACs
- Operation: Style Y (Class B)
- Special Application power
- Supervised and power-limited circuitry
- Normal Operating Voltage: Nominal 24 VDC
- Maximum Signaling Current: 3.0 A for MS-5UD-3, 2.5 A maximum per NAC; 7.0 A for MS-10UD-7(E), 3.0 A maximum per NAC.
- End-of-Line Resistor: 4.7K ohm, 1/2 watt (Part #71252)
- Max. Wiring Voltage Drop: 2 VDC

Refer to the *Fire•Lite Device Compatibility Document* for compatible listed devices.

Form C Relays – TB8:

- *Relay 1* (factory default programmed as Alarm Relay)
- *Relay 2* (factory default programmed as fail-safe Trouble Relay)
- *Relay 3* (factory default programmed as Supervisory Relay)

Special Application Resettable Power – TB9:

- Jumper selectable by JP31 for resettable or nonresettable power.
- Operating voltage: 24 VDC nominal.
- Maximum available current: 500 mA - appropriate for powering four-wire smoke detectors.
- Power-limited circuit.

Refer to the *Fire•Lite Device Compatibility Document* for listed compatible devices.

Remote Sync Output - TB2: Remote power supply synchronization output, only required for the MS-5UD-3. 24 VDC nominal special application power. Maximum current is 40 mA. End-of-Line Resistor: 4.7K ohm. Supervised and power-limited circuit.

Product Line Information

MS-5UD-3: Five-zone, 24-volt Fire Alarm Control Panel (includes backbox, FLPS-3 power supply, technical manual, and a frame & post operating instruction sheet). 120 VAC operation.

MS-5UD-3E: Same as MS-5UD-3 except for 240 VAC operation.

MS-10UD-7: Ten-zone, 24-volt Fire Alarm Control Panel (includes backbox, FLPS-7 power supply, technical manual, and a frame & post operating instruction sheet).

MS-10UD-7E: Same as above with 240 VAC FLPS-7.

IPDACT, IPDACT-2/2UD Internet Monitoring Module: Mounts in bottom of enclosure with optional mounting kit (PN IPBRKT). Connects to primary and secondary DACT telephone output ports for internet communications over customer provided ethernet internet connection. Requires compatible Teldat Visoralarm Central Station Receiver. Can use DHCP or static IP. *(See data sheet DF-60407 for more information.)*

IPBRKT: Mounting kit for IPDACT in common enclosure.

IPSPLT: Y Adaptor option to allow connection of both panel dialer outputs to one cable input to IPDACT (sold separately).

OPTIONAL MODULES

CAC-5X: Optional (Class A) Converter Module. Converts Style B (Class B) Initiating Device Circuits to Style D (Class A); and Style Y (Class B) Notification Appliance Circuits to Style Z (Class A). Connects to J2 on the MS-5UD-3 and MS-10UD-7(E) main circuit board and to J7 on the MS-10UD-7(E).

NOTE: Two Class A Converter Modules are required for the ten-zone panel.

4XTMF: Transmitter module. Provides a supervised output for local energy municipal box transmitter and alarm and trouble reverse polarity. Includes a disable switch and disable trouble LED. A module jumper option allows the reverse polarity circuit to open with a system trouble condition if no alarm conditions exists. Mounts to the main circuit board connectors J4 and J5.

COMPATIBLE ANNUNCIATORS

ANN-80: Remote LCD Annunciator. Mimics the information displayed on the FACP's LCD. Red. (For white, order: **ANN-80-W.**)

ANN-LED: LED Annunciator with three LEDs for each zone: Alarm, Trouble, and Supervisory. Mounts in the DP-51050(B) dress panel. Red. (For white, order **ANN-LED-W.**)

ANN-RLED: LED Annunciator with three alarm (red) indicators for up to 30 input zones or addressable points. (Red. For white, order **ANN-LED-W.**) (See DF-60241).

ANN-RLY: Relay module. Mounts inside the cabinet. Provides ten Form C relays.

ANN-S/PG: Serial/parallel printer gateway. Provides a connection for a serial or parallel printer.

ANN-I/O: Driver module. Provides connections to a user-supplied graphic annunciator.

ACCESSORIES

DP-51050: Optional dress panel. Restricts access to the system wiring while allowing access to the membrane switch panel.

BB-26: Battery backbox, holds up to two 25 AH batteries and CHG-75.

BB-55: Battery backbox, holds up to two 25 AH batteries.

TR-CE: Optional trim-ring for semi-flush mounted cabinets.

PRN-6F: UL listed printer.

SYSTEM SPECIFICATIONS

System Capacity

- Annunciators 8

Electrical Specifications

- **MS-5UD-3 (FLPS-3 Power Supply):** 120 VAC, 60 HZ, 1.0 A
- **MS-10UD-7 (FLPS-7 Power Supply):** 120 VAC, 60 HZ, 3.90 A
- **MS-5UD-3E (FLPS-3 Power Supply):** 240 VAC, 50 HZ, 0.54 A.
- **MS-10UD-7E (FLPS-7 Power Supply):** 240 VAC, 50 HZ, 2.20 A.
- **Wire size:** minimum 14 AWG (2.0 mm^2) with 600 V insulation, supervised, nonpower-limited

Cabinet Specifications

Door: 19.26" (48.92 cm.) high x 16.82" (42.73 cm.) wide x 0.72" (1.82 cm.) deep. **Backbox:** 19.00" (48.26 cm.) high x 16.65" (42.29 cm.) wide x 5.25" (13.34 cm.) deep. **Trim Ring (TR-CE):** 22.00" (55.88 cm.) high x 19.65" (49.91 cm.) wide.

Shipping Specifications

Dimensions:

– 20.00" (50.80 cm.) high

– 22.5" (57.15 cm.) wide

– 8.5" (21.59 cm.) deep.

Weight: 27 lb (12.20 kg)

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 (noncondensing) 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.

Agency Listings and Approvals

The listings and approvals below apply to the basic MS-5UD-3 and MS-10UD-7 control panels. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** File S624
- **FM Approved**
- **CSFM:** 7165-0075:0214
- **MEA:** MEA: 333-07-E

***NOTE:** For ULC-listed models, see DF-60440.*

NFPA Standards

The MS-5UD-3(E) and MS-10UD-7(E) complies with the following NFPA 72 Fire Alarm Systems requirements:

– **LOCAL** (Automatic, Manual, Waterflow and Sprinkler Supervisory).

– **AUXILIARY** (Automatic, Manual and Waterflow) (requires 4XTMF).

– **REMOTE STATION** (Automatic, Manual and Waterflow) (Where a DACT is not accepted, the alarm, trouble and supervisory relays may be connected to UL 864 listed transmitters. For reverse polarity signaling of alarm and trouble, 4XTMF is required.)

– **PROPRIETARY** (Automatic, Manual and Waterflow).

– **CENTRAL STATION** (Automatic, Manual and Waterflow, and Sprinkler Supervised).

– **OT, PSDN** (Other Technologies, Packet-switched Data Network)

ISO 9001 CERTIFIED
ENGINEERING & MANUFACTURING
QUALITY SYSTEMS

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.

Made in the U.S. A.

