FIRE PROTECTION, INC.

17410 Ash Way, Ste 8
Lynnwood, WA 98037
(425) 290-9600

April 4, 2024

CITY OF PUYALLUP – FIRE PREVENTION

RE: FIRE ALARM INSTALLATION
HOMEWOOD SUITES
3500 S. MERIDIAN
PUYALLUP, WA 98373

NEW CONSTRUCTION OF A FULLY SPRINKLED (5) STORY WOOD FRAMED HOTEL. THE BUILDING WILL BE PROVIDED WITH A FULLY ADDRESSABLE FIRE ALARM SYSTEM WITH A REMOTE ANNUNICATOR LOCATED AT THE FRONT DESK. THE FIRE ALARM SYSTEM WILL PROVIDE TOTAL-COVERAGE DETECTION AS DEFINED IN 2019 NFPA-72 (17.5.3.1) AND PER CITY OF PUYALLUP's REQUIREMENTS. THE FIRE ALARM SYSTEM WILL BE INTERFACED WITH THE (5) STOP ELEVATOR TO PROVIDE PHASE 1 ELEVATOR RECALL. THE FIRE ALARM SYSTEM SHALL MONITOR ALL FIRE ALARM INITIATING DEVICES, THE ERRCS / DAS SYSTEM (IF INSTALLED), ALL FIRE SPRINKLER FLOW DEVICES, AND FIRE SPRINKLER SUPERVISORY DEVICES. AUDIBLE AND VISIBLE OCCUPANT NOTIFICATION WILL BE PROVIDED THROUGHOUT ALL COMMON AREAS. TOTAL COVERAGE SMOKE DETECTION WILL BE PROVIDED THROUGHOUT THE BUILDING, INCLUDING ABOVE AND BELOW ALL SUSPENDED CEILINGS. SMOKE DETECTORS WITH 520Hz LOW FREQUENCY SOUNDER BASES WILL BE INSTALLED IN ALL HOTEL GUESTROOMS. FIRE ALARM VISIBLE OCCUPANT NOTIFICATION DEVICES SHALL BE PROVIDED IN GUESTROOMS WITH COMMUNICATION FEATURES PER ADAS 224.4 AND ACTIVATED BY THE ASSOCIATED GUESTROOM SMOKE DETECTORS AND/OR THE BUILDINGS FIRE ALARM SYSTEM. ACTIVATION OF THE GUESTROOM SMOKE DETECTORS WILL BE A LOCAL ONLY SUPERVISORY SIGNAL; IT WILL NOT DISPATCH THE FIRE DEPARTMENT. ACTIVATION OF THE FIRE ALARM SYSTEM SHALL ACTIVATE THE OUTDOOR HORN/STROBE, ALL AUDIBLE / VISUAL OCCUPANT NOTIFICATION DEVICES, ALL 520Hz LOW-FREQUENCY SMOKE DETECTOR SOUNDER BASES IN GUESTROOMS, RELEASE MAGNETICALLY HELD FIRE DOORS, AND CLOSE FIRE/SMOKE DAMPERS IN RATED WALLS.

INSTALLATION COMPANY

Fire Protection, Inc.
17410 Ash Way Ste 8, Lynnwood, WA 98037
WSCL# FIREPI*021ML UL CERT #608242-002

APPROVED UL MONITORING COMPANY

Securitas / FPI
4300 3rd Ave. SE Lacey, WA 800-429-0991
UL CERT #902799-02

Should you have any further questions, please feel free to contact me directly.

DAVID MOW, SET
NICET IV #120904
VP of Operations / Designer of Record

E3 Series® Control Panel

Description

The E3 Series® Expandable Emergency Evacuation System by Gamewell-FCI is in the forefront of the latest generation of fire alarm control panels. Employing the new high-speed Velociti® sensors, the E3 Series provides previously unattainable polling speed and response together with the flexibility demanded by today's emergency evacuation systems. In addition to their high-speed polling rate, the Velociti Series of sensors feature bi-polar LEDs that flash green for normal polling, and light red steadily to indicate an alarm.

The E3 Series is equipped with an 80-character LCD-E3 alphanumeric LCD display that allows 40 characters to be user-defined for custom installations. Up to six keyboard LCD displays may also be remotely located. In addition, you can install five of the familiar LCD-7100/RAN-7100 remote displays. The displays show instant system status information and can be connected in any desired area of an installation.

A high-speed 32-bit processor easily tackles a wide array of applications from small office buildings to multi-complex, high-rise installations.

The 64 node networking is made possible by 625K baud/ ARCNET communications using twisted-pair copper cable, fiber-optic cable, or a combination of both. In addition, the Addressable Node Expander (ANX) board expands the network to 122 nodes.

The basic E3 Series is equipped with an ILI-MB-E3/ILI95-MB-E3 Intelligent Loop Interface-Main Board, ILI-S-E3/ ILI95-S-E3 Intelligent Loop Interface Expansion Board, ANX, and ASM-16 Addressable Switch Module that features 16 software programmable switches, each accompanied by red, green and yellow LEDs that can be programmed to indicate operation of the switches. Additional ASM-16 modules may be added to expand the operation to a plateau previously unimagined.

The Intelligent Loop Interface - Expansion Board (ILI-S-E3/ ILI95-S-E3 provides the E3 Series control panel with two additional electrically isolated signaling line circuits. The layout is similar to the ILI-MB-E3/ILI95-MB-E3 with the exception that a number of components are omitted. It occupies one node on the Broadband network.

Expandable Emergency Evacuation System

E3 Series

Features

- IBC Seismic Certified.
- Listed under UL® Standard 864, 9th Edition.
- UL Listed for smoke control (dedicated and non-dedicated) when properly configured.
- UL Listed and FM Approved for Pre-action/Deluge and Agent Releasing.
- Styles 4, 6, or 7* signaling line circuits.
- Two to 244 SLCs each supporting 159 sensors, 159 modules and 159 addressable sounder bases.
- 625K baud ARCNET communications using wire, fiber, or mixed configurations for installation flexibility.
- High-speed 32 bit processor and 8100 event history log.
- Advanced Boolean logic-based programming such as AND, OR, NOT, time delay and calendar functions configurable via computer programming.
- Supports up to (16), ASM-16 addressable switch or ANU-48 LED driver modules per ILI-MB-E3/ILI95-MB-E3.
- Two Class A, Style Z or Class B, Style Y, notification appliance circuits rated at 2.0 amps. per circuit.
- Integral city connection.
- Flexible 115,200 baud high speed RS-232 interface.
- 40 character user-defined text per device.
- 15 LCD-SLP displays/annunciators, 6 LCD-E3 displays/ annunciators, 5 LCD-7100/RAN-7100 remote LED annunciators per ILI-MB-E3/ILI95-MB-E3.

**Style 7 wiring requires the use of System Sensor M500X Isolator Modules.*

SIGNALING

UL LISTED S1869

FM APPROVED 3025415

MEA Approved FDNY #: 6175 COA # 231-06-E

7165-1703:0125

City of Chicago Approved Class1 Class2 High Rise

City of Denver Approved

THE VMC GROUP Reference Certificate of Compliance VMA-45894-02C (Revision 1)

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS

GAMEWELL-FCI
12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118

www.gamewell-fci.com

Description (Continued)

Each ILI-MB-E3/ILI95-MB-E3 can support as many as sixteen ANU-48 LED Driver modules supporting hundreds of LEDs on a 3rd party graphic annunciator for remote annunciation. The ANU-48 modules may be installed in any Listed remote annunciator. It can be remotely located via an RS-485 serial interface.

An array of cabinets allows for neat, compact, attractive installations.

Installation

The E3 Series expandable emergency evacuation system offers four cabinet size options. A typical cabinet includes a backbox, an inner door, and an outer door. The E3 Series cabinet assembly is a compact 19 3/8" (49 cm) wide. wall-mounted enclosure.

Cabinet A includes the following four options:

- Cabinet A1 inner door mounted to the backbox. The backbox houses one NGA module.
- Cabinet A2 inner door mounted to the backbox. The backbox houses one LCD-E3 module.
- Two or three-bay inner door mounted to the backbox. The backbox typically houses one LCD-E3, or one NGA, and one or two ASM-16 modules.

Cabinet B contains a space for the ILI-MB-E3/ILI95-MB-E3, PM-9/PM-9G modules and batteries set inside the backbox. Additional module options mounted on the backbox include the DACT-E3, and RPT-E3 or ILI-S-E3/ILI95-S-E3/ANX. The 2-bay inner door houses one LCD-E3 module and one ASM-16 module.

Both Cabinets C and D include the following:

- Pre-assembled outer door that gives visibility to the fire fighter's phone handset and a microphone voice messaging system.
- Two inner door panel selections that may contain optional modules to meet the facility operation requirements.

In the Cabinet B, C and D backboxes, the ANX appears in the same place as the ILI-MB-E3/ILI95-MB-E3 and PM-9/PM-9G. For information on the installation instructions for any of the E3 Series cabinets, refer to the E3 Series® Expandable Emergency Evacuation Manual
Part Number: LS10080-051GF-E.

Specifications

Operating Voltage:	24 VDC
Operating Temperature:	Not to exceed the range of 32° to 120° F (0 to 49° C)
Relative Humidity:	Not to exceed 93% non-condensing at 90° F (32° C)

Features (Continued)

Velociti® Intelligent Sensor Features:

- Poll 318 devices in less than two seconds.
- Activate up to 159 outputs in less than five seconds.
- LED's blink associated device address during Walk Test.
- Fully digital, hi-precision protocol.
- Up to 9 levels of sensitivity adjustment.
- Pre-Alarm adjustable between 15 levels for both Alert and Action.
- Day/night automatic sensing adjustment.
- Sensitivity windows:
  - Ion .05 to 2% obscuration.
  - Photo 1 to 3% obscuration.
  - Laser .02 to 2% obscuration.
  - MCS Acclimate2F .5 to 4%, also self-adjustable options 1 to 2%, 2 to 3%, and 3 to 4%.
  - HARSH 1 to 3% obscuration.
- Drift compensation.
- Each Loop Card has its own integral processor providing maximum survivability on loss of any other component. SLC provides full response on loss of any other system processor.
- Optional programmable switches can be configured to enable, disable or group any combination of output devices.
- Integrated point or Grouped Cross Zoning allows for numerous devices installed at any location to cooperate and determine alarm condition.
- Automatic detector sensitivity testing.
- DIRTY and VERY DIRTY detector maintenance alerts.

Ordering Information

Part Number	Description
ILI-MB-E3	Intelligent Loop Interface-Main Board
ILI95-MB-E3	Intelligent Loop Interface-Main Board
ILI-S-E3	Intelligent Loop Interface-Expansion Board
ILI95-S-E3	Intelligent Loop Interface-Expansion Board
ANX-SR	Addressable Node Expander-Single Ring
ANX-MR-FO	Addressable Node Expander-Multi-Ring Fiber Optic
ANX-MR-UTP	Addressable Node Expander-Multi-Ring Twisted-pair
LCD-E3	LCD-E3, LCD Keypad Display
RPT-E3-UTP	Network Repeater, unshielded, twisted-pair
FML-E3	Multi-Mode Fiber-Optic Module
FSL-E3	Single-Mode Fiber-Optic Module
DACT-E3	Digital Alarm Communicator Transmitter
ANU-48	ANU-48 LED Driver Module
ASM-16	Addressable Switch Module
NGA	LCD Network Graphic Annunciator
PM-9	Power Supply Module
PM-9G	Power Supply Module
LCD-7100	Remote LCD Display
RAN-7100	Remote LCD Display

For additional information on the cabinets, refer to the E3 Series Cabinets data sheet (Part Number: 9020-0649).

Seismic Battery Bracket Kits

For information on the types of Seismic Battery Bracket Kits that are available, the Seismic Battery Bracket Kit Part Numbers and the installation instructions, refer to the following documents:

- Seismic Battery Bracket Installation Guide, P/N: 53839
- E3 Series Cabinets Data Sheet, P/N: 9020-0649

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Gamewell FCI

PM-9

120 VAC Power Supply

General

The Gamewell-FCI, PM-9 Power Supply is a 120 VAC, 60 Hz switching power supply that provides 9 amperes of filtered and regulated 24 VDC (nominal). It provides the power to all of the E3 Series components.

It is a component of the following systems:

- E3 Series® Expandable Emergency Evacuation System
- E3 Series Combined Fire and Mass Notification System
- E3 Series Broadband Voice Evacuation System

The PM-9 has an internal battery charging circuit capable of maintaining up to 55 A/H batteries.

PM-9

Installation

Typically, the PM-9 Module can be mounted in the following E3 Series cabinets:

- Cabinet B backbox
- Cabinet C, INX-E3 sub-assembly plate
- Cabinet C, INCC-E3 sub-assembly plate
- Cabinet D, E3-INX-D Plate
- Cabinet D, E3-ILI-D Plate
- Retrofit Kits

For information on the installation of the PM-9, refer to the following documents:

- E3 Series Expandable Emergency Evacuation Manual, P/N: LS10080-000GF-E
- PM-9 Installation Instructions, P/N: 9000-0548
- Mass Notification System Manual, P/N:LS10013-000GF-E

Ordering Information

PM-9: Power supply and battery charger, 120 VAC

29229: AC Line Filter Kit

FEATURES & BENEFITS

- Listed under UL® Standard 864, 9th Edition
- Listed under UL Standard UL2572 for Mass Notification
- Includes 9 ampere, filtered, regulated power supply
- Provides 1 ampere battery charging current
- Offers energy and space saving switching technology
- Contains an integral battery charger capable of recharging up to 55 AH batteries. (Batteries not furnished)

PM-9 Technical Specifications

SYSTEM

Input Voltage: 120 VAC 60 Hz @ 3.5 A. max.
Output Voltage: 24 VDC (nominal) FWR
Output Current: 9 amperes
Output Current: 1 ampere battery charging current
Alarm Current: 0.050 amp
Operating Temperature: 32° to 120° F (0° to 49° C)
Relative Humidity: 0 to 93% (non-condensing) at 90° F (32° C)
Dimensions: 10 1/2" W x 5" H x 2" D (27 x 13 x 5 cm)

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.

STANDARDS

The PM-9 is designed to comply with the following standards:

UL Standards: UL 864 9th Edition
UL 2572 for Mass Notification

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult the factory for the latest listing status.

UL Listed: S1869, Vol. 14
UL Listed: S1949, Vol. 19
FM Approved: 3017416
MEA FDNY: COA 6077
CSFM: 7165-1703:0125
City of Chicago Approved: Class 1, Class 2,High Rise
City of Denver Approved
ISO 9001 Certification

For a complete listing of all compliance approvals and certifications, please visit: http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx

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For more information
Learn more about Gamewell-FCI's PM-9 and other products available by visiting www.Gamewell-FCI.com

Honeywell Gamewell-FCI
12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.honeywell.com

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LCD-E3

LCD Keypad Display

General

The LCD-E3 (Liquid Crystal Display) is the main panel's, keypad display for the E3 Series® Expandable Emergency Evacuation System. It includes indicating LEDs and operating switches. Up to six LCD-E3 displays may be located locally or remotely from the fire alarm control panel via a local RS-485 bus and connect to the following modules:

- E3 Series control panel
- ILI-MB-E3/ILI95-MB-E3
- S3 Series control panel
- SLP-E3 (Smart Loop Panel)

The LCD-E3 includes an LCD display for the system status and the following Switches and LED indicators:

LCD-E3

Switches	LED Indicators
Alarm Acknowledge	AC Power On (green)
System Reset/Lamp Test	Alarm (red)
Signal Silence	Supervisory (yellow)
Trouble Acknowledge	System Trouble (yellow)
12 button keypad	Power Fault (yellow)
Function buttons:	Ground Fault (yellow)
Menu/Back	System Silenced (yellow)
Back Space/Edit	
OK	

Installation Options

The LCD-E3 is adaptable for installation in any of the following E3 Series System cabinets.

CABINET	PART NUMBER
"A" Size Cabinet, Inner Door	E3ID2-A
"A2" Flush Cabinet	E3BB-FLUSH-LCD
"A2" Size Cabinet, Inner Door	E3ID-A2
"B" Size Cabinet, Inner Door	E3ID2-B
B-Slim Cabinet, Outer Door	E3BB-RBSLIM
7200 B Retrofit, Inner Door	7200-B-RETROFIT
IF600 Retrofit, Outer Door	IF600-RETROFIT
"C" size Cabinet, Inner Door	E3ID2-C
600XL Retrofit, Inner Door	600XL-RETROFIT
7200 C Retrofit, Inner Door	7200-C-RETROFIT
"D" Size Cabinet, Inner Door	E3ID2-D

Ordering Information

LCD-E3: LCD keypad display

FEATURES & BENEFITS

- Listed under UL Standard 864, 9th Edition
- Provides an 80-character display of system events together with indicating LEDs and control switches
- Offers a legible backlit LED display, with low power consumption
- Up to six LCD-E3 displays, any or all of which, my be remotely located via the RS-485 Serial interface can be supported by the following modules:
  - E3 Series
  - ILI-MB-E3
  - ILI95-MB-E3
  - S3 Series
  - SLP-E3
- The E3 Series, ILI-MB-E3/ILI95-MB-E3 or S3 Series, SLP can support up to six LCD-E3 displays, any or all of which may be remotely located via the RS-485 serial interface

LCD-E3 Technical Specifications

SYSTEM

Operating Voltage:
24 VDC FWR (from PM-9 power supply)

Operating Current: 0.024 amp

Alarm Current: 0.028 amp

Operating Temperature: 32° to 120° F (0° to 49° C)

Relative Humidity: 0 to 93%, non-condensing at 90° F (32° C)

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.

STANDARDS

The LCD-E3 is designed to comply with the following standard:
UL Standard: UL 864 9th Edition

AGENCY LISTINGS AND APPROVALS

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UL Listed: S1869
FM Approved: 3025415
MEA Approved, FDNY: COA# 6077
CSFM: 7165-1703-0125
City of Chicago: Class 1, Class 2 and High Rise
City of Denver
ISO 9001 Certification

For a complete listing of all compliance approvals and certifications, please visit: http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx

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For more information
Learn more about Gamewell-FCI's LCD-E3 and other products available by visiting www.Gamewell-FCI.com

Honeywell Gamewell-FCI
12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.honeywell.com

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ILI-E3 SERIES

Intelligent Loop Interface-Main Board

The ILI-E3 Series is the main board interface used with the E3 Series® System.

ILI-MB-E3

ILI-S-E3

GENERAL

ILI-MB-E3

The Intelligent Loop Interface-Main Board (ILI-MB-E3) is the main interface for the E3 Series® product line. With its state-of-the-art 32 bit RISC processor, this compact "panel on a board" provides a powerful addition to the Gamewell-FCI's single-pair conductor solutions. The ILI-E3 Series is used in the following systems:

- E3 Series Expandable Emergency Evacuation System
- E3 Series Combined Fire and Mass Notification System
- E3 Series Broadband Voice Command Center

This intuitive design provides the following features:

- two signaling line circuits
- auxiliary power output
- local energy city box output
- auxiliary relay functions
- two notification application circuits

These features, combined with the built-in network and the serial protocols, allow this module to support a host of new and existing products, resulting in a building block approach to the fire alarm control panel design.

The ILI-MB-E3 is network-ready and occupies 1 of 64 nodes operating at 625K baud.

In addition, the Addressable Node Expander (ANX) board expands the network to 122 nodes. When this sub-assembly is integrated with proven Broadband components, the result is a flexible yet powerful integrated audio solution. When the system transmits to remote locations, the optional RPT-E3-UTP provides the ILI-MB-E3 with valuable signal boosting and transient protection, as well as connectivity using both wire and fiber-optic cables.

The ILI-MB-E3 provides two signaling line circuits and terminals for the connections to up to 159 detectors, 159 modules and 159 addressable sounder bases per SLC in Velociti® mode. In CLIP™ mode, each SLC supports 99 detectors and 99 modules. The RS-485 interface can support a variety of peripheral devices.

The ILI-MB-E3 relay outputs include system alarm, supervisory, and system trouble contacts. The ILI-MB-E3 provides output for a local energy city master box or remote location which is non power-limited. All other wiring is Class 2 power-limited.

*Class X wiring requires the use of the System Sensor M500X Isolator Modules.

FEATURES AND BENEFITS

ILI-MB-E3 & ILI-S-E3:

- Listed under UL® Standard 864, 10th Edition
- Listed under UL Standard UL2572, 2nd Edition for Mass Notification
- UL Listed and FM Approved for Pre-Action/ Deluge and Agent Releasing
- Provides signaling line circuits with the following:
  - 2 Class A, Class X* or Class B circuits
  - 40 Character user- defined text per device
- Offers a capacity of 159 sensors, 159 addressable modules and 159 addressable sounder bases per circuit
- Includes 8100 Event History Log
- Uses a network ready integral 625K baud ARCNET
- Supports 115.2K baud RS-232

ILI-MB-E3 Only:

- Automatically adjusts to any NAC End-of-Line Resistor (EOL) value (1k-55k ohm) for legacy audible/visual appliances
- Two notification appliance circuits, Class "A" or Class B, rated at 2.0 amps. per circuit
- Offers an RS-485 supporting 16 ASM-16 switch modules and/or ANU-48 LED driver modules

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ILI-S-E3

The Intelligent Loop Interface - Expansion Board (ILI-S-E3) provides the E3 Series control panel with two additional electrically isolated signaling line circuits. The layout is similar to the ILI-MB-E3 except a number of components are omitted. The ILI-S-E3 occupies one node on the Broadband network. The ILI-S-E3 provides two signaling line circuits and terminals for the connections to up to 159 detectors, 159 modules and 159 addressable sounder bases per SLC in Velociti mode. In CLIP mode, each SLC supports 99 detectors and 99 modules.

Installation

Typically, the ILI-MB-E3 or ILI-S-E3 can be mounted in the following E3 Series cabinets:

- Cabinet B Backbox
  - B-Slim-E3
- Cabinet C Backbox
  - E3-ILI-CPLATE
  - E3-INCC-CPLATE
  - E3-INX-CPLATE
- Cabinet D Backbox
  - E3-INCC-DPlate
  - E3-INX-DPLATE

ILI-MB-E3/ILI-S-E3

For instructions on the installation of the ILI-MB-E3 or ILI-S-E3, refer to the following documents:

- E3 Series® Expandable Emergency Evacuation Manual, Part Number: LS10080-051GF-E
- ILI-MB-E3 Installation Instructions, Part Number: 9000-0579
- ILI-S-E3 Installation Instructions, Part Number: 9000-0569

For information on the ILI95-MB-E3 and ILI95-S-E3, refer to the ILI95-E3 Series Data Sheet, Part Number, 9021-60336.

For information on the ANX, refer to the ANX Data Sheet, Part Number, 9021-60497.

ORDERING INFORMATION

ILI-MB-E3: Intelligent Loop Interface-Main Board

ILI-S-E3: Intelligent Loop Interface-Expansion Board

ILI-E3 SERIES TECHNICAL SPECIFICATIONS

SYSTEM

ILI-MB-E3 only:
ILI-MB-E3 Operating Current: 0.081 amp
ILI-MB-E3 Alarm Current: 0.150 amp max.
ILI-S-E3 Operating Current: 0.118 amp
ILI-S-E3 Alarm Current: 0.119 amp
ILI-MB-E3 and ILI-S-E3:
Operating Voltage: 24 VDC FWR (from the PM-9/PM-9G Power Supply)
Operating Temperature: 32° to 120° F (0° to 49° C)
Relative Humidity: 0 to 93%, non-condensing at 90° F (32° C)
Supervised
Class 2 Power-Limited
SLC 40 Ohms maximum line impedance 0.5 uF maximum line capacitance

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.

STANDARDS

The ILI-E3 Series are designed to comply with the following standards:

UL Standards: UL 864, 10th Edition
UL 2572, 2nd for Mass Notification

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult the factory for the latest listing status.

UL Listed: S1869
UL 864, 10th Edition
UL 2572, 2nd Edition for Mass Notification
FM Approved: 3025415
MEA FDNY: COA# 6077
CSFM: 7165-1703-0125
City of Chicago: Class 1, Class 2 and High Rise
City of Denver:
ISO 9001 Certification:

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Country of origin: U.S.A.

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12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.gamewell-fci.com

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Gamewell FCI

ASM-16

ASM-16 Addressable Switch Module

General

The Gamewell-FCI, ASM-16 Addressable Switch Module serves as the point of interface between an operator and the system's audio evacuation, fire fighter intercom, and building control circuits. It is a component of the following systems:

- E3 Series® Expandable Emergency Evacuation System
- E3 Series Combined Fire and Mass Notification System
- E3 Series Broadband Voice Evacuation System

The ASM-16 is a configurable switch input sub-assembly with 16 switches and 48 status LEDs. It may be remotely located via the RS-485 serial interface. Each ASM-16 addressable switch module has 16 push-button switches that can be programmed to serve any function the application demands.

ASM-16 Front View

ASM-16 Rear View

An ASM-16 switch can be programmed to operate as any of the following functions:

- Speaker circuit switch
- Auxiliary control switch (using a bank of 2 switches 1 switch each for on-off-auto functions).
- Fire fighter phone switch
- Switches with custom-defined functions:
  - System Reset
  - System Silence
  - System Acknowledge
  - All-call, phone patch
  - Lamp test, alarm tone on
  - Manual select, etc.

Each ASM-16 switch has three fully programmable LEDs that appear in red, yellow, and green. These LEDs can be programmed to work in concert with their associated pushbutton switch or they can be programmed to work independently as status indicators (for example, ON, OFF, NORMAL etc.). An INI-VGC assembly or ILI-MB-E3/ ILI95-MB-E3 can accommodate up to 16 ASM-16 modules for a total of 256 switches and 768 LEDs.

Ordering Information

1100-0455: Programmable Addressable Switch Module

FEATURES & BENEFITS

- Listed under UL® Standard 864, 9th Edition
- Listed under UL® Standard UL2572 for Mass Notification
- Each INI-VGC supports up to 16 ASM-16 switch modules for a total of 256 switches
- All switch functions are fully software programmable
- Each ILI-MB-E3/ ILI95-MB-E3 supports up to 16 ASM-16 switch modules for a total of 256 switches
- Each ASM-16 switch has three fully programmable status, indicating LEDS: red, yellow, and green
- Slip-in label inserts allow easily modified switch designations

ASM-16 Technical Specifications

SPECIFICATIONS

Operating Voltage: 24 VDC (nominal) (from the PM-9/PM-9G power supply)

Operating Current: 0.011 amp. (with no LEDs lit)

Each LED draws 3mA when active.

With all 48 LEDs activated, the ASM-16 draws 155 mA.

Operating Temperature: 32° to 120° F (0° to 49° C)

Relative Humidity: 0 to 93% (non-condensing) at 90° F (32° C)

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.

STANDARDS

The ASM-16 is designed to comply with the following standard:

UL Standard: UL 864 9th Edition
UL 2572 for Mass Notification

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult the factory for the latest listing status.

UL Listed: S1869, UL 2572

FM Approved: 3017416

MEA FDNY: COA 231-06-E

CSFM: 7165-1703:0125, 7165-1703:0126

City of Chicago Approved: Class 1, Class 2,High Rise

City of Denver Approved

ISO 9001 Certification

For a complete listing of all compliance approvals and certifications, please visit: http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx

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

Learn more about Gamewell-FCI's ASM-16 and other products available by visiting www.Gamewell-FCI.com

Honeywell Gamewell-FCI
12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.honeywell.com

9020-0554 | P | 09/17

Honeywell

LCD-E3

LCD Keypad Display

Description

The LCD-E3 provides the main panel display of the E3 Series® Expandable Emergency Evacuation System with indicating LEDs and operating switches. Up to six (6), LCD-E3 displays may be locally or remotely located from the panel via a local RS-485 bus of the E3 Series, ILI-MB-E3/ILI95-MB-E3 or the S3 Series, SLP (Smart Loop Panel) sub-assembly.

The LCD-E3 includes an LCD display for the system status and the following switches and LED indicators:

Switches

- Alarm acknowledge
- Trouble acknowledge
- Signal silence
- System reset/lamp test
- Function buttons:
  - menu/back
  - back space/edit
  - OK
- 12 button keypad

LED Indicators

• AC Power On	(green)	• Power Fault	(yellow)
• Alarm	(red)	• Ground Fault	(yellow)
• Supervisory	(yellow)	• System Silenced	(yellow)
• System Trouble	(yellow)		

Installation Options

The LCD-E3 is adaptable for installation in any of the following E3 Series System cabinets.

Cabinet	Part Number
• “A” size cabinet, inner door	E3ID2-A
• “A2” flush cabinet	E3BB-FLUSH-LCD
• “A2” size cabinet, inner door	E3ID-A2
• “B” size cabinet, inner door	E3ID2-B
• B-Slim cabinet, outer door	E3BB-RBSLIM
• 7200 B Retrofit, inner door	7200-B-RETROFIT
• IF600 Retrofit, outer door	IF600-RETROFIT
• “C” size cabinet, inner door	E3ID2-C
• 600XL Retrofit, inner door	600XL-RETROFIT
• 7200 C Retrofit, inner door	7200-C-RETROFIT
• “D” size cabinet, inner door	E3ID2-D

Specifications

Operating Voltage:	24 VDC FWR (from PM-9 power supply)
Operating Current:	0.024 amp
Alarm Current:	0.028 amp
Operating Temperature:	32° to 120° F (0° to 49° C)
Relative Humidity:	0 to 93%, non-condensing at 90° F (32° C)

E3 Series® is a registered trademark of Honeywell International Inc.

LCD-E3

Features

- Listed under UL Standard 864, 9th Edition.
- Provides an 80-character display of system events together with indicating LEDs and control switches.
- The E3 Series, ILI-MB-E3/ILI95-MB-E3 or S3 Series, SLP can support up to six LCD-E3 displays, any or all of which may be remotely located via the RS-485 serial interface.
- Offers a legible backlit LED display, with low power consumption.

Ordering Information

Part Number	Description
LCD-E3	LCD keypad display

SIGNALING UL LISTED S1869 · FM APPROVED 3025415 · MEA Approved FDNY: COA #6077 · 7165-1703:0125 · City of Chicago Approved Class1 Class2 High Rise · City of Denver Approved

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS

GAMEWELL-FCI
12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118

www.gamewell-fci.com

2.5.1.2 LCD-E3 Installed to the E3BB-FLUSH-LCD, CAB A2 Front Cover

1. Mount the keyswitch to the E3BB-FLUSH-LCD Flush Mount Front Cover. Insert and secure one nut (3/4-24 THD Hex) as shown in Location 1 of the figure below.
2. Attach the keyswitch cable to the key as shown in Location 2 of the figure below.
3. Mount the LCD-E3 keypad to the E3BB-FLUSH-LCD Flush Mount Front Cover. Insert and secure eight nuts (#6-32, Hex Kep) into the eight-hole mounting pattern as shown in Location 3 of the figure below.
4. Plug-in the P2 keyswitch cable to the W2 terminal on the LCD-E3 display panel as shown in Location 4 of the figure below.

   (For information on the location of the P2 and W2 terminal on the LCD-E3 panel, refer to Note 1 on the LCD-E3 Wiring Diagram in Figure 3.4.1).
5. To connect the LCD-E3 panel wiring on TB1, refer to TB1 in the LCD-E3 Wiring Diagram in Section 3.4.
6. Attach the E3BB-FLUSH-LCD Flush Mount Front Cover to the Backbox. Insert and secure eight, screws (#6-32 x 3/8" PHBHD, BLK) into the eight-hole mounting pattern as shown in Location 5 of the figure below.

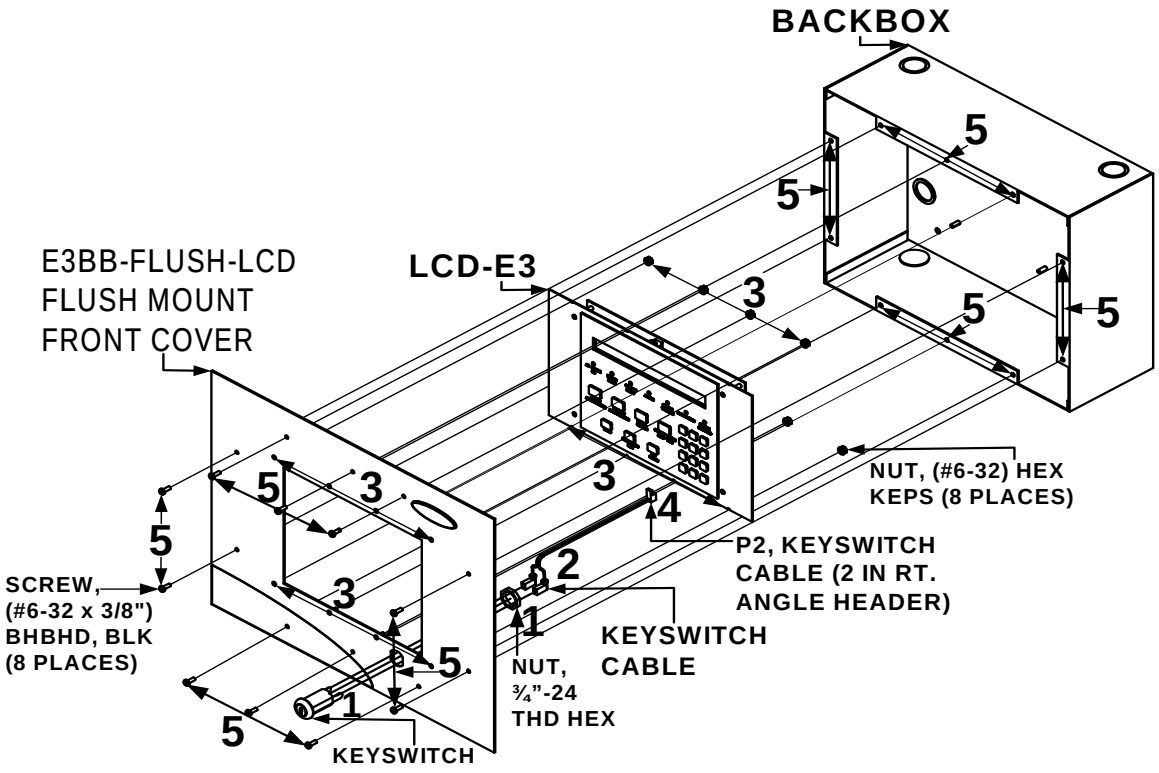

Figure 2.5.1.2.1 LCD-E3 Installed to the E3BB-FLUSH-LCD, CAB A2 Front Cover

Addressable Devices

MS-7 Series

Manual Fire Alarm Pull Stations

General

The Gamewell-FCI, MS-7 Series manual fire alarm pull stations are available in a wide variety of configurations. The pull stations comply with the Americans with Disabilities Act (ADA) 5-lb. maximum pull force requirement. Operating instructions and Braille text are engraved in the handle. All pull stations include a key lock/reset which is keyed alike with the Gamewell-FCI fire alarm control panels and other manual fire alarm pull stations.