For more information, contact Fire•Lite Alarms. Phone: (800) 627-3473, FAX: (877) 699-4105.
www.firelite.com

ANN-80

80-Character LCD Serial Annunciator

FIRE-LITE ALARMS by Honeywell

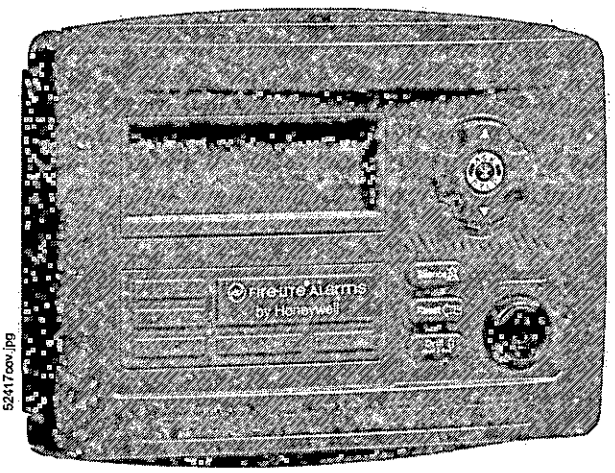
Annunciators

General

The ANN-80 annunciator is a compact, backlit, 80-character LCD fire annunciator that mimics the Fire Alarm Control Panel (FACP) display. It provides system status indicators for AC Power, Alarm, Trouble, Supervisory, and Alarm Silenced conditions. The ANN-80 and the FACP communicate over a two-wire serial interface employing the ANN-BUS communication format. Connected devices are powered, via two additional wires, by either the host FACP or a remote UL-listed, filtered power supply. ANN-80 is red; for white, order ANN-80-W.

The ANN-80 displays English-language text of system point information including device type, zone, independent point alarm, trouble or supervisory status, as well as any custom alpha labels programmed into the control panel. It includes control switches for remote control of critical system functions. (A keyswitch prevents unauthorized operation of the control switches.)

Up to eight ANN-80s may be connected to the ANN-BUS of each FACP. No programming is required, which saves time during system commissioning.



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Features

- Listed to UL Standard 864, 9th Edition.
- Backlit 80-character LCD display (20 characters x 4 lines).
- Mimics all display information from the host panel.
- Control switches for System Acknowledge, Signal Silence, Drill, and Reset.
- Control switches can be independently enabled or disabled at the FACP.
- Keyswitch enables/disables control switches and mechanically locks annunciator enclosure
- Keyswitch can be enabled or disabled at the FACP.
- Enclosure supervised for tamper.
- System status LEDs for AC Power, Alarm, Trouble, Supervisory, and Alarm Silence.
- Local sounder can be enabled or disabled at the FACP.
- ANN-80 connects to the ANN-BUS terminal on the FACP and requires minimal panel programming.
- Displays device type identifiers, individual point alarm, trouble, supervisory, zone, and custom alpha labels.
- Time-and date display field.
- Surface mount directly to wall or to single, double, or 4" square electrical box.
- Semi-flush mount to single, double, or 4" square electrical box. Use ANN-SB80KIT for angled view mounting.
- Can be remotely located up to 6,000 feet (1,800 m) from the panel.
- Backlight turns off during AC loss to conserve battery power but will turn back on if an alarm condition occurs.
- May be powered by 24 VDC from the host FACP or by remote power supply (requires 24 VDC).
- Up to eight ANN-80s can be connected on the ANN-BUS.

Controls and Indicators

- AC Power
- Alarm
- Trouble
- Supervisory
- Alarm Silenced

Specifications

- **Operating voltage range:** 18 VDC to 28 VDC.
- **Current consumption** @ 24 VDC nominal (filtered and non-resettable): 40 mA maximum.
- **Ambient temperature:** 32°F to 120°F (0°C to 49°C).
- **Relative humidity:** 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F).
- 5.375" (13.65 cm.) high x 6.875" (17.46 cm.) wide x 1.375" (3.49 cm.) deep.
- For use indoors in a dry location.
- All connections are power-limited and supervised.

Agency Listings and Approvals

The listings and approvals below apply to the ANN-80. 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:** S2424
- **FM approved**
- **CSFM:** 7120-0075:211
- **MEA:** 442-06-E

The ANN-BUS

POWERING THE DEVICES ON THE ANN-BUS FROM AUXILIARY POWER SUPPLY

The ANN-BUS can be powered by an auxiliary power supply when the maximum number of ANN-BUS devices exceeds the ANN-BUS power requirements. See the FACP manual for more information.

ANN-BUS DEVICE ADDRESSING

Each ANN-BUS device requires a unique address (ID Number) in order to communicate with the FACP. A maximum of 8 devices can be connected to the FACP ANN-BUS communication circuit. See the FACP manual for more information.

WIRE REQUIREMENTS: COMMUNICATIONS CIRCUIT

The ANN-80 connects to the FACP ANN-BUS communications circuit. To determine the type of wire and the maximum wiring distance that can be used with FACP ANN-BUS accessory modules, it is necessary to calculate the total worst case current draw for all modules on a single 4-conductor bus. The total worst case current draw is calculated by adding the individual worst case currents for each module.

NOTE: *For total worst case current draw on a single ANN-BUS refer to appropriate FACP manual.*

After calculating the total worst case current draw, the following table specifies the maximum distance the modules can be located from the FACP on a single wire run. The table ensures 6.0 volts of line drop maximum. In general, the wire length is limited by resistance, but for heavier wire gauges, capacitance is the limiting factor.

These cases are marked in the chart with an asterisk (*). Maximum length can never be more than 6,000 feet (1,800 m), regardless of gauge used. See table below.

WIRE REQUIREMENTS: POWER CIRCUIT

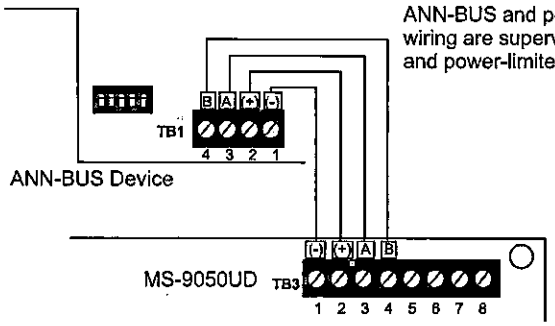
- 14 to 18 AWG (0.75 - 2.08 mm^2) wire for 24 VDC power circuit is acceptable. Power wire distance limitation is set by 1.2 volt maximum line drop form source to end of circuit.
- All connections are power-limited and supervised.
- A maximum of eight ANN-80 modules may be connected to this circuit.

Communication Pair Wiring Distance: FACP to Last ANN-BUS Module

Total Worst Case Current Draw (amps)	22 Gauge	18 Gauge	16 Gauge	14 Gauge
0.100	1,852 ft.	4,688 ft.	* 6,000 ft.	*6,000 ft.
0.200	926 ft.	2,344 ft.	3,731 ft.	5,906 ft.
0.300	617 ft.	1,563 ft.	2,488 ft.	3,937 ft.
0.400	463 ft.	1,172 ft.	1,866 ft.	2,953 ft.
0.500	370 ft.	938 ft.	1,493 ft.	2,362 ft.
0.600	309 ft.	781 ft.	1,244 ft.	1,969 ft.
0.700	265 ft.	670 ft.	1,066 ft.	1,687 ft.
0.800	231 ft.	586 ft.	933 ft.	1,476 ft.
0.900	206 ft.	521 ft.	829 ft.	1,312 ft.
1.000 (max.)	185 ft.	469 ft.	746 ft.	1,181 ft.