MS-7 Series

MS-7AF Velociti Addressable Station

The MS-7AF Velociti® Series addressable station is a double action pull station designed for installation in the signaling line circuit of Gamewell-FCI analog addressable control panels. Activation of the pull station causes its assigned address to register at the fire alarm control panel. The door contains an LED which flashes green in normal condition and lights steady red when the station has been activated.* The station features screw terminals.

MS-7ASF Velociti Addressable Station

The MS-7ASF Velociti® Series addressable pull station is a single action station designed for installation in the signaling line circuit of Gamewell-FCI analog addressable control panels. Activation of the station causes its assigned address to register at the control panel. The door contains an LED which flashes green in normal condition and lights steady red when the pull station is activated.* The station features screw terminals.

The Velociti® Series pull stations use a communication protocol that substantially increases the speed of communication between the sensors and certain Gamewell-FCI analog addressable fire alarm controls. These devices operate in a grouped fashion. If one of the devices in the group has a status change, the panel's microprocessor stops the group poll and focuses on the single device. The net effect offers a response speed up to five times greater than earlier designs.

MS-7 Double Action Station

The MS-7 double action pull station is used with conventional fire alarm control panels. It features a set of single pole contacts and screw terminals for connection to an initiating circuit.

FEATURES & BENEFITS

- Addressable stations compatible with all Gamewell-FCI analog addressable fire alarm controls
- Conventional stations suitable for use with any UL® Listed control panel
- The pull stations (MS-7LOB) are Listed for outdoor applications
- Complies with ADA pull force requirements
- Offers surface or semi-flush mounting
- Shock and vibration resistant
- Both single and double action pull stations available
- Includes a tumbler lock for test and reset keyed alike with analog addressable fire alarm controls

*Only the red LED is operative in panels that do not operate in Velociti mode

MS-7S Single Action Station

The MS-7S single action pull station is used with conventional fire alarm control panels. It features a set of single pole contacts and wire leads for connection to an initiating circuit.

MS-7SP Double Action Station

The MS-7SP is a double action pull station similar to the MS-7 station, with the additional feature of including both English and Spanish instructions molded into the unit.

MS-7LR Dual-action Agent Release Station

The MS-7LR is designed for use with the Gamewell-FCI fire alarm control panels with releasing capabilities and Flex Series releasing systems. It features a set of single pole contacts and screw terminals used to connect to an initiating circuit.

MS-7LRA Agent Release Station with Abort

The MS-7LRA is designed for use with the Gamewell-FCI fire alarm control panels with releasing capabilities and Flex Series releasing systems where system abort capabilities are required. It consists of the following:

- An MS-7LR mounted on a plate with an abort switch
- LED indicators that signal system normal and system activated status

MS-7LOB Double Action Station (Listed for Outdoor Applications)

The MS-7LOB station must be mounted on a Model SB-I/O backbox. In retrofit applications, the pull station is UL Listed for use with the WP-10 backbox. It is intended for use with conventional control panels and has a set of single pole contacts and screw terminals.

Mounting

The MS-7 interior pull stations may be surface mounted or semi-flush mounted on a standard double-gang, or 4-inch (10.2 cm) square electrical box. An optional trim ring (BG12TR) may also be used for semi-flush mounting.

NYC-Plate

The NYC-Plate provides the backplate for the manual pull station. (See Figure 1).

Figure 1 NYC-Plate

Ordering Information

MS-7: Double action station

MS-7AF:** Velociti addressable double action station

MS-7ASF:** Velociti addressable single action station

MS-7S: Single action station, wire leads

MS-7SP: Double action station, English and Spanish instructions

MS-7LR: Agent release station, dual-action

MS-7LRA: Agent release station with abort switch, LED indicators, dual- action

MS-7LOB: Double action station, outdoor use (Includes SB-I/O - Indoor/outdoor use backbox)

SB-I/O: Indoor/outdoor use backbackbox

SB-10: Surface backbox

BG12TR: Trim ring for semi-flush mount, plastic

NY-PLATE: NYC backplate for manual pull station

**For use with the Gamewell-FCI analog addressable control panels only.

MS-7 Series Technical Specifications

SYSTEMS

Material: Lexan®
Contact Ratings: 0.25 amps. @ 30 VAC/VDC (resistive)
Dimensions: 5 5/8" H x 4 1/4" W x 1 1/4" D
(14 x 10.1 x 3.2 cm)
Operating Temperature:
(MS-7AF, MS-7ASF): 32° to 120° F (0° to 49° C)
(MS-7LOB): -30° to 150° F (-35° to 66° C)
Relative Humidity :
(MS-7AF, MS-7ASF): 10 to 93% (non-condensing)
(MS-7LOB): 85% ± 5% @ 86° ± 3.6° (30° ± 2° C)
Alarm Current: .0030 amp. 0.007 for LED
Supervisory Current:
(MS-7AF, MS-7ASF): .00030 amps.

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.

STANDARDS

The MS-7 Series is designed to comply with the following standard:
UL Standard: UL 864 9th Edition

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. 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: S2465
FM: 3023594
MEA FDNY: 67-02-E Vol. VII
CSFM:
7160-1703:0119
7160-1703:0170
7160-1703:0109
ISO 9001 Certification

For a complete listing of all compliance approvals and certifications, please visit: http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx

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
Learn more about Gamewell-FCI's MS-7 Series and other products available by visiting www.Gamewell-FCI.com

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Northford, CT 06472-1610
203.484.7161
www.honeywell.com

9020-0616 | F | 11/17

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Honeywell | Addressable Devices

Velociti® Series 3 Detectors

Photoelectric Detectors

Description

The Gamewell-FCI, Velociti® Series 3 intelligent photoelectric detectors with integral communication provide point location for alarm communication and selective maintenance. Designed in a modern bright white color, the Velociti Series 3 is aesthetically pleasing for today's contemporary buildings.

The Velociti Series 3 smoke detectors are intelligent addressable detectors with point ID capability that enable each detector address to be set with rotary address switches providing exact device locations. The photoelectric detector continually monitors the detected temperature and reports it to the fire alarm control panel. The modern design and expanded color options support a variety of contemporary aesthetic demands. In addition, each detector is constructed for exceptional installation and maintenance efficiency.

The Gamewell-FCI, ASD-PL3 photoelectric detector's re-designed optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources in accordance with more stringent code standards. The sensitivity of Velociti series detectors can be programmed using the control panel software to suit the environment. The ASD-PL3R photoelectric detector is also remote test capable that may be used with a DNR (DNRW) duct smoke detector housing. The ASD-PTL3 multi-sensor detector offers either photoelectric detection or thermal detection through dual electronic thermistors at 135°F fixed temperature thermal sensing.

For legacy installations, service detectors are available in the classic ivory color that will operate in both Velociti and CLIP protocol for backwards compatibility. Service models are designated by the -IV part number after the detector model.

Note: Although the E3 Series® and S3 Series panels support both the Velociti® and CLIP™ protocols, the GWF-7075 panel does not support the CLIP protocol. To obtain a complete list of panels that are listed to Velociti Series 3 detectors, refer to the Compatibility Addendum for Gamewell-FCI Manuals, P/N:9000-0427-L8.

Photoelectric Detector

FEATURES & BENEFITS

- Complies with UL® Standard 268 7th Edition
- Designed with a new profile to offer modern and improved aesthetics
- Contains a built-in functional test switch activated by external magnet
- Supports a low standby current
- Provides rotary address switches (01-159)
- Supplies optional relay, isolator, or sounder bases (standard or low frequency)
- Includes dual LEDs for 360° visibility
- Offers expanded color options

Ordering Information

NOTE: "-IV" suffix indicates Ivory color model.
NOTE: "-BL" suffix indicates Black color model.
NOTE: "WH" suffix indicates Bright White color model.

ASD-PL3: Photoelectric smoke detector, bright white, Velociti

ASD-PL3R: Photoelectric smoke detector, remote test capable, for use with DNR(W) duct smoke detectors, bright white, Velociti

ASD-PTL3: Photoelectric smoke detector with thermal sensing, bright white, Velociti

ASD-PL3-IV : Photoelectric smoke detector, ivory, Velociti/CLIP

ASD-PL3R-IV: Photoelectric smoke detector, remote test capable, for use with DNR(W) duct smoke detectors, ivory, Velociti/CLIP

ASD-PTL3-IV : Photoelectric smoke detector with thermal sensing, ivory, Velociti/CLIP

Intelligent Bases

For details on intelligent bases, refer to Data Sheet P/N: 9021-60540.

Note: "IV" suffix indicates Flashscan and CLIP devices.

"WH" suffix indicates bright white

B501-WHITE: 4" Flangeless mounting base, bright white

B501-WHITE-BP: 4" Flangeless mounting base bulk pack, bright white

B501-IV: 4" Flangeless mounting base, ivory

B300-6: 6" Flanged mounting base, bright white

B300-6-IV: 6" Flanged mounting base, ivory

B300-6-BP: 6" Flanged mounting base bulk (Pack of 10)

B200SR-WH: Standard sounder base, bright white

B200SR-IV: Standard sounder base, ivory

B200S-WH: Intelligent addressable sounder base, bright white

B200S-IV: Intelligent addressable sounder base, ivory

B200SR-LF-WH: Standard low frequency sounder base, bright white

B200SR-LF-IV: Standard low frequency sounder base, ivory

B200S-LF-WH: Intelligent addressable low frequency sounder base, bright white

B200S-LF-IV: Intelligent addressable low frequency sounder base, ivory

B224RB-WH: Relay base, bright white

B224RB-IV: Relay base, ivory

B224BI-WH: Isolator base, bright white

B224BI-IV: Isolator base, ivory

DNR: Intelligent duct detector housing, non-relay

DNRW: Intelligent duct detector housing, non-relay, watertight

Ordering Information

Accessories

SMB600: Surface Mounting Kit (flanged)

TR300: Accessory Flange Ring for B300 6" Base, bright white

TR300-IV: Accessory Flange Ring for B300 6" Base, ivory

RA100Z: Remote LED annunciator, 3-32 VDC

The annunciator mounts to a U.S. single-gang electrical box. For use with B501 and B300-6.

CK300: Bright White detector kit (Pack of 10)

CK300-IR: White, detector color kit for use with MCS-COF Series Detectors. (Pack of 10)

CK300-IV: Ivory, detector color kit. (Pack of 10)

CK300-IR-IV: Ivory, detector color kit for use with MCSCOF Series detectors. (Pack of 10)

CK300-BL: Black detector kit. (Pack of 10)

CK300-IR-Bl: Black, detector color kit for use with MCSCOF Series detectors. (Pack of 10)

M02-04-01: Detector test magnet.

M02-09-00: Test magnet with telescoping handle.

XR2B: Detector removal tool. Allows the installation and/or removal of the detector heads from the bases in high ceiling applications.

XP-4: Extension pole for XR2B. Shipped with three, 5-foot (1.524,m) sections.

Velociti® Series 3 Detectors Technical Specifications

SYSTEMS

Photoelectric Intelligent Detector:

Physical Specifications

Height: 2.0 inches (51 mm) installed in B300-6 base

Diameter:

6.1 inches (15.49 cm) installed in B300-6 base

4 inches (10.16 cm) installed in B501 base

Shipping Weight: 3.4 oz (96.4 g)

Operating Temperature Range:

Photo: 32° F to 122° F (0° C to 50° C)

Photo in Duct Applications: -4° F to 158° F (-20° C to 70° C)

Photo with Thermal: 32° F to 100° F (0° C to 38° C)

Operating Humidity Range: 10% to 93% non-condensing

Rate-of-Rise Detection: Responds to greater than 15°F/minute or 135°F (8.3° C/minute or 57°C

Air Velocity Range: 0 to 4,000 ft/min (0 to 1219.2 m/min)

Electrical Specifications

Voltage Range: 15 to 32 VDC

Standby Current (@ 24 VDC): 200 UA (one communication every 5 seconds with green LED enabled)

Max Alarm Current (max.): 2 mA @ 24 VDC (one communication every 5 seconds with red LED enabled)

Max Current (max.): 4.5 mA @ 24 VDC (one communication every 5 seconds with amber LED enabled)

Isolator Load Rating: 0.0063

STANDARDS

The Velociti® Series 3 Photoelectric Detectors are designed to comply with the following standard:

UL Standard: UL 268

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. 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: S2332

FM: 3023594

MEA FDNY: COA-219-02-E Vol. VI

CSFM: 7272-1703:0501

ISO 9001 Certification

For a complete listing of all compliance approvals and certifications, please visit: http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx

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

Learn more about Gamewell-FCI's Velociti® Series 3 Detectors and other products available by visiting www.Gamewell-FCI.com

Honeywell Gamewell-FCI

12 Clintonville Road

Northford, CT 06472-1610

203.484.7161

www.honeywell.com

9020-0617 | K | 04/2018

Honeywell

Addressable Devices

Velociti® Series 3 Detectors

Thermal Detectors

Description

The Gamewell-FCI, Velociti® Series 3 intelligent thermal detectors with integral communication provide point location for alarm communication and selective maintenance. Designed in a modern bright white color, the Velociti Series 3 is aesthetically pleasing for today's contemporary buildings.

The Velociti Series 3 heat detectors are intelligent addressable detectors with point ID capability that enable each detector address to be set with rotary address switches providing exact device locations. The thermal detector continually monitors the detected temperature and reports it to the fire alarm control panel. The modern design and expanded color options support a variety of contemporary aesthetic demands. In addition, each detector is constructed for exceptional installation and maintenance efficiency. Velociti Series 3 thermal detectors provide cost-effective, intelligent property protection using the following single thermistor:

- ATD-L3 offers 135°F fixed thermal detection.
- ATD-L3R offers 135°F fixed and rate-of-rise thermal detection.
- ATD-L3H provides fixed high-temperature detection at 190°F .

For legacy installations, service detectors are available in the classic ivory color that will operate in both Velociti and CLIP protocol for backwards compatibility. Service models are designated by the -IV part number that appears after the detector model.

Note: The E3 Series® and S3 Series panels support both the Velociti® and CLIP™ protocols, and the GWF-7075 panel supports only the Velociti® protocol. To obtain a complete list of panels that are listed to Velociti Series 3 detectors, refer to the Compatibility Addendum for Gamewell-FCI Manuals, P/N:9000-0427-L8.

Thermal Detector

FEATURES & BENEFITS

- Complies with UL® 268 7th Edition
- Designed with a new profile to offer modern and improved aesthetics
- Contains a built-in functional test switch activated by an external magnet
- Supports a low standby current
- Provides rotary address switches (01-159)
- Supplies optional relay, isolator, or sounder bases (standard or low frequency)
- Includes dual LEDs used for 360° visibility
- Offers expanded color options

Ordering Information

NOTE: "-IV" suffix indicates Ivory color model.

NOTE: "-BL" suffix indicates Black color model.

NOTE: "WH" suffix indicates Bright White color model.

ATD-L3: Thermal heat detector, 135°F fixed, bright white, Velociti

ATD-L3-IV: Thermal heat detector, 135°F fixed, ivory, Velociti/CLIP

ATD-L3R: Thermal heat detector, 135°F rate of rise, bright white, Velociti

ATD-L3R-IV: Thermal heat detector, 135°F rate of rise, ivory, Velociti/CLIP

ATD-L3H: Thermal heat detector, 190°F high temp, bright white, Velociti

ATD-L3H-IV: Thermal heat detector, 190°F high temp, ivory, Velociti/CLIP

Intelligent Bases

For details on intelligent bases, refer to Data Sheet P/N: 9021-60540.