WIRING CONFIGURATION

The following figure illustrates the wiring between the FACP and ANN-BUS devices.



FACP Wiring to ANN-BUS Device

ORDERING OPTIONS:

ANN-80: Red 80 character LCD Annunciator.

ANN-80-W: White, 80 character LCD Annunciator.

ANN-SB80KIT-R: Red surface mount backbox with angled wedge.

ANN-SB80KIT-W: White surface mount backbox with angled wedge.

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ENGINEERING & MANUFACTURING QUALITY SYSTEMS

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Made in the U.S. A.

For more information, contact Fire•Lite Alarms. Phone: (800) 627-3473, FAX: (877) 699-4105.
www.firelite.com

BG-12 Series

Manual Fire Alarm Pull Stations

FIRE-LITE ALARMS by Honeywell

Conventional Initiating Devices

General

The Fire-Lite **BG-12 Series** is a cost-effective, feature-packed series of non-coded manual fire alarm pull stations. It was designed to meet multiple applications with the installer and end-user in mind. The BG-12 Series features a variety of models including single- and dual-action versions.

The BG-12 Series provides Fire-Lite Alarm Control Panels (FACPs), as well as other manufacturers' controls, with a manual alarm initiating input signal. Its innovative design, durable construction, and multiple mounting options make the BG-12 Series simple to install, maintain, and operate.

Features

- Aesthetically pleasing, highly visible design and color.
- Attractive contoured shape and light textured finish.
- Meets ADA 5 lb. maximum pull-force.
- Meets UL 38, Standard for Manually Actuated Signaling Boxes.
- Easily operated(single- or dual-action), yet designed to prevent false alarms when bumped, shaken, or jarred.
- PUSH IN/PULL DOWN handle latches in the down position to clearly indicate the station has been operated.
- The word "ACTIVATED" appears on top of the handle in bright yellow, further indicating operation of the station.
- Operation handle features white arrows showing basic operation direction for non-English-speaking persons.
- Braille text included on finger-hold area of operation handle and across top of handle.
- Multiple hex- and key-lock models available.
- U.S. patented hex-lock needs only a quarter-turn to lock/unlock.
- Station can be opened for inspection and maintenance without initiating an alarm.
- Product ID label viewable by simply opening the cover; label is made of a durable long-life material.
- The words "NORMAL" and "ACTIVATED" are molded into the plastic adjacent to the alarm switch (located inside).
- Four-position terminal strip molded into backplate.
- Terminal strip includes Phillips combination-head captive 8/32 screws for easy connection to Initiating Device Circuit (IDC).
- Terminal screws backed-out at factory and shipped ready to accept field wiring (up to 12 AWG/3.1 mm²).
- Terminal numbers are molded into the backplate, eliminating the need for labels.
- Switch contacts are normally open.
- Can be surface-mounted (with **SB-10** or **SB-I/O**) or semi-flush mounted. Semi-flush mount to a standard single-gang, double-gang, or 4" (10.16 cm) square electrical box.
- Backplate is large enough to overlap a single-gang backbox cutout by 1/2" (1.27 cm).
- Optional trim ring (**BG12TR**).
- Spanish versions *(FUEGO)* available (**BG-12LSP, BG-12LPSP**).
- Designed to replace the Fire-Lite legacy **BG-10** Series.
- Models packaged in attractive, clear plastic (PVC), clam-shell-style, Point-of-Purchase packages. Packaging includes a cutaway dust/paint cover in shape of pull station.

52004-p4c.jpg

Construction

- Cover, backplate and operation handle are all molded of durable polycarbonate material.
- Cover features white lettering and trim.
- Red color matches System Sensor's popular SpectrAlert® Advance horn/strobe series.

Operation

The BG-12 manual pull stations provide a textured finger-hold area that includes Braille text. In addition to PUSH IN and PULL DOWN text, there are arrows indicating how to operate the station, provided for non-English-speaking people.

Pushing in and then pulling down on the handle activates the normally-open alarm switch. Once latched in the down position, the word "ACTIVATED" appears at the top in bright yellow, with a portion of the handle protruding at the bottom as a visible flag. Resetting the station is simple: insert the key, twist one quarter-turn, then open the station's front cover, causing the spring-loaded operation handle to return to its original position. The alarm switch can then be reset to its normal (non-alarm) position manually (by hand) or by closing the station's front cover, which automatically resets the switch.

Specifications

PHYSICAL SPECIFICATIONS:

	pull station	SB-I/O	SB-10
Height	5.5 inches (13.97 cm)	5.601 inches (14.23 cm)	5.5 inches (13.97 cm)
Width	4.121 inches (10.47 cm)	4.222 inches (10.72 cm)	4.121 inches (10.47 cm)
Depth	1.39 inches (3.53 cm)	1.439 inches (3.66 cm)	1.375 inches (3.49 cm)

52004dim.tbl

ELECTRICAL SPECIFICATIONS:

Switch contact ratings: gold-plated; rating 0.25 A @ 30 VAC or VDC.

ENGINEERING/ARCHITECTURAL SPECIFICATIONS

Manual Fire Alarm Stations shall be non-code, with a key- or hex-operated reset lock in order that they may be tested, and so designed that after actual Emergency Operation, they cannot be restored to normal except by use of a key or hex. An operated station shall automatically condition itself so as to be visually detected as activated. Manual stations shall be constructed of red colored LEXAN (or polycarbonate equivalent) with clearly visible operating instructions provided on the cover. The word **FIRE** shall appear on the front of the stations in white letters, 1.00 inches (2.54 cm) or larger. Stations shall be suitable for surface mounting on matching backbox SB-10 or SB-I/O; or semi-flush mounting on a standard single-gang, double-gang, or 4" (10.16 cm) square electrical box, and shall be installed within the limits defined by the Americans with Disabilities Act (ADA) or per national/local requirements. Manual Stations shall be Underwriters Laboratories listed.

***NOTE:** *The words "FIRE/FUEGO" on the BG-12LSP shall appear on the front of the station in white letters, approximately 3/4" (1.905 cm) high.*

Agency Listings and Approvals

The listings and approvals below apply to the BG-12 Series pull stations. 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.

- **C(UL)US:** S711
- **FM Approved**
- **CSFM:** 7150-0075:184
- **MEA:** 67-02-E
- **Patented:** U.S. Patent No. D428,351; 6,380,846; 6,314,772; 6,632,108.

Product Line Information

BG-12S: Single-action pull station with pigtail connections, hex lock.

BG-12SL: Same as BG-12 with key lock.

BG-12: Dual-action pull station with SPST N/O switch, screw terminal connections, ***hex lock***.

BG-12L: Same as BG-12 with key lock.

BG-12LSP: Same as BG-12L with English/Spanish *(FIRE/FUEGO)* labeling.

BG-12LOB: Same as BG-12L with "outdoor use" listing. Includes outdoor listed backbox, and sealing gasket.

BG-12LO: Same as BG-12L with "outdoor use" listing. Does not include backbox.

BG-12LA: Same as BG-12L with auxiliary contacts.

BG-12LPS: Dual-action pull station with pre-signal option.

BG-12LPSP: Same as BG-12LPS with English/Spanish *(FIRE/FUEGO)* labeling.

SB-10: Surface-mount backbox, metal.