B501-White: 4" Flangeless mounting base, bright white

B501-White-BP: 4" Flangeless mounting base bulk pack, bright white

B501-IV: 4" Flangeless mounting base, ivory

B501-BL

4" Flangeless mounting base,

B300-6: 6" Flanged mounting base, bright white

B300-6-IV: 6" Flanged mounting base, ivory

B300-6-BP: 6" Flanged mounting base bulk pack

B200SR-WH: Standard sounder base, bright white

B200SR-IV: Standard sounder base, ivory

B200S-WH: Intelligent addressable sounder base, bright white

B200S-IV: Intelligent addressable sounder base, ivory

B200SR-LF-WH: Standard low frequency sounder base, bright white

B200SR-LF-IV: Standard low frequency sounder base, ivory

B200S-LF-WH: Intelligent addressable low frequency sounder base, bright white

B200S-LF-IV: Intelligent addressable low frequency sounder base, ivory

B224RB-WH: Relay base, bright white

B224RB-IV: Relay base, ivory

B224BI-WH: Isolator base, bright white

B224BI-IV: Isolator base, ivory

Ordering Information

Accessories

SMB600: Surface Mounting Kit (flanged)

TR300: Accessory Flange Ring for B300 6" Base, bright white

TR300-IV: Accessory Flange Ring for B300 6" Base, ivory

RA100Z: Remote LED annunciator, 3-32 VDC

The annunciator mounts to a U.S. single-gang electrical box. For use with B501 and B300-6.

CK300: Bright White detector kit (Pack of 10)

CK300-IR: White, detector color kit for use with MCS-COF Series Detectors. (Pack of 10)

CK300-IV: Ivory, detector color kit. (Pack of 10)

CK300-IR-IV: Ivory, detector color kit for use with MCS-COF Series detectors. (Pack of 10)

CK300-BL: Black detector kit (Pack of 10)

CK300-IR-Bl: Black, detector color kit for use with MCS-COF Series detectors. (Pack of 10)

M02-04-01: Detector test magnet.

M02-09-00: Test magnet with telescoping handle.

XR2B: Detector removal tool. Allows the installation and/or removal of the detector heads from the bases in high ceiling applications.

XP-4: Extension pole for XR2B. Shipped with three, 5-foot (1.524,m) sections.

Velociti® Series 3 Detectors Technical Specifications

SYSTEMS

Thermal Intelligent Detector

Physical Specifications

Height: 2.0 inches (51 mm) installed in B300-6 base

Diameter:

6.1 inches (15.6 cm) installed in B300-6 base

4 inches (10.2 cm) installed in B501 base

Shipping Weight: 3.4 oz (95 g)

Operating Temperature Range:

Thermal 135° F fixed: -4° F to 100° F (-20° C to 38° C)

Thermal 135° F rate-of-rise: -4° F to 100° F (-20° C to 38° C)

Thermal 190° F rate-of-rise: -4° F to 135° F (-20° C to 57° C)

Operating Humidity Range: 10% to 93% non-condensing

Rate-of-Rise Detection: : Responds to greater than 15°F/minute or 135°F (8.3° C/minute or 57°C

Electrical Specifications

Voltage Range: : 15 to 32 VDC

Standby Current (@ 24 VDC): 200 uA (one communication every 5 seconds with green LED enabled)

Max Alarm Current (max.): : 2 mA @ 24 VDC (one communication every 5 seconds with red LED enabled)

Max Current (max.): : 4.5 mA @ 24 VDC (one communication every 5 seconds with amber LED enabled)

Isolator Load Rating: : 0.0063

STANDARDS

The Velociti® Series 3 Thermal Detectors are designed to comply with the following standard:

UL Standard: UL 268

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. 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: S2332

FM: 3023594

MEA-FDNY: 219-02-E Vol. VI

CSFM: 7270-1703-0502

ISO 9001 Certification

For a complete listing of all compliance approvals and certifications, please visit: http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx

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

Learn more about Gamewell-FCI's Velociti® Series 3 Detectors and other products available by visiting www.Gamewell-FCI.com

Honeywell Gamewell-FCI
12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.honeywell.com

9020-0620 | G | 04/2018

Honeywell

MCS-COP3

Addressable Multi-Criteria Photo/CO Detectors

MCS-COP3 is an intelligent, addressable smoke and carbon monoxide (CO) detector with integral communication to provide point location for alarm communication and selective maintenance.

MCS-COP3 installed in B200S-WH sounder base

This detector has point ID capability that enables each detector address to be set with rotary address switches providing exact device locations. The modern design and expanded color options support contemporary aesthetic demands. In addition, each detector is constructed for exceptional installation and maintenance efficiency.

MCS-COP3 is an intelligent, multi-criteria detector that incorporates photoelectric and carbon monoxide (CO) detection principles. MCS-COP3 offers a cost-effective solution meeting both the UL 268 7th edition standard for smoke detection and UL 2075 standard for system-connected life safety carbon monoxide detection. The dual function of this single device makes it ideal for installations such as hotels, schools and high-rise residential applications that require both smoke and CO detection.

Released through the incomplete burning of various fuels, CO is a colorless, odorless and deadly gas that is virtually impossible to detect with the human senses. Because the potential exists for dangerous levels of CO to accumulate in almost any building, legislation mandating the use of CO detection in commercial spaces continues to grow.

MCS-COP3 is recommended for use in conjunction with the B200S series intelligent sounder bases. These bases can generate either a Temp 3 pattern for fire or a Temp 4 pattern for CO alarm indication. The B200S series bases recognize the System Sensor® synchronization protocol. This enables it to be used as a component of the general evacuation signal — along with other System Sensor horns, horn strobes, and chimes — when connected to a power supply or Fire Alarm Control Panel (FACP) output capable of generating the System Sensor synchronization pulses.

FEATURES AND BENEFITS

- Combination smoke and CO detector
- Automatic drift compensation of smoke sensor and CO cell
- Uses only one address on the SLC
- RealTest® CO testing capability
- UL 268 7th edition and UL 2075 listed
- Separate audible signal for fire or CO alarm when used with a B200S series base
- 10-year CO cell with end-of-life warning and fault
- New modern profile
- Expanded color options with black and ivory color kits

Honeywell

Gamewell FCI FIRE CONTROL INSTRUMENTS

MCS-COP3 TECHNICAL SPECIFICATIONS

PHYSICAL

Height: 2.7 in. (69 mm) installed in B200S series sounder base

Diameter: 6.875 in. (175 mm) installed in B200S series sounder base

WEIGHT: 3.4 oz. (95 g)

Color: White

ENVIRONMENTAL

Operating Humidity Range: 15% to 90% Relative Humidity, Non-condensing

Operating Temperature Range: 32°F to 122°F (0°C to 50°C)

Air Velocity: 0 to 4000 ft./min. (0 to 1219.2 m/min.)

ELECTRICAL

Operating Voltage Range: 15 to 32 VDC

Operating Current @ 24 VDC: 200 uA (one communication every 5 seconds with green LED blink on communication)

Maximum Alarm Current: 2 mA @ 24 VDC (one communication every 5 seconds with red LED solid on)

Maximum Current: 4.5 mA @ 24 VDC (one communication every 5 seconds with amber LED solid on)

Isolator Load Rating: 0.0063

SYSTEM COMPATIBILITY

Communication Protocol: Velociti®

E3 Series: Firmware Version 4.10 or higher.
S3 Series: Firmware Version 1.21 or higher.
NGA: Firmware Version 4.01 or higher.
CAMWorks®: Version 3.53.003 or higher.
FocalPoint®: Version 4.52 or higher.

CO MONITORING

UL Standard Reference: Alarm Thresholds

Parts Per Million	Detector Response Time
70 ± 5ppm	60 – 240 min.
150 ± 5ppm	10 – 50 min.
400 ± 10ppm	4 – 15 min.

Per UL standard 2075, MCS-COP3 has been tested to the sensitivity limits defined in UL 2034.

ORDERING INFORMATION

Photo/CO Detectors

MCS-COP3: Intelligent multi-criteria photo/CO, white, UL listed

Bases

B501-WHITE: 4" Mounting base, white, UL-listed

B501-WHITE-BP: 4" Mounting base, white, UL-listed, bulk-pack 10

B501-BL: 4" Mounting base, black, UL-listed

B501-IV: 4" Mounting base, ivory, UL-listed

B300-6: 6" Flanged mounting base, UL-listed, white

B300-6-BP: 6" Flanged mounting base, UL-listed, white, bulk-pack 10

B300-6-IV: 6" Flanged mounting base, UL-listed, ivory

B200S-WH: Intelligent sounder base, white, UL-listed

B200S-IV: Intelligent sounder base, ivory, UL-listed

B200S-LF-WH: Intelligent sounder base, low-frequency, white, UL-listed

B200S-LF-IV: Intelligent sounder base, low-frequency, ivory, UL-listed

B224BI-WH: Intelligent isolator base, white, UL-listed

B224BI-IV: Intelligent isolator base, ivory, UL-listed

B224RB-WH: Intelligent relay base, white, UL-listed

B224RB-IV: Intelligent relay base, ivory, UL-listed

Accessories

SMB600: Surface Mounting Kit (flanged), ivory

TR300: Trim ring, white. (**TR300-IV** is ivory.)

CK300-CO: CO Color Kit (includes cover and trim ring), white. (**CK300-CO-IV** is ivory; **CK300-CO-BL** is black.)

RA100Z: Remote LED annunciator, UL-listed

M02-04-00: Detector test magnet

M02-09-00: Telescoping test magnet

AGENCY LISTINGS AND APPROVALS

UL Listed: S1195

CSFM: 7275-1703:0510

Country of origin: Mexico

Honeywell Gamewell-FCI
12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.gamewell-fci.com

9021-62025 | B | 11/20

Addressable Devices

Velociti® Series B200S-LF

Addressable 520 Hz Low Frequency Sounder Base

General

The Gamewell-FCI, B200S-LF sounder base sets a new standard for performance, installation and aesthetics. The B200S-LF low frequency sounder base is designed to comply with the NFPA 72 sleeping space requirement to produce a fundamental frequency of 520 Hz +/- 10% with a square wave or its equivalent. Studies show that a lower frequency, centered around 520 Hz, is the ideal frequency to awaken sleeping occupants, even those occupants with mild to severe hearing loss. The B200S-LF supports only the Velociti® protocol. In addition, the B200S-LF offers maximum flexibility in installation, configuration and operation to comply or exceed the UL® Standards 268 and 464 requirements.

The sounder base "listens in" to the communication between the sensor head and the fire alarm control panel to use the same address as the detector, but uses a unique device type on the loop. The FACP can then use that same address to command an individual sounder or a group of sounders to activate. You can set the command from the panel, so that it is set to the specific event, allowing the selection of volume, tone, group or custom tone patterns.

B200S-LF

Installation

The sounder base offers the following installation features:

- Pre-wired mounting plate-fits various junction box sizes.
- The housing locks to a mounting plate with two retaining screws to prevent tamper resistance.

Ordering Information

B200S-LF-WH: Low Frequency Intelligent Programmable Sounder Base, bright white

B200S-LF-IV: Ivory, Low Frequency Intelligent Programmable Sounder Base, ivory

Note 1: The B200S-LF-WH and B200S-LF-IV produce a fundamental frequency of 520 Hz +/- 10% with a square wave or its equivalent. The bases are designed to comply with the NFPA 72 sleeping space requirement.

Note 2: The B200S-LF-WH and B200S-LF-IV sounder bases are compatible with the E3 Series, S3 Series or GWF-7075 fire alarm control panels.

FEATURES & BENEFITS

- Complies with UL® Standard 464 for 520 Hz. low frequency
- Complies with UL Standard 268
- Provides 520 Hz +/- 10% square wave tone
- Produces multiple event-driven tone outputs
- Offers a mechanical locking feature that prevents the removal of an attached sensor head
- Built-in supervision (no EOL relays required)
- Supports Continuous, ANSI Temporal 3, ANSI Temporal 4, and March Time tones
- Offers a programming option to control and activate the sounder base independently
- Broadcasts over two volume levels(75 or 85dBA)
- Includes a pre-wire mounting plate that fits various junction box sizes
- Programs the addressability for maximum configuration flexibility
- When the B200S-LF is connected to the NAC circuit, it can be synchronized with other System Sensor® notification devices
- Uses a mechanical locking feature that prevents the removal of the attached sensor head
- Employs coded patterns that may be optionally synchronized over the SLC and promptly changed

Velociti® Series B200S-LF Technical Specifications

SYSTEMS

Physical Specifications:

Base Diameter: 6.875 1/2 (17.46 cm)

Base Height: 2.0½ (5.08 cm) less sensor

Shipping Weight: 0.50 lb. (227 gm)

Temperatures:

Operating Temperature Range: For the applicable sensor Operating Temperature Range, refer to the Base/Sensor Cross Reference Chart at www.systemsensor.com

Operating Humidity Range: 10% to 93% relative humidity (non-condensing)

Electrical Specifications:

External Supply Voltage: 16 to 33 VDC (VFWR)

External Standby Current: 500 uA maximum

Alarm Current:

High Volume Setting: 70 mA max. @ 33.0 VDC
90 mA max. @ 24.0 VDC
140 mA max. @ 16.0 VDC

Low Volume Setting: 15 mA max. @ 33.0 VDC
20 mA max. @ 24.0 VDC
25 mA max. @ 16.0 VDC

SLC Operating Voltage: 15 to 32 VDC

SLC Standby Current: 300 uA maximum (base only)

Sound Output:

High Volume: Greater than 85 dBA minimum measured in a UL reverberant room at 10 ft. 24 Volts (in continuous tone).

Low Volume: Greater than 75 dBA minimum measured in a UL reverberant room at 10 ft. 24 Volts (in continuous tone)

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.

STANDARDS

The Velociti® Series, B200S-LF is designed to comply with the following standards:

UL Standards: UL 268
UL 464

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. 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: S1911

CSFM: 7300-1653:0238

ISO 9001 Certification

For a complete listing of all compliance approvals and certifications, please visit: http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx

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

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THERMOTECH
AUTOMATIC HEAT DETECTORS

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OGDEN, UTAH 84414
(801) 782-2233
FAX: (801) 782-1746
www.thermotechheatdetectors.com

FREEZER HEAT DETECTORS

Four Basic Models

MODEL	DESCRIPTION	REFER TO:
302-135 302-194	135°F - Interior Vertical Mounting FM & UL 194°F - Interior Vertical Mounting FM & UL	Fig. 1
302-ET-135 302-ET-194	135°F - All Weather Vertical Mounting FM & UL 194°F - All Weather Vertical Mounting FM & UL	Fig. 2
302-AW-135 302-AW-194	135°F - All Weather Vertical Mounting FM & UL 194°F - All Weather Vertical Mounting FM & UL	Fig. 3
302-EPM-135 302-EPM-194	135°F - Explosion Proof Mounting UL 194°F - Explosion Proof Mounting UL	Fig. 4
AP-P	Decorative white plastic adapter plate for mounting 302, 302ET and 302AW to any 3″ outlet box or 4″ octagon outlet box.	Fig. 5

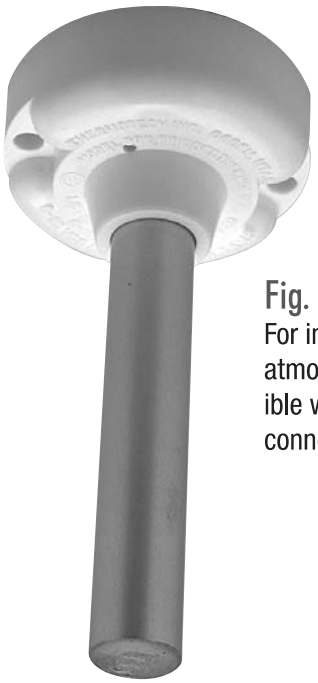

Fig. 1 MODEL 302
For interior mounting in any atmosphere that is compatible with terminal screw type connections.

Fig. 2 MODEL 302-ET
Hermetically sealed for moisture proof or dust proof installations. Requires no special back box. Has plastic hexagonal grip bushing with 1/2” conduit threads for attachment to threaded hub cover, or any outlet box. Must be *hand tightened only*. For indoor and outdoor use. Protect from direct sunlight and adverse weather conditions.

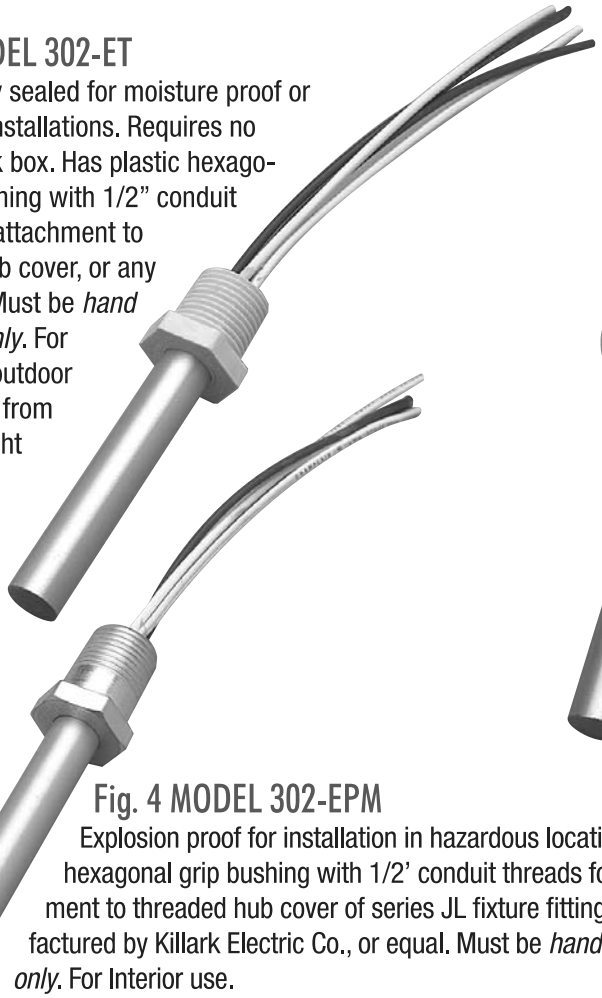

Fig. 3 MODEL 302-AW
Hermetically sealed for moisture proof or dust proof installations. Requires no special back box. For indoor and outdoor use. Protect from direct sunlight and adverse weather conditions.

Fig. 4 MODEL 302-EPM
Explosion proof for installation in hazardous locations. Has hexagonal grip bushing with 1/2’ conduit threads for attachment to threaded hub cover of series JL fixture fitting as manufactured by Killark Electric Co., or equal. Must be *hand tightened only*. For Interior use.

Fig. 5 AP-P
Decorative white plastic adapter plate for mounting 302, 302-AW and 302-ET detectors only.

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www.thermotechheatdetectors.com

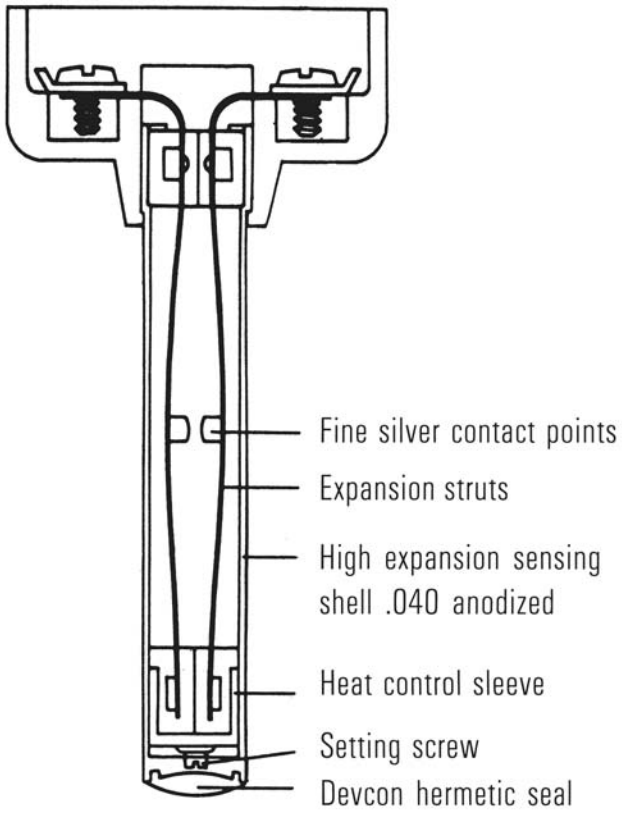
General

Each model is a normally open device designed especially for fire detection and alarm systems. These rate compensation type detectors are available in either 135° F. or 194° F. ratings. All four basic models are self restoring, hermetically sealed, shock and corrosion resistant, and are tamper proof. Refer to NFPA STANDARD 72, STANDARD FOR AUTOMATIC FIRE DETECTORS for application requirements, testing and maintenance.

Principal of Operation

All models operate on the principles of a rate compensation detector. The detector consists of a high expansion aluminum tube which encases two insulation struts with opposing open constant points (see cut-away view). The high expansion sensing shell and the expansion struts have a different coefficient of expansion. A slow rate of temperature rise allows the heat to penetrate the inner expansion struts. Therefore, the tubular shell and the struts expand slowly until the total device has been heated to its rated temperature level of 135° F./194°F. At this point, the silver contact points close which initiates the alarm. When subjected to a rapid rate temperature rise there is not as much time for heat to penetrate the inner strut. The rapid lengthening of the shell allows the struts to come together at a lower level which compensates for thermal lag inherent in conventional fixed temperature detectors. When the surrounding air temperatures goes below the rated temperature level, the shell contracts which forces contacts to open, thus automatically resetting the detector.

(actual size)



Dimensions (Model 302): Total overall length 4 1/8″.
Base Diameter: 2″.

Special Considerations

Temp. Rating °F.	Max Ceiling Temp. °F.
135	115
194	155

Detectors are not directionally effected, can be mounted horizontally or vertically. Detectors have a smooth ceiling UL rating of 50' x 50' (2500 sq. ft.) on 8 to 10 ft. ceilings. Detectors, hub covers, or outlet boxes must never be installed in direct sunlight. Refer to NFPA STANDARD 72 for spacing and other considerations. For further information refer to www.thermotechheatdetectors.com

Electrical Rating

Voltage	Current
6-125 VAC	5 amps
6-25 VAC	1 amp
125 VDC	0.5 amp

Approvals/Listings

Signaling
UL Listed — Underwriters' Laboratories

Factory Mutual System Approved — Factory Mutual

California State Fire Marshall. Listing No. 7270-0021:001

NEW YORK CITY DEPARTMENT OF BUILDINGS — MEA Acceptance # 193-03-E

5600 Series Mechanical Heat Detectors

System Sensor's 5600 series mechanical heat detectors offer a low-cost means for property protection against fire, and for non-life-safety installations where smoke detectors are inappropriate.

5601P

5621

Features

- Multiple configurations for installations:
  – Single- and dual-circuit models
  – Fixed temp and combination fixed- temp/rate-of-rise 135°F or 194°F ratings.
- Plain housing for residential installations (Model 5601P)
- Easy-to-use terminal screws
- A broad range of back box mounting options:
  – Single gang
  – 3.5″ and 4″ Octagonal
  – 4″ square with square to round plaster ring
- Reversible mounting bracket

Multiple configurations. The 5600 series offers a full-line of configurations to accommodate a broad range of applications. Both single- and dual-circuit models are available for low- and high-temperature ratings with either fixed temperature or combination fixed temperature/rate-of-rise (ROR) activation. The ROR element of the fixed/ROR models is restorable to accommodate field-testing.

Installation flexibility. To satisfy a variety of installation needs, the 5600 series easily mounts to single-gang and octagonal back boxes. And these models accommodate four-square back boxes, when used with a square to round plaster ring. The reversible mounting bracket permits both flush- and surface-mount back box installations.

Visual identification. The 5600 series provides clear markings on the exterior of the unit to ensure that the proper detector is being used. Alphanumeric characters identify the activation method, as well as the temperature rating, in Fahrenheit and Celsius degrees. Fixed temperature models are identified FX, while combination fixed/rate-of-rise units are marked FX/ROR. The 5600 series also provides a post-activation indicator in the form of a collector. When the detector is activated, the collector drops from the unit, making it easy to identify the unit in alarm.

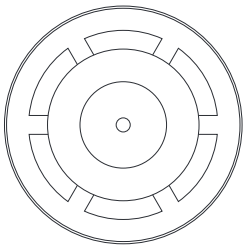
Agency Listings

UL LISTED S2101 · FM APPROVED 3016008 · ULC CS630 · 7270-1653:0167

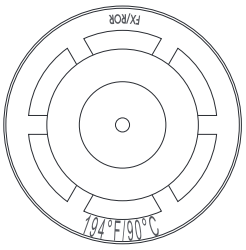
Specifications

Architectural/Engineering Specifications
Mechanical heat detector shall be a System Sensor 5600 series model number _____, listed to Underwriters Laboratories UL 521 for Heat Detectors for Fire Protective Signaling Systems. The detector shall be either a single-circuit or a dual-circuit type, normally open. The detector shall be rated for activation at either 135°F (57°C) or 194°F (90°C), and shall activate by means of a fixed temperature thermal sensor, or a combination fixed temperature/rate-of-rise thermal sensor. The rate-of-rise element shall be activated by a rapid rise in temperature, approximately 15°F (8.3°C) per minute. The detector shall include a reversible mounting bracket for mounting to 3½-inch and 4-inch octagonal, single gang, and 4-inch square back boxes with a square to round plaster ring. Wiring connections shall be made by means of SEMS screws that shall accommodate 14–22AWG wire. The detector shall contain alphanumeric markings on the exterior of the housing to identify its temperature rating and activation method. The rate-of-rise element of combination fixed temperature/rate-of-rise models shall be restorable, to allow for field-testing. The detectors shall include an external collector that shall drop upon activation to identify the unit in alarm.

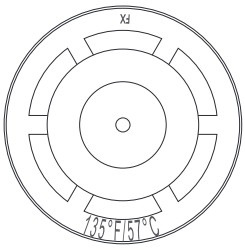
Physical/Operating Specifications	
Maximum Installation Temperature	5601P, 5603, 5621, and 5623: 100°F (38°C) 5602, 5604, 5622, and 5624: 150°F (65.6°C)
Operating Humidity Range	5 to 95% RH non-condensing
Dimensions with mounting bracket	Diameter: 4.57 inches (11.6cm) Height: 1.69 inches (4.3cm)
Alarm Temperature	5601P, 5603, 5621, and 5623: 135°F (57°C) 5602, 5604, 5622, and 5624: 194°F (90°C)
Weight	6 oz. (170 grams)
Rate-of-Rise Threshold	15°F (8.3°C) rise per minute (models 5601P, 5602, 5621, and 5622 only)
Mounting	3½-inch octagonal back box 4-inch octagonal back box Single gang back box 4-inch square back box with a square to round plaster ring
Electrical Specifications	
Operating Voltage / Contact Ratings	6–125VAC / 3A 6–28VDC / 1A 125VDC / 0.3A 250VDC / 0.1A
Input Terminals	14–22 AWG



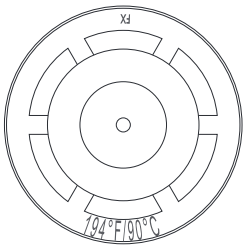
5601P



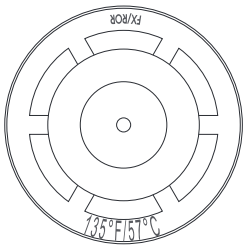
5602, 5622



5603, 5623



5604, 5624



5621

Ordering Information

Model	Circuit	Identification Method on Exterior	Temperature Rating	Activation	UL Protected Spacing – 10 Foot Ceiling*
5601P	Single	None	135°F (57°C)	Fixed Temperature / Rate-of-Rise	50 feet × 50 feet (15.24m × 15.2m)
5602	Single	Lettering	194°F (90°C)	Fixed Temperature / Rate-of-Rise	50 feet × 50 feet (15.24m × 15.2m)
5603	Single	Lettering	135°F (57°C)	Fixed Temperature	25 feet × 25 feet (7.62m × 7.62m)
5604	Single	Lettering	194°F (90°C)	Fixed Temperature	25 feet × 25 feet (7.62m × 7.62m)
5621	Dual	Lettering	135°F (57°C)	Fixed Temperature / Rate-of-Rise	50 feet × 50 feet (15.24m × 15.2m)
5622	Dual	Lettering	194°F (90°C)	Fixed Temperature / Rate-of-Rise	50 feet × 50 feet (15.24m × 15.2m)
5623	Dual	Lettering	135°F (57°C)	Fixed Temperature	25 feet × 25 feet (7.62m × 7.62m)
5624	Dual	Lettering	194°F (90°C)	Fixed Temperature	25 feet × 25 feet (7.62m × 7.62m)

*NOTE: Refer to NFPA72 guidelines for spacing reductions when ceiling heights exceed 10 feet.

SYSTEM SENSOR®

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

SPDS30001 • 7/13

OSI-RI-GW

Intelligent Single-ended Reflective Imaging Beam Smoke Detector

The OSI-RI-GW delivers rapid installation, trouble-free detection, and a minimalist design for challenging open-area applications.

The OSI-RI-GW single-ended beam smoke detector is easy to install and adjust. Only the head unit needs to be wired, and the "eyeball" can be aimed without adjusting the detector mounting.

The OSI-RI-GW intelligent addressable reflector-type linear optical beam smoke detector is uniquely suited for protecting large open areas with high ceilings where spot-type smoke detectors are difficult to install and maintain. Ideal applications are warehouses, malls, aircraft hangers, arenas and concert halls. The beam operates primarily on the principle of light obscuration using infrared. The OSI-RI-GW detector is a combined transmitter/receiver and is compatible with 7075 Series, S3 Series, and E3 Series® fire alarm control panels in Veloci ti® mode.

Fast and Easy Alignment
Aligning the imager to the reflector is extremely intuitive, fast, and accurate, thanks to the CMOS imager contained in a movable "eyeball" that can move vertically and horizontally. Four LED arrows help the user find the imager's perfect alignment with the reflector. Once the optimum alignment is found, indicated by all green arrows, the lens is locked with a slide lever. A paintable cover is then placed over the front to secure the lever in locked position.

Resistant to Building Movement, Sunlight, and Foreign Object Intrusion
The receiver imager automatically tracks the reflector in case of building movement or support structure movement. This allows the OSI-RI-GW to be highly resistant to movement, eliminating the number one cause of false alarms and/or faults with traditional beam detectors.

Optical filtering, high-speed image acquisition and intelligent software algorithms provide the system with highly improved resistance to false alarms from sunlight, reflected sunlight or any other very bright light sources. Advanced smoke imaging techniques allow the detector to avoid false alarms from partial and sudden blockage from foreign object intrusion.

Time-saving Automatic Sensitivity Setting
Unique in the market, the sensitivity of the detector is selected and set automatically at the optimum sensitivity based on the size of the reflector measured in the field of view.

Drift Compensation
The detector will adjust its detection thresholds in line with any long-term signal reduction of the beam caused by dust or other contamination of the optical surfaces.

Equipped with Built-in Imager Heater
The imager ships standard with an internal heating option to prevent condensation on the optical surface. (External power supply required.)

FEATURES AND BENEFITS

- Combined transmitter/receiver unit
- Wide 12° field of view
- Fast, easy, and intuitive beam alignment indicated by LED directional arrows
- 50° horizontal and 20° vertical beam adjustment
- Long range coverage of 16-328 ft (5-100m) is standard; no separate long-range kit required
- Automatic sensitivity threshold level setting
- Resistant to building movement; tolerates +/- 1° movement
- Resistant to strong light sources; does not alarm when saturated by sunlight
- Resistant to solid object intrusion
- Remote test station capable for electronic simulated smoke test from ground level
- Status LED indicators visible from the front and bottom
- Automatic drift compensation
- Paintable housing/cover
- Removable plug-in terminal blocks
- Built-in imager heater
- Optional reflector heater kit available

Honeywell

Gamewell FCI FIRE CONTROL INSTRUMENTS

OSI-RI-GW TECHNICAL SPECIFICATIONS

PHYSICAL

Dimensions (Detector): Height 6" (152.4 mm); Width 10" (254 mm); Depth 4.5" (114.3 mm)

Dimensions (Reflector): Height 9.06" (230 mm); Width 7.87" (200 mm)

Weight (Installed): 2.48 lbs (1.12 kg)

Weight (Shipping): 3.91 lbs (1.77 kg)

Wire Gauge for Terminals: 14 AWG (2.08 mm²)

ELECTRICAL

OSI-RI-GW

Operating Voltage Range:
Nominal: 24 VDC
Minimum: 15 VDC
Maximum: 32.0 VDC

Maximum Standby Current:
13 mA @ 32 VDC
14 mA @ 24 VDC
20 mA @ 15 VDC

Maximum Alarm Current (LED on):
22 mA @ 32 VDC
15 mA @ 24 VDC
22 mA @ 15 VDC

Maximum Devices per SLC Loop:
The number of OSID-R devices are limited due to SLC current draw restrictions. Current draws listed above must be considered in coordination with any other devices on a circuit. In general, this limits the number of OSID-R detectors to up to 4 detectors per loop on a dedicated circuit on **Gamewell-FCI** panels. Any non-beam devices, increased distances or higher gauge wiring on the circuit will decrease available current and total capacity of OSID-R detectors.
Available panel current:

- **7075 Series:** 165 ma supervisory current
- **7100 Series:** 90 ma supervisory current
- **E3 Series:** 100 ma supervisory current
- **S3 Series:** 100 ma supervisory current

BEAMHKR

Voltage Range: 15 to 32 V

Maximum Current: 450 mA Max at 32 V

Power Consumption:
7.7 W @ 24 V
15 W @ 32 V

RTS151KEY

Voltage Range: 10.2 to 32 VDC

Current Range: 9 mA Min to 11 mA Max

ENVIRONMENTAL

Operating Temperature: UL-Listed for use from 32°F to 100°F (0°C to 37.8°C).