SB-I/O: Surface-mount backbox, plastic. *(Included with BG-12LOB.)*

BG12TR: Optional trim ring for semi-flush mounting.

17003: Keys, set of two. (Included with key-lock pull stations.)

17007: Hex lock, 9/64". (Included with hex-lock pull stations.)

***NOTE:** For addressable BG-12LX models, see data sheet DF-52013.*

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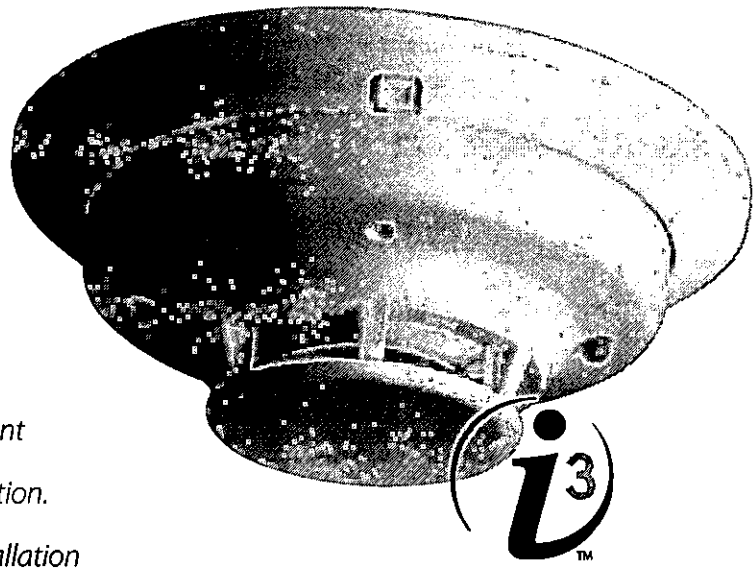
SYSTEM SENSOR®

Photoelectric Smoke Detectors



System Sensor i³™ series smoke detectors represent significant advancement in conventional detection. The i³ family is founded on three principles: installation ease, intelligence, and instant inspection.

Features

- Plug-in detector line, mounting base included
- Large wire entry port
- In-line terminals with SEMS screws
- Mounts to octagonal and single-gang back boxes, 4-square back boxes, or direct to ceiling
- Stop-Drop 'N Lock attachment to base
- Removable detector cover and chamber
- Built-in remote maintenance signaling
- Drift compensation and smoothing algorithms
- Simplified sensitivity measurement
- Wide-angle, dual-color LED indication
- Loop testing via EZ Walk feature
- Built-in test switch

Installation ease. The i³ line redefines installation ease with its plug-in design. This allows an installer to pre-wire bases (included with heads). The large wire entry port and in-line terminals provide ample room for neatly routing the wiring inside the base. The base accommodates a variety of back box mounting methods as well as direct mounting with drywall anchors. To complete the installation, i³ heads plug into the base with a simple Stop-Drop 'N Lock™ action.

Intelligence. i³ detectors offer a number of intelligent features to simplify testing and maintenance. Drift compensation and smoothing algorithms are standard with the i³ line to minimize nuisance alarms. 2-wire i³ detectors can generate a remote LED-indicated maintenance signal when connected to the 2W-MOD2 loop test/maintenance module or a panel equipped with the i³ protocol. The SENS-RDR, a wireless device, displays the sensitivityof i³ detectors in terms of percent-per-foot obscuration.

Instant inspection. The i³ series provides wide-angle red and green LED indicators for instant inspection of the detector's condition: normal standby, out-of-sensitivity, alarm, or freeze trouble. When connected to the 2W-MOD2 loop test/maintenance module or a panel with the i³ protocol, the EZ Walk loop test feature is available on 2-wire i³ detectors. This feature verifies the initiating loop wiring by providing LED status indication at each detector.

Agency Listings

UL LISTED	FM APPROVED		MEA approved	MSFM approved	ETL
5911	3011446	7272-1653:152	290-01-E	2093	3180932

Smoke Detector Specifications

Architectural/Engineering Specifications

Smoke detector shall be a System Sensor i³ Series model number_____, listed to Underwriters Laboratories UL 268 for Fire Protection Signaling Systems. The detector shall be a photoelectric type (Model 2W-B, 4W-B) or a combination photoelectric/thermal (Model 2WT-B, 4WT-B) with thermal sensor rated at 135°F (57.2°C). The detector shall include a mounting base for mounting to 3½-inch and 4-inch octagonal, single-gang, and 4-inch square back boxes with a plaster ring, or direct mount to the ceiling using drywall anchors. Wiring connections shall be made by means of SEMS screws. The detector shall allow pre-wiring of the base and the head shall be a plug-in type. The detector shall have a nominal sensitivity of 2.5 percent-per-foot nominal as measured in the UL smoke box. The detector shall be capable of automatically adjusting its sensitivity by means of drift compensation and smoothing algorithms. The detector shall provide dual-color LED indication that blinks to indicate power up, normal standby, out of sensitivity, alarm, and freeze trouble (Model 2WT-B, 4WT-B) conditions. When used in conjunction with the 2W-MOD2 module, 2-wire models shall include a maintenance signal to indicate the need for maintenance at the alarm control panel and shall provide a loop testing capability to verify the circuit without testing each detector individually.

Electrical Specifications

Operating Voltage	Nominal: 12/24 V non-polarized Minimum: 8.5 V Maximum: 35 V
Maximum Ripple Voltage	30% peak to peak of applied voltage
Standby Current	2-wire: 50 µA maximum average; 4-wire: 50 µA maximum average
Maximum Alarm Current	2-wire: 130 mA limited by control panel; 4-wire: 20 mA @12 V, 23 mA @ 24 V
Peak Standby Current	2-wire: 100 µA; 4-wire: n/a
Alarm Contact Ratings	2-wire: n/a; 4-wire: 0.5 A @ 30 V AC/DC

Physical Specifications

Dimensions (including base)	5.3 inches (127 mm) diameter; 2.0 inches (51 mm) height
Weight	6.3 oz (178 g)
Operating Temperature Range	2W-B and 4W-B: 32°F to 120°F (0°C to 49°C); 2WT-B and 4WT-B: 32°F to 100°F (0°C to 37.8°C)
Operating Humidity Range	0 to 95% RH non-condensing
Thermal Sensor	135°F (57.2°C) fixed
Freeze Trouble	2WT-B and 4WT-B only: 41°F (5°C)
Sensitivity	2.5%/ft nominal
Input Terminals	14 to 22 AWG
Mounting	3½-inch octagonal back box 4-inch octagonal back box Single-gang back box 4-inch square back box with a plaster ring Direct mount to ceiling

LED Modes — Power-Up Sequence for LED Indication

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

Ordering Information

Model	Thermal	Wiring	Alarm Current
2W-B	No	2-wire	130 mA max. limited by control panel
2WT-B	Yes	2-wire	130 mA max. limited by control panel
4W-B	No	4-wire	20 mA @ 12 V, 23 mA @ 24 V
4WT-B	Yes	4-wire	20 mA @ 12 V, 23 mA @ 24 V

Accessories

2W-MOD2	2-wire loop test / maintenance module	RT	Removal / replacement tool
SENS-RDR	Sensitivity reader	A77-AB2	Retrofit adapter bracket, 6.6 inch (16.76 cm) diameter