Application Temperature Range: -4°F to 131°F (-20°C to +55°C)

Humidity Range: 0 to 95% relative humidity, non-condensing

OPERATIONAL

Protection Range: 16 ft to 328 ft (5 m to 100 m)

Adjustment Angle: 20 degrees vertical, 50 degrees horizontal

Sensitivity Levels: Level 1 25%, Level 2 30%, Level 3 40%, Level 4 50%

Test/Reset Features: Local alarm test switch, local alarm reset switch, Remote test and reset switch (compatible with RTS151 and RTS151KEY(-A) test stations), OSID-R test filter.

Smoke Detector Spacing: On smooth ceilings, 30-60 feet between projected beams and not more than one-half that spacing between a projected beam and a sidewall. Other spacing may be used depending on the ceiling height, airflow characteristics, and response requirements. See NFPA 72.

AGENCY LISTINGS

UL: S911

FM: PR449231

CSFM: 7260-1703:0506

PRODUCT LINE INFORMATION

OSI-RI-GW: Intelligent imaging beam smoke detector including reflector

OSP-002: Laser alignment tool

OSP-004: Test filter, 10 pack

RTS151: Remote test station

RTS151KEY: Test and reset station with key lock, flush mount

BEAMHKR: Heater kit for the reflector

6500-MMK: Multi-mount accessory for ceiling or wall mounting with additional mounting adjustment

Country of origin: Mexico

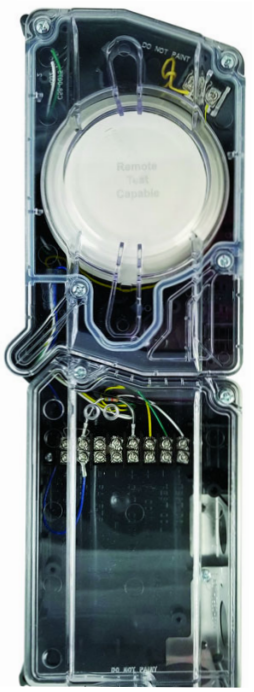
Honeywell Gamewell-FCI
12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.gamewell-fci.com

9021-61044 | D | 07/20

DNR AND DNRW

Intelligent Photoelectric Duct Smoke Detectors

The DNR and DNRW use photoelectric technology to detect smoke and combustion particles present in air moving through an HVAC air handling system.



The Gamewell-FCI DNR intelligent non-relay photoelectric duct smoke detector and DNRW watertight non-relay photoelectric duct smoke detector feature a pivoting housing that fits both square and rectangular footprints capable of mounting to a round or rectangular duct.

The DNRW duct smoke detector, with its NEMA-4 rating, is listed as a watertight, UV resistant enclosure providing protection against falling dirt, rain, and windblown dust, splashing and hose directed water, allowing operators to use the detector in the most extreme environments.

These units sense smoke in the most challenging conditions, operating in airflow speeds of 100 to 4,000 feet per minute (0.5 – 20.32 m/s), temperatures of -4°F – 158°F (-20°C – 70°C), and a humidity range of 0 – 95 percent (non-condensing.)

An improved cover design isolates the sensor head, which allows for ease of maintenance. A cover tamper feature indicates a trouble signal for a removed or improperly installed sensor cover. The housing provides a 3/4-inch conduit knockout and ample space to facilitate easy wiring and mounting of a relay module.

The Gamewell-FCI DNR duct smoke detectors can be customized to meet local codes and specifications without additional wiring and are compatible with all previous models, including remote test accessories.

ACCESSORIES

Gamewell-FCI provides system flexibility with a variety of accessories, including two remote test stations and different means of visible and audible system annunciation. As with our duct smoke detectors, all duct smoke detectors accessories are UL listed.

FEATURES AND BENEFITS

- Photoelectric, integrated low-flow technology
- Air velocity rating from 100 ft/min – 4,000 ft/min (0.5 m/s – 20.32 m/s)
- Versatile mounting options: square or rectangular configuration
- Broad ranges for operating temperature (-4°F – 158°F, -20°C – 70°C) and humidity (0% – 95% non-condensing)
- Patented sampling tube installs from front or back of the detector with no tools required
- Cover tamper signal
- Increased wiring space with a newly added 3/4” conduit knockout
- Available space within housing to accommodate mounting of a relay module
- Easily accessible code wheels on sensor head (sold separately)
- Clear cover for convenient visual inspection
- Remote testing capability
- Requires com line power only
- Accommodates an addressable relay module, sold separately, for applications requiring a Form-C relay

Honeywell

Gamewell FCI FIRE CONTROL INSTRUMENTS

DNR AND DNRW TECHNICAL SPECIFICATIONS

Size: (Rectangle) 14.38 in (37 cm) Length; 5 in (12.7 cm) Width, 2.5 in (6.6 cm) Depth

Size: (Square) 7.75 in (19.7 cm) Length; 9 in (22.9 cm) Width; 2.5 in (6.35 cm) Depth

Weight: 1.6 lb (0.73 kg)

Operating Temperature Range: -4°F – 158°F (-20°C – 70°C)

Storage Temperature Range: -22°F – 158°F (-30°C – 70°C)

Operating Humidity Range: 0% – 95% relative humidity (non-condensing)

Air Duct Velocity: 100 – 4,000 ft/min (0.5 – 20.32 m/s)

Accessory Current Loads at 24 VDC: RA100Z and RTS151(KEY)

- Standby: 0mA
- Alarm: 12mA max

AGENCY LISTINGS AND APPROVALS

Consult product manual for lists of compatible UL-Listed devices. 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:** S911
- **CSFM:** 3240-1653:0209
- **FM approved**

PRODUCT LINE INFO

DNR: Intelligent non-relay photoelectric low flow smoke detector housing. Requires photoelectric smoke detector (sold separately).

DNRW: Watertight intelligent non-relay photoelectric low flow duct smoke detector housing. Requires photoelectric smoke detector (sold separately). NEMA-4 rated.

ASD-PL3R-IV: Remote test capable addressable low-profile photoelectric smoke detector; ivory; supports CLIP and Velociti® protocols

ASD-PL3R: Remote test capable addressable low-profile photoelectric smoke detector; white; supports Velociti protocol only

ASD-PL3-IV: Addressable low-profile photoelectric smoke detector; ivory; supports CLIP and Velociti protocols

ASD-PL3: Addressable low-profile photoelectric smoke detector; white; supports Velociti protocol only

DCOIL: Remote test coil. Required for older DNR(W) duct detector housing

DUCTCOV: Retrofit DNR cover for manufactured prior to April 2014

DUCTCOVW: Retrofit DNRW cover for manufactured prior to April 2014

DST1: Metal sampling tube duct width up to 1 ft (0.3m)

DST1.5: Metal sampling tube duct widths up to 1 ft – 2 ft (0.3 – 0.6 m)

DST3: Metal sampling tube duct widths up to 2 ft – 4 ft (0.6 – 1.2 m)

DST5: Metal sampling tube duct widths up to 4 ft – 8 ft (1.2 – 2.4 m)

DST10: Metal sampling tube duct widths up to 8 ft – 12 ft (2.4 – 3.7 m)

DH400OE-1: Weatherproof enclosure

ETX: Metal exhaust tube duct, width 1 ft (0.3 m)

M02-04-00: Test magnet

P48-21-00: End cap for metal sampling tubes

RA100Z: Remote annunciator alarm LED

RTS151: Remote test station

RTS151KEY: Remote test station with key lock

IMPORTANT NOTES

- DNR(W) duct detector housings with a date code of 0013 or higher do not require a DCOIL or auxiliary 24 VDC for remote test applications when used with a remote test capable detector.
- DNR(W) duct detector housings with a date code of 0012 or earlier require a DCOIL and auxiliary 24 VDC power for remote test applications.

Country of origin: Mexico

Honeywell Gamewell-FCI
12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.gamewell-fci.com

9021-60475 | F | 11/19

Velociti® Series
MMI-10F

Description

The Gamewell-FCI Velociti® Series, multi-mod ten input monitor module (MMI-10F) provides ten (10), Style B (Class B) or five (5), Style D (Class A) supervised initiating device circuits (IDCs) suitable for a wide range of monitoring applications.

The Velociti Series use a communication protocol that substantially increases the speed of communication between the sensors and certain Gamewell-FCI analog addressable fire alarm controls. These devices operate in a grouped fashion. If one of the devices in the group has a status change, the panel's microprocessor stops the group poll and concentrates on the single device. The net effect is response speed up to five times greater than earlier designs.

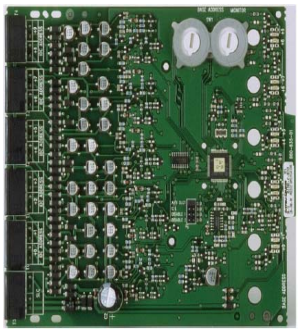
Each supervised circuit may be connected to any normally open contact device such as manual stations, tamper and supervisory switches, waterflow switches, heat detectors, 4-wire smoke sensors, etc.

The MMI-10F connects to the signaling line circuits (SLC) of the Gamewell-FCI analog addressable series fire alarm control panels. Each of the MMI-10F circuits occupies its own address on the system's SLC allowing each to be fully programmable in its control-by-event sequence of operation.

The address of the first circuit is set with a pair of rotary dials. Each remaining circuit is automatically assigned to its own subsequent address. The MMI-10F module includes an address disable jumper matrix that allows a maximum of two unused addresses to be turned off to free these addresses for other purposes. An additional jumper setting selects either Style B or Style D circuit configurations.

Each circuit has its own status LED that flashes to indicate proper polling and lights steadily when the output has been activated.

Multi-Mod Ten
Input Monitor Module



MMI-10F

Features

- Each MMI-10F monitor module provides ten (10), Style B (Class B) or five (5), Style D (Class A) individually addressable, individually programmable initiating device circuits.
- Ideal for applications requiring monitoring of normally open contact devices.
- Removable wiring terminal blocks allow ease of installation and servicing.
- Terminal blocks can accommodate 12 to 18 AWG wire.
- Flexible jumper configuration feature allowing one or two monitoring circuit addresses to be disabled.
- Individual LED indicators.*
- Ideal for retrofit applications.
- As many as sixty (60), initiating device circuits in one (1), 12" x 24" x 6.5" cabinet.
- Two (2), mounting cabinets available for two (2), (MBB-2 cabinet) to six (6), (MBB-6 cabinet) MMO-6RS.
- Bicolor LEDs flash green whenever the sensor is addressed, and light steady red on alarm.

*Note: *Only the red LED is operative in panels that do not operate in Velociti® mode.

SIGNALING
UL LISTED S1913 FM APPROVED 3023594 MEA Approved 219-02-E Vol. VI 7300-1703:0124

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS
GAMEWELL-FCI
12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118

Description (continued)

Two Multi-Mod units can be mounted in one MBB-2 cabinet. Additional mounting options include the MCH-6 chassis that can accommodate six (6), Multi-Mod modules. The MCH-6 chassis can be installed in a custom cabinet or can be mounted in the MBB-6 cabinet allowing up to six (6), Multi-Mod modules in one cabinet.

The MMI-10F is ideal for applications where centralized location of circuits is required. As many as sixty (60), initiating device circuits may be located in a cabinet that is only 12.6" H x 24" W x 6.5" D in dimension saving valuable wall space in mechanical rooms and electrical closets and reducing cost of installation.

Specifications

Operating Voltage:	15-32 VDC
Stand-by Current:	3.5 mA
Alarm Current:	60 mA (with all ten LEDs lit)
Maximum IDC Wire Resistance:	40 Ohms
Maximum IDC Voltage:	12 VDC
Maximum IDC Current:	1 mA
Temperature Range:	32° F to 120° F (0° to 49° C)
Humidity:	10 to 85% (non-condensing)
Dimensions:	6.8" H x 5.8" W x 1.25" D (17.3 x 14.7 x 3.2 cm)
MBB-2:	12.25" H x 9.25" W x 3.32" D (31.2 x 23.5 x 8.4 cm)
MBB-6:	12.63" H x 24" W x 6.5" D (32.1 x 60.1 x 16.5 cm)

Ordering Information

Part Number	Description
MMI-10F	Multi-mod 10 input module
MBB-2	Backbox, 2 unit
MBB-6	Backbox, 6 unit, requires MCH-6
MCH-6	6-Unit mounting chassis

Addressable Devices

Velociti® Series AMM-2IF

Addressable Dual Monitor Module

General

The Gamewell-FCI Velociti® Series, addressable dual monitor module, AMM-2IF, features two Style B, Class B initiating device circuits, each with an end-of-line resistor. This module provides addresses for any device or group of devices connected to each circuit. Any alarm initiating devices with normally open (N.O.) dry contacts, such as heat detectors, 4-wire projected beam smoke detectors, 4-wire smoke detectors, water flow switches, tamper switches, manual stations, etc. may be installed in these circuits.

The Velociti® Series use a communication protocol that substantially increases the speed of communication between the sensors and certain Gamewell-FCI analog addressable fire alarm controls. These devices operate in a grouped fashion. If one of the devices in the group has a status change, the panel's microprocessor stops the group poll and concentrates on the single device. The net effect is response speed up to five times greater than earlier designs.

The first circuit address is set via a rotary switch. The second circuit is automatically assigned the next higher address. The module has a single panel-controlled red LED.

The AMM-2IF module is designed for installation in the signaling line circuit of any Gamewell-FCI addressable control panel. The AMM-2IF is designed to mount in a 4" square junction box, 2 1/8" deep. The initiating device circuit of the AMM-2IF can support a maximum line resistance of up to 40 ohms allowing the use of linear heat detection devices.

AMM-2IF

Ordering Information

AMM-2IF: Monitor module, two circuit, Style B, Class B

FEATURES & BENEFITS

- Supports Class B, Style B, initiating device circuits
- Provides a visual rotary, decimal switch addressing (01-159)
- Offers 40 ohm line resistance for each initiating circuit
- Accommodates any normally open contact device
- Displays bi-color LEDs flash green whenever the module is addressed, and light steady red on alarm*
- Includes a compact size allows easy installation

*Note: Only the red LED is operative in panels that do not operate in Velociti® mode.

Velociti® Series AMM-2IF Technical Specifications

SYSTEMS

Supervisory Current: 0.0075 amp.

Alarm Current: .0057 amp. (LED lit)

Operating Temperature: 32° to 120° F (0° to 49° C)

Relative Humidity: 10 to 93% (non-condensing)

Dimensions: 4 1/2" H x 4" mW x 1 1/4" D
(11 H x 10.2 W x 3 D cm)

(Mounts in a 4" square by 2 1/8" deep box).

End-of-line Resistor: 47 K ohms

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.

STANDARDS

The Velociti® Series AMM-2IF is designed to comply with the following standards:

UL Standards: UL 864 9th Edition
UL 2572 for Mass Notification

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. 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: S1949
2572 for Mass Notification

FM: 3023594

MEA FDNY: 227-03-E Vol. IV

CSFM: 7300-1703:0107

ISO 9001 Certification

For a complete listing of all compliance approvals and certifications, please visit: http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx

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
Learn more about Gamewell-FCI's Velociti® Series AMM-2IF and other products available by visiting www.Gamewell-FCI.com

Honeywell Gamewell-FCI
12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.honeywell.com

9020-0629 | F | 11/17

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Addressable Devices

Velociti Series® AMM-4F

Addressable Monitor Module

General

The Gamewell-FCI Velociti® Series, addressable monitor module (AMM-4F) features a single Style D, Class A initiating device circuit. It may also be configured as a Style B, Class B initiating circuit with end-of-line resistor. This module provides an address for any device or group of devices connected to this circuit. Any alarm initiating devices with normally open (N.O.) dry contacts, such as heat detectors, linear heat detection devices, 4-wire projected beam smoke detectors, 4-wire smoke detectors, water flow switches, tamper switches, manual stations, etc. may be installed in this circuit.

The Velociti® Series use a communication protocol that substantially increases the speed of communication between the sensors and certain Gamewell-FCI analog addressable fire alarm controls. These devices operate in a grouped fashion. If one of the devices in the group has a status change, the panel's microprocessor stops the group poll and concentrates on the single device. The net effect is response speed up to five times greater than earlier designs.