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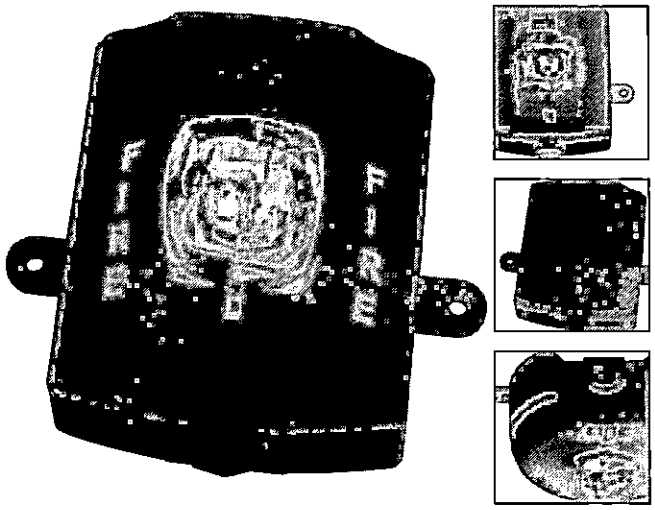
SYSTEM SENSOR®

Outdoor Selectable-Output Horns, Strobes, and Horn Strobes



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

SPECTRAlert ADVANCE

Features

- 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
- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- Universal mounting plate for wall- and ceiling-mount units
- Mounting plate shorting spring tests wiring continuity before devices are installed
- Weatherproof per NEMA 4X, IP56
- Listed to UL 1638 (strobe) and UL 464 (horn)
- Rated from –40°F to 151°F
- Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and three volume selections
- Compatible with System Sensor synchronization protocol and legacy SpectrAlert products

The SpectrAlert Advance series offers the broadest line of outdoor 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.

SpectrAlert Advance outdoor horns, strobes, and horn strobes can be used indoors or outdoors in wet or dry applications, and can provide reliable operation from –40°F to 151°F.

Like the entire SpectrAlert Advance product line, these devices 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.

All horns, strobes, and horn strobes use a universal mounting plate with an onboard shorting spring that 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

SIGNALING UL LISTED
S4011 (chimes, horn strobes, horns)
S3593 (outdoor and alert strobes)

FM APPROVED
3023572

MEA approved
MEA452-05-E

7300-1653:187 (outdoor strobes)
7125-1653:188 (horn strobes, chime strobes)
7135-1653:189 (horns, chimes)

SpectrAlert Advance Outdoor Horn, Strobe, and Horn Strobe Specifications

Architect/Engineer Specifications

General

SpectrAlert Advance outdoor horns, strobes and horn strobes shall mount to a weatherproof 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. Outdoor SpectrAlert Advance products shall operate between –40 and 151 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. The strobe must be installed with its weatherproof back box in order to remain outdoor approved per UL. The strobe shall be suitable for use in wet environments.

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 shall be set by a multiple position switch. On four-wire products, the strobe shall be powered independently of the sounder. The horn or horn strobe models shall operate on a coded or non-coded power supply. The horn strobe must be installed with its weatherproof back box in order to remain outdoor approved per UL. The horn strobe shall be suitable for use in wet environments.

Physical/Electrical Specifications	
Operating Temperature	–40°F to 151°F (–40°C to 66°C)
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12 DC/FWR or regulated 24 DC/FWR[1]
Operating Voltage Range[2]	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 × 2.5″ high (173 mm diameter × 64 mm high)
Wall-Mount Dimensions (including lens)	5.6″ L × 4.7″ W × 2.5″ D (142 mm L × 119 mm W × 64 mm D)
Horn Dimensions	5.6″ L × 4.7″ W × 1.3″ D (142 mm L × 119 mm W × 33 mm D)
Wall-Mount Weatherproof Back Box Dimensions (SA-WBB)	5.7″ L × 5.1″ W × 2.0″ D (145 mm L × 130 mm W × 51 mm D)
Ceiling-Mount Weatherproof Back Box Dimensions (SA-WBBC)	7.1″ diameter × 2.0″ high (180 mm diameter × 51 mm high)

Notes:

1. Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.
2. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 15/75 cd.

UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)

		8–17.5 Volts		16–33 Volts	
	Candela	DC	FWR	DC	FWR
Standard Candela Range	15	123	128	66	71
	15/75	142	148	77	81
	30	NA	NA	94	96
	75	NA	NA	158	153
	95	NA	NA	181	176
	110	NA	NA	202	195
	115	NA	NA	210	205
High Candela Range	135	NA	NA	228	207
	150	NA	NA	246	220
	177	NA	NA	281	251
	185	NA	NA	286	258

UL Max. Horn Current Draw (mA RMS)

		8–17.5 Volts		16–33 Volts	
Sound Pattern	dB	DC	FWR	DC	FWR
Temporal	High	57	55	69	75
Temporal	Medium	44	49	58	69
Temporal	Low	38	44	44	48
Non-Temporal	High	57	56	69	75
Non-Temporal	Medium	42	50	60	69
Non-Temporal	Low	41	44	50	50
Coded	High	57	55	69	75
Coded	Medium	44	51	56	69
Coded	Low	40	46	52	50

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, Standard Candela Range (15–115 cd)

	8–17.5 Volts		16–33 Volts						
DC Input	15	15/75	15	15/75	30	75	95	110	115
Temporal High	137	147	79	90	107	176	194	212	218
Temporal Medium	132	144	69	80	97	157	182	201	210
Temporal Low	132	143	66	77	93	154	179	198	207
Non-Temporal High	141	152	91	100	116	176	201	221	229
Non-Temporal Medium	133	145	75	85	102	163	187	207	216
Non-Temporal Low	131	144	68	79	96	156	182	201	210
FWR Input									
Temporal High	136	155	88	97	112	168	190	210	218
Temporal Medium	129	152	78	88	103	160	184	202	206
Temporal Low	129	151	76	86	101	160	184	194	201
Non-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			
DC Input	135	150	177	185	FWR Input	135	150	177	185
Temporal High	245	259	290	297	Temporal High	215	231	258	265
Temporal Medium	235	253	288	297	Temporal Medium	209	224	250	258
Temporal Low	232	251	282	292	Temporal Low	207	221	248	256
Non-Temporal High	255	270	303	309	Non-Temporal High	233	248	275	281
Non-Temporal Medium	242	259	293	299	Non-Temporal Medium	219	232	262	267
Non-Temporal Low	238	254	291	295	Non-Temporal Low	214	229	256	262

Candela Derating

For K series products used at low temperatures, listed candela ratings must be reduced in accordance with this table.

Strobe Output (cd)

Listed Candela	Candela rating at –40°F
15	Do not use below 32°F
15/75	
30	
75	44
95	70
110	110
115	115
135	135
150	150
177	177
185	185

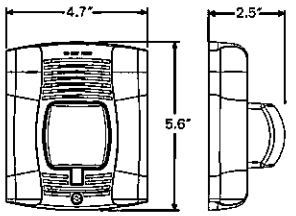
Horn Tones and Sound Output Data

Horn and Horn Strobe Output (dBA)

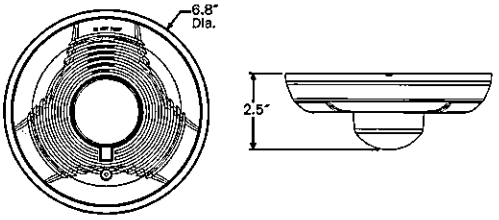
			8–17.5 Volts		16–33 Volts		24-Volt Nominal			
							Reverberant		Anechoic	
Switch Position	Sound Pattern	dB	DC	FWR	DC	FWR	DC	FWR	DC	FWR
1	Temporal	High	78	78	84	84	88	88	99	98
2	Temporal	Medium	74	74	80	80	86	86	96	96
3	Temporal	Low	71	73	76	76	83	80	94	89
4	Non-Temporal	High	82	82	88	88	93	92	100	100
5	Non-Temporal	Medium	78	78	85	85	90	90	98	98
6	Non-Temporal	Low	75	75	81	81	88	84	96	92
7†	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.