The AMM-4F module is designed for installation in the signaling line circuit of any Gamewell-FCI analog addressable control panel. The initiating circuit of the AMM-4F has a maximum line resistance of 40 ohms, allowing the module to accommodate a number of initiating devices at a distance from the module. The AMM-4F is designed to mount in a 4" square junction box 2 1/8" deep.

The initiating device circuit of the AMM-4F can support a maximum line resistance of up to 40 ohms allowing the use of linear heat detection devices.

AMM-4F

Ordering Information

AMM-4F: Addressable monitor module, single circuit Style D, Class A or Style BC/A and B

FEATURES & BENEFITS

- Compact size allows easy installation
- Includes Class A, Style D, or Class B, Style B initiating circuit
- Offers a visual rotary, decimal switch addressing (01-159)
- Provides a 40 ohm line resistance for each initiating device circuit
- Accommodates any N/O dry contact device
- Bi-color LEDs flash green whenever the module is addressed, and light steady red on alarm*

*Note: Only the red LED is operative in panels that do not operate in Velociti® mode.

Velociti Series® AMM-4F Technical Specifications

SYSTEM

Supervisory Current: .000375 amps. (LED flashing)
Alarm Current: .005 amps. (LED lit)
Operating Temperature: 32° to 120° F (0° to 49° C)
Relative Humidity: 10 to 93% (non-condensing)
End-of-Line resistor: 47K ohms
Dimensions: 4 1/2" H x 4" W x 1 1/4" D
(11.4 x 10.2 x 3.2 cm)

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.

STANDARDS

The Velociti Series® AMM-4F is designed to comply with the following standard:
UL Standard: UL 864 9th Edition

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. 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: S1949
FM: 3023594
MEA FDNY: 277-03-E Vol. VI
CSFM: 7300-1703:0102
ISO 9001 Certification

For a complete listing of all compliance approvals and certifications, please visit: http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx

For more information
Learn more about Gamewell-FCI's Velociti Series® AMM-4F and other products available by visiting www.Gamewell-FCI.com

Honeywell Gamewell-FCI
12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.honeywell.com

9020-0624 | F | 11/17

Honeywell

Addressable Devices

Velociti Series® AOM-2RF

Addressable Output Relay Control Module

General

The Gamewell-FCI Velociti® Series, addressable output relay control module (AOM-2RF) allows a Gamewell-FCI analog addressable fire alarm control panel to switch discrete relay contacts by code command. The relay provides two isolated sets of Form-C contacts which transfer simultaneously. Circuit connections to the relay contacts are not supervised by the module.

The Velociti® Series use a communication protocol that substantially increases the speed of communication between the SLC devices and certain Gamewell-FCI analog addressable fire alarm control panels. These devices operate in a grouped fashion. If one of the devices in the group has a status change, the panel's microprocessor stops the group poll and concentrates on the single device. The net result produces a superior response speed up to five times greater than earlier designs.

The AOM-2RF Module is designed for installation in the signaling line circuit of any Gamewell-FCI analog addressable fire alarm control panel. The module contains a panel controlled LED. The AOM-2RF is designed to mount in a 4" (10.16 cm) square junction box 2 1/8" (5.53 cm) deep.

AOM-2RF

Ordering Information

AOM-2RF: Addressable output relay control module

Table 1 lists the relay contact ratings.

CURRENT RATING	MAXIMUM VOLTAGE	LOAD DESCRIPTION	APPLICATION
3A	30 VDC	Resistive	Non-Coded
2A	30 VDC	Resistive	Coded
0.9A	110 VDC	Resistive	Non-Coded
0.5A	125 VAC	Resistive	Non-Coded
0.5A	30 VDC	Inductive (L/R=5ms)	Coded
1A	30 VDC	Inductive (L/R=2ms)	Coded
0.5A	125 VAC	Inductive (PF=.35)	Non-Coded
0.7A	75 VAC	Inductive	Non-Coded

Table 1: Relay Contact Ratings

FEATURES & BENEFITS

- Listed under UL® Standard 864
- Offers two sets of Form "C" contacts
- Provides visual rotary, decimal switch addressing (01-159)
- Includes a bi-color LED that flashes green whenever the module is addressed, and lights steady red upon activation*
- Designed as a compact size to allow easy installation

Note 1: Only the red LED is operative in panels that do not operate in Velociti® mode

*Note 2: The bi-color LED functionality is not available on the GWF-7075 panel.

Velociti Series® AOM-2RF Technical Specifications

SYSTEMS

Supervisory Current: .000375 amps.
Alarm Current: .0065 amps.
Operating Temperature: 32° to 120° F (0° to 49° C)
Relative Humidity: 10 to 93% relative humidity (non-condensing)
Dimensions: 4 1/2" H x 4" W x 1 1/4"
(11.4 x 10.2 x 3.2 cm)

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.

STANDARDS

The Velociti Series® AOM-2RF is designed to comply with the following standard:
UL Standard: UL 864 9th Edition

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. 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: S1913
FM: 3023594
MEA FDNY: 219-02-E Vol. VI
CSFM: 7300-1703:0102
ISO 9001 Certification

For a complete listing of all compliance approvals and certifications, please visit: http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx

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For more information
Learn more about Gamewell-FCI's Velociti Series® AOM-2RF and other products available by visiting www.Gamewell-FCI.com

Honeywell Gamewell-FCI
12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.honeywell.com

9020-0625 | H | 08/18

Honeywell

Addressable Devices

Velociti® Series AOM-2SF

Addressable Output Relay Supervised Control Module

General

The Gamewell-FCI Velociti® Series addressable output supervised control module (AOM-2SF) allows a Gamewell-FCI analog addressable fire alarm control panel to switch an external power supply, such as a DC supply or audio amplifier (up to 80 V_{RMS}) to notification appliances. The AOM-2SF notification appliance circuit can be wired either Class A (Style Z) or Class B (Style Y). It also supervises the wiring to the connected loads and reports their status to the panel as NORMAL, OPEN or SHORT CIRCUIT. The module contains a panel controlled LED.

The Velociti® Series use a communication protocol that substantially increases the speed of communication between the SLC devices and certain Gamewell-FCI analog addressable fire alarm control panels. These devices operate in a grouped fashion. If one of the devices in the group has a status change, the panel's microprocessor stops the group poll and concentrates on the single device. The net result is a superior response speed up to five times greater than the earlier designs.

The AOM-2SF module is designed for installation in the signaling line circuit of any Gamewell-FCI analog addressable fire alarm control panel. The signaling line circuits of Gamewell-FCI analog addressable fire alarm control panels are designed to accommodate up to 159 modules per circuit. The AOM-2SF is designed to mount in a 4" (10.16 cm) square junction box 2 1/8" (5.5 cm) deep.

AOM-2SF

Table 1 lists the relay contact ratings.

Current Rating	Maximum Voltage	Load Description	Application
3A	30 VDC	Resistive	Non-Coded
2A	30 VDC	Resistive	Coded
0.9A	110 VDC	Resistive	Non-Coded
0.5A	125 VAC	Resistive	Non-Coded
0.5A	30 VDC	Inductive (L/R=5ms)	Coded
1A	30 VDC	Inductive (L/R=2ms)	Coded
0.5A	125 VAC	Inductive (PF=.35)	Non-Coded
0.7A	75 VAC	Inductive	Non-Coded

Table 1: Relay Contact Ratings

Ordering Information

AOM-2SF: Addressable output supervised control module

FEATURES & BENEFITS

- Listed under UL® Standard 864 and UL2572 for Mass Notification
- Designed as a compact size to allow easy installation
- Includes Class A, Style Z, or Class B, Style Y notification appliance circuit
- Accommodates audio amplifiers up to 80 V_{RMS}
- FM Listed as suitable for a releasing device service
- Includes a bi-color LED that flashes green whenever the module is addressed, and lights steady red upon activation*

*Note 1: Only the red LED is operative in panels that do not operate in Velociti® mode
*Note 2: The bi-color LED functionality is not available on the GWF-7075 panel.

Velociti® Series AOM-2SF Technical Specifications

SYSTEM

Supervisory Current: 0.00375 amps
Alarm Current: .0065 amps
Operating Temperature: 32° to 120° F (0° to 49° C)
Relative Humidity: 10 to 93% relative humidity (non-condensing)
Dimensions: 4 1/2" H x 4" W x 1 1/4" D
(11.4 H x 10.2 W x 3.2 D cm)

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.

STANDARDS

The Velociti Series AOM-2SF are designed to comply with the following standard:

UL Standards: UL 864 9th Edition

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. 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: S1949
FM: 3023594
MEA FDNY: 227-03-E Vol. IV
CSFM: 7300-1703:0102
ISO 9001 Certification

For a complete listing of all compliance approvals and certifications, please visit: http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx

For more information
Learn more about Gamewell-FCI's Velociti® Series AOM-2SF and other products available by visiting www.Gamewell-FCI.com

Honeywell Gamewell-FCI
12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.honeywell.com

9020-0627 | I | 08/18

Honeywell

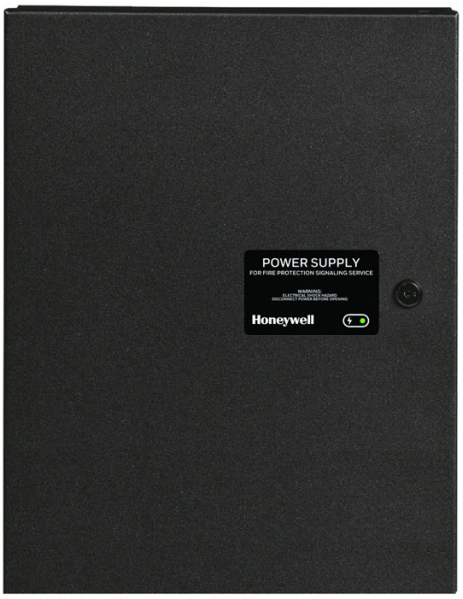
HPF-PS SERIES

6 Amp and 10 Amp, 24 Volt Power Supplies

The HPF-PS Series are independently configurable power supplies, allowing you to pair any input with any output, and feature LED diagnostics for troubleshooting.

The HPF-PS Series is a remote power supply line from Honeywell and is a direct replacement for the GFPS6/9. The HPF-PS6(B) is a 6 amp and the HPF-PS10(B) is a 10 amp, remote power supplies with battery charger that may be connected to any 12 or 24 volt fire alarm control panel (FACP) or used as a standalone power supply. The HPF-PS Series provides 24 VDC power for NACs (notification appliance circuits) configured as either Class B or Class A (requires the ZNAC-PS option card) with multiple sync protocol options. The HPF-PS Series also provides auxiliary power, constant or resettable, suited for detectors, annunciators, door holders, and other fire alarm system peripherals. The HPF-PS Series cabinet can hold two 7 AH or 18 AH batteries and can charge up to 33 AH batteries in a separate cabinet.

HPF-PS6/10



HPF-PS6/10B

FEATURES AND BENEFITS

- Up to five (6 amp model) or seven (10 amp model) independently-configurable, power-limited output circuits for:
  –Class B and/or Class A NACs
  –Class B and/or Class A resettable or non-resettable 24V auxiliary power
  –door holder power
- Converts from Class B to Class A wiring without losing any outputs using the ZNAC-PS converter card (sold separately)
- Optimal for powering four-wire smoke detectors, annunciators, and other system peripherals requiring regulated power
- Optional addressable control, monitor, and relay modules and power-supervision relay (EOLR-1)
- Configurable for ANSI® Temporal 3 or Temporal 4 coded output
- UL-Listed NAC synchronization using System Sensor®, Wheelock®, Gentex®, or AMSECO® appliances
- Synchronization can be triggered from FACP NAC/remote sync outputs, cascaded power supply, or a control module, single or multi, which may be housed within the power supply cabinet
- Ability to cascade up to four power supplies
- Two (6 amp model) or three (10 amp model) fully-isolated input/control circuits which can be programmed to any output
- Two Form C normally-closed trouble relays for AC Trouble and General Trouble
- 6 or 10 amp full load output, respectively, with 3 A maximum/circuit
- Individual NAC power and trouble LEDs for diagnostic efficiency
- Trouble history mode for diagnostic support
- Wide range end-of-line supervision value (normal: 2-27K ohms)
- Selectable earth fault detection (enable or disable)
- AC trouble report delay timer
- Completely configurable via onboard DIP switches, no extra software required
- Self-contained in compact, locking cabinet constructed of heavy gauge steel with a corrosion-resistant powder coat chip and scratch-resistant finish
- Cabinet designed with ten double knockouts and a removable door for ease of installation and wiring
- Includes integral battery charger capable of charging up to 33 AH batteries
- Cabinet can house two 7 AH or 18 AH batteries
- Battery charger may be disabled via DIP switch for applications requiring larger batteries and external battery charger
- Removable terminal blocks accommodate up to 12 AWG (3.1mm^2) wire
- Works with any UL 864 FACP which utilizes an industry-standard reverse-polarity notification circuit

Honeywell

Gamewell FCI FIRE CONTROL INSTRUMENTS

ORDERING INFORMATION

HPF-PS6: 6.0 A, 120 VAC remote charger power supply in a lockable, metal enclosure, red

HPF-PS6B: 6.0 A, 120 VAC remote charger power supply in a lockable, metal enclosure, black

HPF-PS10: 10.0 A, 120 VAC remote charger power supply in a lockable, metal enclosure, red

HPF-PS10B: 10.0 A, 120 VAC remote charger power supply in a lockable, metal enclosure, black

ZNAC-PS: Optional Class A converter card, sold separately

50152254-001: Hardware kit for Canadian applications

17070: Alternate Gamewell-FCI lock set

AOM-2SF: Addressable Control Module for one Class B or Class A zone of supervised, polarized Notification Appliances. Notification Appliance Circuit option requires external 24 VDC to power notification appliances.

AOM-2RF: Addressable relay module containing two isolated sets of Form-C contacts, which operate as a DPDT switch

AMM-4F: Addressable Monitor Module for one zone of normally open dry-contact initiating devices. Includes plastic cover plate and end-of-line resistor. Module may be configured for either a Class B or Class A

AMM-2IF: Dual Monitor Module. Same as AMM-4F except it provides two inputs for Class B wiring only

AMM-2RIF: Provides two monitored inputs and two Form-C relays. Functions in Class B wiring only

MMO-6SF: Six-circuit supervised control module

MMO-6RF: Six Form-C relay control module

EOLR-1: 12/24 VDC end-of-line relay for monitoring four-wire smoke detector power

BAT-1270-BP: Battery, 12 volt, 7.0 AH, 5-pack (two required)

BAT-12180-BP: Battery, 12 volt, 18AH, 2-pack

BAT-12330: Battery, 12 volt, 33AH

SEISKIT-MULTI-1: Seismic kit for the HPF-PS Series. Includes bracket and hardware for two 7AH or two 18AH batteries.

HPF-PS SERIES TECHNICAL SPECIFICATIONS

PRIMARY (AC) POWER

HPF-PS6(B): 120 VAC, 50/60 Hz, 5.0A maximum

HPF-PS10(B): 120VAC, 50/60 Hz, 6.2 A maximum

Wire Size: #12-14 AWG with 600 V insulation

COMMAND INPUT CIRCUIT

Trigger Input Voltage: 9 to 32 VDC

Trigger Current: 2.0 mA (16 - 32 V); Per Input: 1.0 mA (9 - 16 V)

RELAY CIRCUITS

Trouble Contact Rating: 4 A at 24 VDC

OUTPUT CIRCUITS

- 24 VDC filtered
- HPF-PS6(B): TB8-TB9 – 1A Regulated, 3A special applications; TB10-TB12 – 0.3A Regulated, 3A special applications
- HPF-PS10(B): TB8-TB11 – 1.5A Regulated, 3A special applications; TB12-TB14 – 0.3A Regulated, 3A special applications
- 6.0 A (HPF-PS6(B)) or 10.0 (HPF-PS10(B)) maximum total continuous current for all outputs

SECONDARY POWER (BATTERY) CHARGING CIRCUIT

- Supports lead-acid batteries only
- Float-charge voltage: 27.6 VDC
- Maximum current charge: 1.5 A
- Maximum battery capacity: 18 AH (inside cabinet)
- Maximum battery charging capacity: 33 AH (external cabinet)

PHYSICAL

Dimensions: 20.0"H x 14.5"W x 3.5"D (cm: 50.8H x 36.83W x 8.9D)

Weight: with two 7Ah batteries is 24 pounds (10.9 kg), with two 18 AH batteries is 39 pounds (17.7 kg)

STANDARDS AND CODES

The HPF-PS complies with the following standards:

NFPA 72: National Fire Alarm Code

UL 864: Standard for Control Units for Fire Alarm Systems (NAC expander mode)

UL 1481: Power Supplies for Fire Alarm Systems

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. 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: S24562

CSFM: 7315-1637:0505

FDNY COA:
2022-TMCOAP-002231-AMND

FM 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 Gamewell-FCI
12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.gamewell-fci.com

9021-61096 | D | 08-23

L-Series and L-Series with LED Indoor Selectable Horns, Strobes and Horn Strobes

System Sensor L-Series and L-Series with LED audible visible notification products are rich with features guaranteed to cut installation times and maximize profits with lower current draw and modern aesthetics.