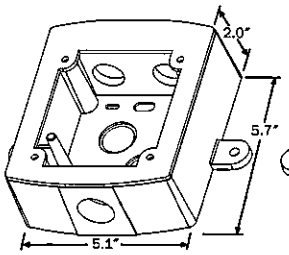
SpectrAlert Advance Dimensions



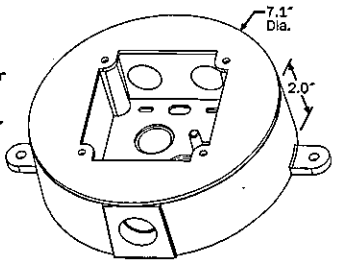
Wall-mount horn strobes



Ceiling-mount horn strobes



Wall weatherproof back box



Ceiling weatherproof back box

SpectrAlert Advance Ordering Information

Model	Description
Wall Horn Strobes	
P2RK*†	2-Wire Horn Strobe, Standard cd, Red, Outdoor
P2RHK*†	2-Wire Horn Strobe, High cd, Red, Outdoor
P2WK*†	2-Wire Horn Strobe, Standard cd, White, Outdoor
P2WHK*†	2-Wire Horn Strobe, High cd, White, Outdoor
P4RK†	4-Wire Horn Strobe, Standard cd, Red, Outdoor
P4WK	4-Wire Horn Strobe, Standard cd, White, Outdoor
P2RHK-120	2-Wire Horn Strobe, High cd, Red, Outdoor, 120 V
Wall Strobes	
SRK*†	Strobe, Standard cd, Red, Outdoor
SRHK*†	Strobe, High cd, Red, Outdoor
SWK*†	Strobe, Standard cd, White, Outdoor
SWHK*†	Strobe, High cd, White, Outdoor

Model	Description
Ceiling Horn Strobes	
PC2RK	2-Wire Horn Strobe, Standard cd, Red, Outdoor
PC2RHK	2-Wire Horn Strobe, High cd, Red, Outdoor
PC2WK	2-Wire, Horn Strobe, Standard cd, White, Outdoor
PC2WHK	2-Wire, Horn Strobe High cd, White, Outdoor
PC4WK	4-Wire, Horn Strobe, Standard cd, White, Outdoor
PC4WHK	4-Wire, Horn Strobe, High cd, White, Outdoor
Ceiling Strobes	
SCRK	Strobe, Standard cd, Red, Outdoor
SCRHK	Strobe, High cd, Red, Outdoor
SCWK	Strobe, Standard cd, White, Outdoor
SCWHK	Strobe, High cd, White, Outdoor
Horns	
HRK	Horn, Red, Outdoor

Notes:

* Add "-P" to model number for plain housing (no "FIRE" marking on cover), e.g., P2RK-P.

† Add "-R" to model number for weatherproof replacement device (no back box included), especially for use with weatherproof outdoor flush mounting plate, WTP and WTPW.

"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.

SYSTEM SENSOR®

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Honeywell
THE POWER OF CONNECTED | Fire Alarm Communicators

HWF2-COM Series

LTE / IP Single or Dual Path Commercial Fire Communicators

The HWF2-COM Series LTE / IP fire communicators are single or dual path commercial fire alarm communicators that offer Contact ID reporting with any FACP (fire alarm control panel) with a built-in dialer.

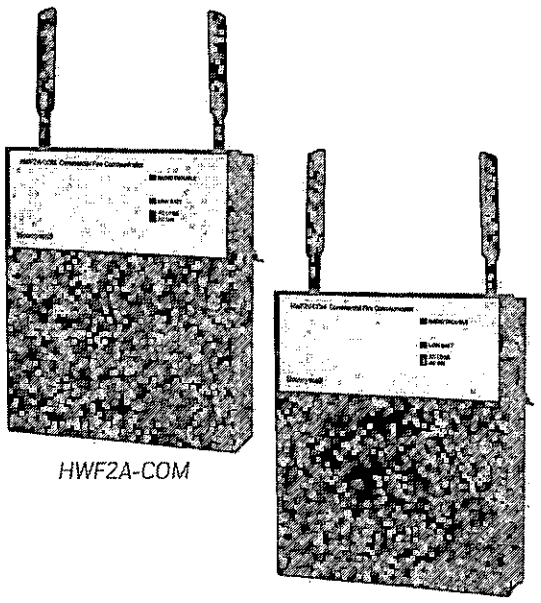
Models include:

- HWF2V-COM (Verizon LTE & IP)
- HWF2A-COM (AT&T LTE & IP)

Both models connect directly to the primary or secondary communication ports of a fire panel's digital alarm communicator transmitter (DACT).

Three selectable reporting paths include: LTE cellular only, IP only, or IP primary with LTE cellular backup. All signals from the HWF2-COM Series are delivered to the AlarmNet® network control center which routes highly encrypted, cybersecured Ethernet data packets via a customer-provided Internet connection or LTE cellular network to the appropriate central station. The AlarmNet® network control center is fully redundant and monitored 24/7.

Installation and programming are easy through the AlarmNet 360® website, using the handheld 7720P Programming tool, or using the control panel's programming mode (for panels that support this option).



HWF2A-COM

HWF2V-COM

FEATURES & BENEFITS

- LTE and IP connection tested every day
- Three selectable reporting paths: LTE cellular only, IP only, or IP Primary with LTE cellular backup
- Requires no change to the existing FACP configuration
- Connects directly to the primary and secondary telephone ports of a DACT
- Plan choices range from 5 minute, 60 minute, 6 hour, and 24 hour supervision intervals
- Operates over the following communication protocols: LTE, HSPA+(4G) HSPA (3G)
- Works over any type of customer provided Ethernet 10/100 based network connection (LAN or WAN), DSL model 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
- Reliable connection: IP and cellular connection tested every day
- Built-in, standalone power supply module. Onboard charging circuit design accommodates battery backup. Includes primary power and battery supervision
- Diagnostic LEDs indicate signal strength and status
- Choice of LTE provider services
- QOS: Quality of Service diagnostics via AlarmNet conveys vital communicator information including signal strength, message path used, and when the message was received
- 7720P Handheld programmer for easy setup

The HWF2-COM LTE / IP fire communicators operate over the most modern and common cellular networks including LTE, 4G and3G.

They connect to any customer provided Ethernet 10/100 base network connection (LAN or WAN), DSL or cable modem. Selectable reporting path feature allows the radios to be configured for a single or dual path, while providing appropriate supervision intervals based on NFPA 72 requirements. Selectable paths and supervision timing intervals include:

SELECTABLE PATH	DESCRIPTION	SUPERVISION TIMES
2010 Cell	Single path, cellular	5 Minutes
2010 IP	Single path, IP	5 Minutes
2010 IP & Cell	Dual path, IP and cellular	24 Hours
2013 Cell	Single path, cellular	60 Minutes
2013 IP	Single path, IP	60 Minutes
2013 IP & Cell	Dual path, IP and cellular	6 Hours*

Operation

When an event occurs, the FACP goes off-hook to dial the central station. The HWF2-COM Series dialer capture module detects the offhook condition and provides the fire panel with a dial tone. When the fire panel detects the dial tone, it begins dialing the central station.

After the dialing is completed, the dialer capture module returns a signal to the fire panel. The fire panel then sends the Contact ID reports to the dialer capture module, which in turn sends a signal after the report is successfully received from the fire panel. The dialer capture nodule sends the Contact ID reports to the HWF2-COM Series communications module. When all the reports are sent, the fire panel goes on-hook. The HWF2-COM Series communications module then transmits the messages to the central station either over the LTE network or the Internet (depending on configuration).

Fire Communicator / Panel Capability

The HWF2-COM Series is compatible with fire alarm control panels that use the Contact ID communications format as described in the SIA DC-05 standard.

Easy to Program

The HWF2-COM communicator can be pre-programmed using the 7720P programmer to enter all central station information. This is saved to the HWF2-COM communicator panel memory. When the HWF2-COM is installed at the site and connected to the Internet/ Intranet, it registers with the AlarmNet Receiver.

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 MAC ID, and MAC CRC number located on the outside of the box and inside of the module

All parameters are assigned by the monitoring station.

AlarmNet

AlarmNet communications technology provides a highly reliable alternative for the transmission of alarm signals. The network provides extensive coverage in the United States and Canada. The AlarmNet Network Control Center processes signals from powerful servers in multiple locations equipped with 24/7 infrastructure support. Redundant hardware servers, real-time backup databases, and generators with battery backup at all locations ensure continuity of service. Signals from AlarmNet are transmitted to central station receivers using multiple communication paths consisting of the Internet, LTE radio network, or toll free plain old telephone service (POTS). Visit AlarmNet.com to learn more.

Installation Requirements, UL Compliance

To meet UL864/NFPA requirements, ensure the following:

- HWF2-COM Series must be installed in accordance with the National Fire Protection Association (NFPA) standards 70 and 72
- HWF2-COM Series must be mounted in the same room and within 20 feet of the fire panel.
- HWF2-COM Series and all equipment used for the IP connection (e.g., router, hub, modem, etc) must be UL-listed, powered from an unswitched branch circuit, and be provided with appropriate standby power.
- HWF2-COM Series must use the 7AH battery (not included) to provide 24 hour backup capability

HWF2-COM Series Technical Specifications

ELECTRICAL

Transformer:

- Primary: 120VAC, 60Hz, 0.5A
- Secondary: 18VDC, 50VA

Battery:

- One 12 V 7.0 AH lead-acid battery: (not supplied)
- Battery charging current: 1 Amp maximum
- Battery discharge current: Standby 230mA, Active 950mA

CABINET SPECIFICATIONS

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

Color: Red

SHIPPING DIMENSIONS

Weight: 5.3 lbs (6.94kg)

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

HWF2V-COM: LTE Digital Cellular Fire Alarm Communicator and Internet Panel, Verizon LTE / IP

HWF2A-COM: LTE Digital Cellular Fire Alarm Communicator and Internet Panel, AT&T LTE / IP

Both models include:

- Red cabinet with key and lock
- Wall outlet box
- Dialer capture module
- LTE communications module
- Antenna and mounting adapter
- PowerBoost1 power supply
- LED display board
- Transformer
- Manual and required screws
- Cables, etc.

ANTENNA AND EXTERNAL HARDWARE

CELL-ANT3DB: 3dBA gain antenna

WA7626-CA: SMA to N adapter cable

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

Note for external installations: the WA7626-CA adapter cable and 7626-50HC antenna cable are only required when installing the CELL-ANT3DB antenna remotely.

OTHER ACCESSORIES

7720P: HWF2-COM, HWF2A-COM and IPGSM-4G handheld programmer

HPTCOVER: Plug-in transformer box for HWF2V-COM, HWF2A-COM, and IPGSM-4G communicators

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

AGENCY LISTINGS AND APPROVALS

The listings and approvals below apply to the HWV2-COM Series communicators. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult the factory for latest listings.

UL Listed: S789

CSFM: 7300-1645:0511

FDNY: Approved

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.

Country of origin: USA

Honeywell Power Products
12 Clintonville Road
Northford, CT 06472-1610
877.HPP.POWR
www.honeywellpower.com

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Honeywell

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

LISTING No. 7165-0075:0214

CATEGORY: 7165 -- FIRE ALARM CONTROL UNIT (COMMERCIAL)

LISTEE: FIRE-LITE ALARMS INC.One Fire-Lite Place, Northford, CT 06410-1653
Contact: Pete Sennett (203) 484-7161 Fax (203) 484-7309
Email: pete.sennett@Honeywell.com

DESIGN: Model MS-5UD-3, MS-5UD-3E, MS-5UD-7, MS-5UD-7C, MS-5UD-7E, MS-10UD-3, MS-10UD-3E, MS-10UD-7, MS-10UD-7C AND MS10-UD-7E Fire alarm control units. The MS-5UD series has five input zones and the MS-10UD series has ten input zones. Both product lines have four notification appliance circuits, and three relay contact outputs for alarm, trouble and supervisory and include an integral two-line digital alarm communicator transmitter (DACT). The -3 suffix represents the 3 amp total power variant utilizing the FLPS-3 and the -7 suffix represents the 7 amp total power variant utilizing the FLPS-7. The "E" suffix represents 240 V ac 50 Hz rated products. The "C" suffix represents products that have the separately listed ANN-LED annunciator module already installed. * These Models are intended for the following applications: Local, Auxiliary, Remote station, Central Station, and Proprietary. Refer to listee's data sheet for detailed product description and operational considerations. System components:

FLPS-3:; Power Supply Module
FLPS-7; Power Supply Module
4XTMF; Transmitter Module
CAC-5X; Converter Module
ANN-LED; Annunciator Module
ANN-RLY; Relay Module
*ANN-SEC; Secondary ANN-BUS Module
*IPDACT; IP Digital Fire Alarm Communicatior

RATING: *120 VAC or 230 VAC primary, 24 VDC Secondary

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating and UL label.

APPROVAL: Listed as a fire alarm control unit for use with separately listed compatible initiating and indicating devices. Refer to manufacturer's installation manual for details. This control unit meets the requirements of UL Standard 864, 9th edition.

NOTE: For Fire Alarm Verification feature (delay of fire alarm), the retard/reset/restart period shall not exceed 30 seconds.

*Rev 04-23-15 gt

Date Issued: **July 01, 2019** *Listing Expires* **June 30, 2020**

Authorized By: ***DAVID CASTILLO,*** *Program Coordinator*

Fire Engineering Division

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

LISTING No. 7120-0075:0211

CATEGORY: 7120 -- ANNUNCIATORS

LISTEE: FIRE-LITE ALARMS INC.One Fire-Lite Place, Northford, CT 06410-1653
Contact: Pete Sennett (203) 484-7161 Fax (203) 484-7309
Email: pete.sennett@Honeywell.com

DESIGN: Model ANN-80 and *ANN-80W remote fire annunciators. Unit is a 80-character, supervised backlit LCD fire annunciator. Communication between the control panel and the annunciator is accomplished over a two-wire serial interface employing the ANN-BUS protocol. Refer to listee's data sheet for additional detailed product description and operational considerations.

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes & ordinances and in manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, product number, electrical rating and UL label.

APPROVAL: Listed as an annunciators for use separately listed compatible fire alarm control units. Refer to Manufacturers Installation Manual for details.

*Rev. 04-28-08 bh

Date Issued: **July 01, 2019** *Listing Expires* **June 30, 2020**

Authorized By: ***DAVID CASTILLO**, Program Coordinator*
Fire Engineering Division

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LISTING SERVICE

LISTING No. 7150-0075:0184

CATEGORY: 7150 -- FIRE ALARM PULL BOXES

LISTEE: FIRE-LITE ALARMS INC.One Fire-Lite Place, Northford, CT 06410-1653
Contact: Pete Sennett (203) 484-7161 Fax (203) 484-7309
Email: pete.sennett@Honeywell.com

DESIGN: Models BG-12, BG-12S, BG-12NC, BG-12W, BG-12LW, BG-12WP, BG-12LWP, BG-12L, BG-12LX, BG-12LA, BG-12PS, BG-12LSP, BG-12SP, BG-12LR, BG-12LRA, BG-12LAO, BG-12LAOB, BG-12-LO, BG-12LOB, BG-12LPS, BG-12LPSP, BG-12SL, UT-PS1 and UT-PS2 fire alarm pull boxes. The BG-12 series is a dual action pull station that has normally open switch contacts. Refer to listee's data sheet for detailed product description and operational considerations.

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number and UL label.

APPROVAL: Listed as fire alarm boxes for use with separately listed compatible fire alarm control units. Models BG-12WP, BG-12W, BG-12LW and BG-12LWP are intended for outdoor use when installed with Model WP-10 back box. Models BG-LAOB and BG-12LOB are intended for outdoor use when installed with Model WBB or WP-10 back box.

* These manual pull boxes meet the requirements of UL Standard 38, 1999 Edition and California amendments.

XLF: 7150-0028:0199

*Updated 08-17-09 fm

Date Issued: **July 01, 2019** *Listing Expires* **June 30, 2020**

Authorized By: ***DAVID CASTILLO**, Program Coordinator*

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LISTING SERVICE

LISTING No. 7272-1653:0152

CATEGORY: 7272 -- SMOKE DETECTOR-SYSTEM TYPE-PHOTOELECTRIC

LISTEE: System Sensor, Unincorporated Div of Honeywell Int'l Inc.3825 Ohio Ave, St. Charles, IL 60174
Contact: Megan Sisson (630) 762-5362 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: Models 2W-B, 2WT-B, 4W-B and 4WT-B photoelectric type smoke detectors. Models 2W-B and 2WT-B are 2-wire and model 4W-B and 4WT-B are 4-wire detectors. Models 2WT-B and 4WT-B employ a thermistor type heat sensor (135°F). The heat sensor is are supplemental to the detector and is not intended for use as a required heat detector. Refer to listee's printed data sheet for additional detailed product description and operational considerations.

RATING: 8.5 - 35 VDC

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction. For vertical wall or ceiling mount.

MARKING: Listee's name, model number, electrical rating and UL label.

APPROVAL: Listed as photoelectric smoke detectors for use with separately listed compatible fire alarm control units. Suitable for installation in open areas with air velocity range from 0-1000 ft/min.

NOTE: Formerly 7272-1209:210

06-20-05

Date Issued: **July 01, 2019** *Listing Expires* **June 30, 2020**

Authorized By: ***DAVID CASTILLO**, Program Coordinator*
Fire Engineering Division

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LISTING SERVICE

LISTING No. 7125-1653:0188

CATEGORY: 7125 -- FIRE ALARM DEVICES FOR THE HEARING IMPAIRED

LISTEE: System Sensor, Unincorporated Div of Honeywell Int'l Inc.3825 Ohio Ave, St. Charles, IL 60174
Contact: Megan Sisson (630) 762-5362 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: Models CHSR and CHSW Chime/Strobes.
Models P2R, P2W, P2RH and P2WH Horn/Strobes two-wire type, rectangular enclosure.
Models PC2R, PC2W, PC2RH and PC2WH Horn/Strobes two-wire type, round enclosure
Models P4R, P4W, P4RH and P4WH Horn/Strobes four-wire type, rectangular enclosure.
Models PC4R, PC4W, PC4RH and PC4WH Horn/Strobes* four-wire type, round enclosure.
All models are intended for indoor use only unless other wise indicated. Models may be followed by the suffix "K" indicating indoor or outdoor use, or may be followed by suffix "P" for plain housing with no lettering. "K" suffix models are suitable for outdoor applications at temperatures from -40°F to +151°F (-40°C to +66°C) and are rated NEMA 4X when used with the System Sensor weather proof back boxes models SA-WBB (Wall), SA-WBBW (Wall), SA-WBBC (Ceiling) and *SA-WBBCW (Ceiling). Refer to listee's data sheet for additional detailed product description and operational considerations.

RATING: Standard Horn/Strobes and Chime/Strobes 8 - 17.5 or 16-33 VDC/FWR
Hi CD Horn/Strobes 16-33 VDC/FWR

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating, and UL label.

APPROVAL: Listed as *horn/strobes or chime/strobes suitable for signaling appliances and equipment for the hearing impaired applications when used with separately listed compatible fire alarm control units. Horn/strobes with -K suffix are suitable for indoor or outdoor use, ceiling or wall mount. Chime section is suitable for private mode and indoor use only.
Horn/Strobes or chime/strobes* can generate the distinctive three-pulse audible Temporal Pattern Fire Alarm Evacuation Signal (for total evacuation) in accordance with NFPA 72, 2010 Edition. Refer to listee's Installation Instruction Manual for details.

*Corrected 12-15-11 bh

Date Issued: **July 01, 2019** *Listing Expires* **June 30, 2020**

Authorized By: ***DAVID CASTILLO,*** *Program Coordinator*

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LISTING SERVICE

LISTING No. 7300-1645:0511

CATEGORY: 7300 -- FIRE ALARM CONTROL UNIT ACCESSORIES/MISC. DEVICES

LISTEE: ADEMCO INC.2 Corporate Center Drive, Melville, NY 11747
Contact: Issa Khouryawad (516) 577-2312 Fax (516) 577-3540
Email: issa.khouryawad@Honeywell.com

DESIGN: Models HWF2A-COM and HWF2V-Com Commercial Internet and LTE Communicator. The unit uses the Internet as its primary reporting path, and switches to cell service (secondary path as backup) when the Internet is not available.
Refer to listee's product specification data sheets and installation, operation, and maintenance manual for detailed product description and operational considerations.

RATING: Primary - 120 VAC, 60 Hz
Secondary - 18 VAC, 5 VA

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating, and UL label.

APPROVAL: Listed as a control unit accessory for use with separately listed compatible commercial fire alarm control units. Intended for use with specific Honeywell Security control units that employ the ECP bus. Refer to listee's installation Instruction Manual for details.

05-29-2018 dcc

Date Issued: **July 01, 2019** *Listing Expires* **June 30, 2020**

Authorized By: ***DAVID CASTILLO,*** *Program Coordinator*

Fire Engineering Division