Features

- LED technology provides lower current draw
- Digital Voltage Meter (DVM) diagnostic test points for Horn Strobes and Strobes
- Common aesthetics across the L-Series platform
- Standard and compact sizes
- Tamper-resistant construction
- Field-selectable candela settings on wall units: 15, 30, 75, 95, 110, 135, and 185
- Field-selectable candela settings on ceiling units: 15, 30, 75, 95, 115, 150, and 177
- Rotary switches for candela, tone and volume selections
- Mounting plate provides plug-in design for easier installation and shorting springs to check wiring continuity
- Electrically compatible with legacy SpectrAlert, SpectrAlert Advance and L-series devices
- Synchronization through use of UL approved power supplies that support System Sensor Sync protocol or System Sensor MDL3 Sync Module
- Horns, Strobes and Horn Strobes listed for wall or ceiling use

Agency Listings

SIGNALING c UL us LISTED	SIGNALING UL LISTED	ULC LISTED	FM APPROVED	
Horn Strobes and Strobes: S5512, S4011	Horns: S4011	Horns: S4011	3057072 FM23FPUS0195	7300-1653:0525 7135-1653:0503 7135-1653:0526

The System Sensor L-Series and L-Series with LED platform offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry with lower current draw and modern aesthetics. LED lighting technology offers significantly lower current draw compared to older Xenon bulbs across a full candela range. This improves design flexibility for notification appliance circuits (NACs) while also reducing power supply requirements allowing for simpler and lower cost installations.

Flexible design options meet virtually any application requirement: wall or ceiling mount, standard or compact sizes, red or white color choices, bezel kits for alternate markings and languages, and LED color lenses for distinctive visual signaling. In addition, installers can easily adapt devices using field selectable candela, tone and volume settings using rotary switches.

The L-Series and L-Series with LED line is developed to simplify installation. All devices feature plug-in designs with minimal intrusion into the back box, making installations fast and foolproof while virtually eliminating costly and time-consuming ground faults. The universal mounting plate includes an onboard shorting spring, so installers can test wiring continuity before the device is installed.

In addition, the System Sensor L-Series with LED notification appliances offer a new diagnostic test point feature that allows you to measure device voltage with a digital voltage meter (DVM) without removing the appliance from the wall or ceiling. The DVM test points are discreetly located on the face of the notification appliance which enable faster troubleshooting and end of line (EOL) voltage checks while greatly reducing the risk of misplacing or damaging appliances during troubleshooting.

L-Series and L-Series with LED Specifications

Physical/Electrical Specifications	
Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Strobe Flash Rate	1 flash per second
Nominal Voltage, LED Strobes and Horn Strobes	Regulated 24 VDC
Nominal Voltage, Horns	Regulated 12 VDC or regulated 24 DC/FWR
Operating Voltage Range, LED Strobes and Horn Strobes	16 to 33 V (24 V nominal)
Operating Voltage Range, Horns	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
Input Terminal Wire Gauge	12 to 18 AWG

UL/ULC Current Draw Data, Horn Tones, and Sound Output Data

UL/ULC Maxmimum Strobe Current Draw (mA)

	Candela Rating	16–33 Volts	
		Wall	Ceiling
Candela Range	15	18	18
	30	22	22
	75	70	70
	95	75	75
	110	85	—
	115	—	90
	135	105	—
	150	—	110
	177	—	115
	185	120	—

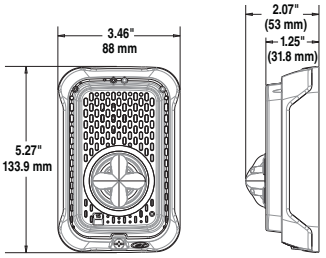
UL/ULC Maxmimum Horn Current Draw (mA RMS)

		8–17.5 Volts	16–33 Volts	
Sound Pattern	dB	DC	DC	FWR
Temporal	High	39	44	54
Temporal	Low	28	32	54
Non-Temporal	High	43	47	54
Non-Temporal	Low	29	32	54
3.1 KHz Temporal	High	39	41	54
3.1 KHz Temporal	Low	29	32	54
3.1 KHz Non-Temporal	High	42	43	54
3.1 KHz Non-Temporal	Low	28	29	54
Coded	High	43	47	54
3.1 KHz Coded	High	42	43	54

UL/ULC Maximum Horn Strobe Current Draw (mA) and Sound Output (dBA)

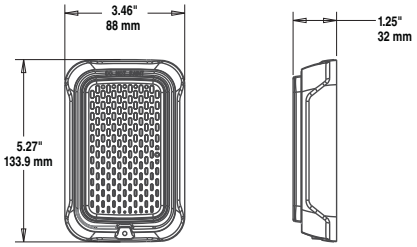
			Current Draw (mA RMS), Horn Strobe, Candela Range (15-185 cd)										Sound Output (dBA)
			16-33 Volts										16-33V
Switch Pos.	Sound Pattern	Volume Setting	15cd	30cd	75cd	95cd	110cd WALL	115cd CEILING	135cd WALL	150cd CEILING	177cd CEILING	185cd WALL	DC
1	Temporal 3	High	35	38	87	92	94	120	189	189	190	190	87
2	Temporal 3	Low	35	38	87	92	94	120	135	135	145	145	79
3	Non-Temporal	High	50	52	87	92	94	120	127	127	135	135	87
4	Non-Temporal	Low	35	38	87	92	94	120	125	125	130	130	79
5	3.1KHz Temporal 3	High	35	38	87	89	91	115	155	155	165	165	86
6	3.1KHz Temporal 3	Low	35	38	87	89	91	115	128	130	135	135	80
7	3.1KHz Non-Temporal	High	40	42	87	89	91	115	125	125	135	135	86
8	3.1KHz Non-Temporal	Low	35	38	87	89	91	115	120	120	130	130	80

L-Series with LED Dimensions: Wall-Mounted Equipment



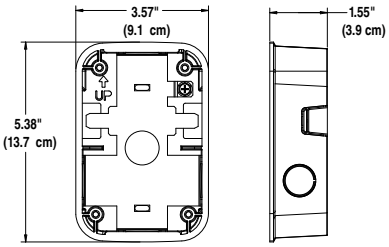
A0617-00

Compact Strobe, Horn Strobe for Wall



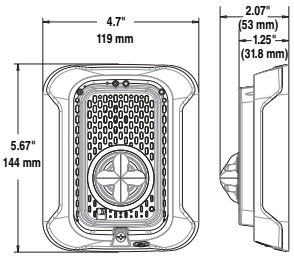
A0547-00

Compact Horn



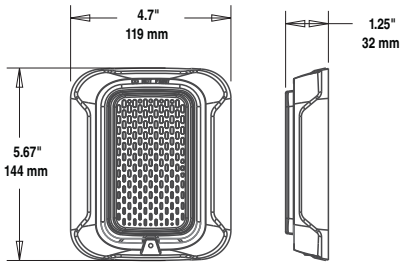
A0557-00

Compact Surface Mount Back Box for Walls (SBBGRL, SBBGWL)



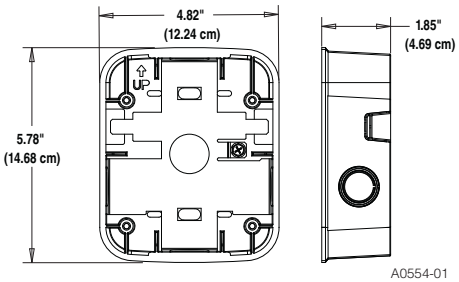
A0613-00

Strobes, Horn Strobes for Walls



A0549-00

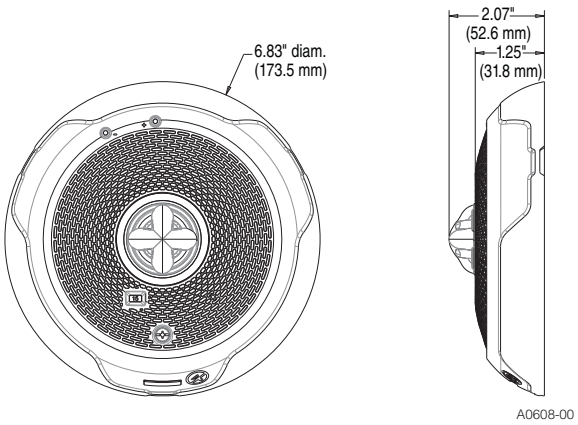
Horn



A0554-01

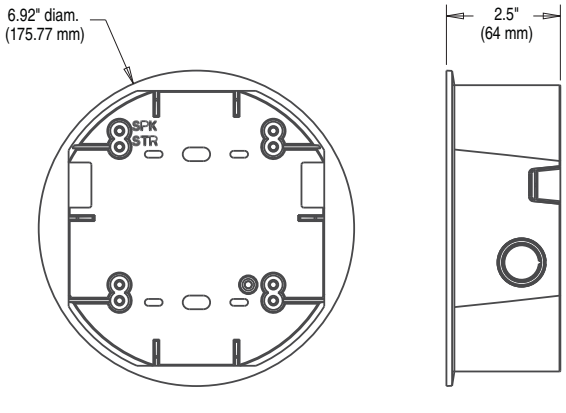
Surface Mount Back Box for Walls (SBBRL/SBBWL)

L-Series with LED Dimensions: Ceiling-Mounted Equipment



A0608-00

Strobes and Horn Strobes for Ceilings



A0546-00

Surface Mount Back Box for Ceilings (SBBCRL, SBCWL)

L-Series with LED: Ordering Information

Model	Description
L-Series with LED Horn Strobes	
P2RLED	2-Wire, Horn Strobe, Wall, Red
P2RLED-B	2-Wire, Horn Strobe, Wall, Red, Bilingual
P2WLED	2-Wire, Horn Strobe, Wall, White
P2WLED-B	2-Wire, Horn Strobe, Wall, White, Bilingual
P2GRLED	2-Wire, Compact Horn Strobe, Wall, Red
P2GRLED-B	2-Wire, Compact Horn Strobe, Wall, Red, Bilingual
P2GWLED	2-Wire, Compact Horn Strobe, Wall, White
P2GWLED-B	2-Wire, Compact Horn Strobe, Wall, White, Bilingual
P2RLED-P	2-Wire, Horn Strobe, Wall, Red, Plain
P2WLED-P	2-Wire, Horn Strobe, Wall, White, Plain
P2RLED-SP	2-Wire, Horn Strobe, Wall, Red, FUEGO
P2WLED-SP	2-Wire, Horn Strobe, Wall, White, FUEGO
PC2RLED	2-Wire, Horn Strobe, Ceiling, Red
PC2RLED-B	2-Wire, Horn Strobe, Ceiling, Red, Bilingual
PC2WLED	2-Wire, Horn Strobe, Ceiling, White
PC2WLED-B	2-Wire, Horn Strobe, Ceiling, White, Bilingual
L-Series with LED Strobes	
SRLED	Strobe, Wall, Red
SRLED-B	Strobe, Wall, Red, Bilingual
SWLED	Strobe, Wall, White
SWLED-B	Strobe, Wall, White, Bilingual
SGRLED	Strobe, Compact, Wall, Red
SGRLED-B	Strobe, Compact, Wall, Red, Bilingual
SGWLED	Strobe, Compact, Wall, White
SGWLED-B	Strobe, Compact, Wall, White, Bilingual
SRLED-P	Strobe, Wall, Red, Plain
SWLED-P	Strobe, Wall, White, Plain
SRLED-SP	Strobe, Wall, Red, FUEGO
SWLED-CLR-ALERT	Strobe, Wall, White, ALERT
SWLED-ALERT	Strobe, Wall, White, ALERT, Amber Lens
SCRLED	Strobe, Ceiling, Red
SCRLED-B	Strobe, Ceiling, Red, Bilingual
SCRLED-P	Strobe, Ceiling, White, Plain
SCWLED	Strobe, Ceiling, White
SCWLED-B	Strobe, Ceiling, White, Bilingual
SCWLED-P	Strobe, Ceiling, White, Plain
SCWLED-CLR-ALERT	Strobe, Ceiling, White, ALERT
L-Series Horns	
HRL*	Horn, Red
HRLA*	Horn, Red, Plain, ULC
HWL*	Horn, White
HWLA*	Horn, White, Plain, ULC
HGRL*	Compact Horn, Red
HGRLA*	Compact Horn, Red, Plain, ULC
HGWL*	Compact Horn, White
HGWLA*	Compact Horn, White, Plain, ULC

Model	Description
LED Lenses	
LENS-A3	Lens LED Amber Wall/Ceiling
LENS-B3	Lens LED Blue Wall/Ceiling
LENS-G3	Lens LED Green Wall/Ceiling
LENS-R3	Lens LED Red Wall/Ceiling
Accessories	
TR-2	Universal Wall Trim Ring Red
TR-2W	Universal Wall Trim Ring White
SBBRL	Wall Surface Mount Back Box, Red
SBBWL	Wall Surface Mount Back Box, White
SBBGRL	Compact Wall Surface Mount Back Box, Red
SBBGWL	Compact Wall Surface Mount Back Box, White
TRC-2	Universal Ceiling Trim Ring, Red
TRC-2W	Universal Ceiling Trim Ring, White
SBBCRL	Ceiling Surface Mount Back Box, Red
SBBCWL	Ceiling Surface Mount Back Box, White
Bezels†	
BZR	Wall Red Bezel Kit
BZW	Wall White Bezel Kit
BZGR	Compact Wall Red Bezel Kit
BZGW	Compact Wall White Bezel Kit
BZRC	Horn Strobe Ceiling Red Bezel Kit
BZWC	Horn Strobe Ceiling White Bezel Kit

Notes for L-Series With LED Horn Strobes and Strobes:

All -P models have a plain housing (no “FIRE” marking on cover).
All -SP models have “FUEGO” marking on cover.
All -ALERT models have “ALERT” marking on cover.
All -B models have “FIRE/FEU” marking on cover for use in Canadian applications.
Amber lenses are not for use in Canadian applications

Notes for L-Series Horns:

*Horn-only models are listed for wall or ceiling use.

Notes for Bezels:

†Each bezel pack ships in a package of 5.
Add one of the following extensions for print/language options: -F (FIRE), -AL (ALERT), -EV (EVAC), -AG (AGENT), -P (Plain), -FR (FEU), -PG (FOGO), -SP (FUEGO), -SPE (FUEGO/FIRE).

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

3333 Unity Drive, Mississauga, ON L5L 3S6 Canada
Phone: 800-SENSOR2 • Fax: 905-812-0771
www.systemsensor.ca

AVDS916-01 • 10/03/2023

Outdoor Selectable-Output Horns, Strobes, and Horn Strobes for Wall Applications

SPECTRAlert ADVANCE from System Sensor

SpectrAlert® Advance outdoor audible visible products are rich with features that cut installation times and maximize profits.

Features

- Weatherproof per NEMA 4X, IP56
- Listed to UL 1638 (strobe) and UL 464 (horn)
- Compatible with System Sensor synchronization protocol and legacy SpectrAlert products
- Field-selectable candela settings: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Rotary switch for horn tone and three volume selections
- Horn rated at 88+ dBA at 16 volts
- Rated from –40°F to 151°F
- Universal mounting plate with an onboard shorting spring that tests wiring continuity before devices are installed
- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- Listed for ceiling or wall mounting

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 offers the broadest line of outdoor horns, strobes, and horn strobes in the industry. With white or red plastic housings, wall or ceiling mounting options, and plain or FIRE-printed devices, SpectrAlert Advance can meet virtually any application requirement, including indoor, outdoor, wet, and dry applications in temperatures from –40°F to 151°F.

Like the entire SpectrAlert Advance line, outdoor horns, strobes, and horn strobes for wall applications include a variety of features that increase application flexibility and simplify installation. First, field-selectable settings, including candela, automatic selection of 12- or 24-volt operation, horn tones, and three volume options enable installers to easily adapt devices to meet requirements.

Next, SpectrAlert Advance devices use a universal mounting plate for both wall and ceiling applications. This mounting plate includes an onboard shorting spring that ensures wiring continuity before devices are installed, so installers can verify proper wiring without mounting the devices and exposing them to potential construction damage. Once the plates are mounted, all SpectrAlert Advance devices utilize a plug-in design with a single captured screw to speed installation and virtually eliminate costly ground faults.

Outdoor devices ship with weatherproof plastic back boxes (metal back boxes are available separately) that accommodate in-and-out wiring for daisy chaining devices. Plastic back boxes feature removable side flanges and improved resistance to saltwater corrosion. Knock-outs located on the back eliminate the need to drill holes for screw-in mounting. Plastic and metal weatherproof back boxes come with ¾-inch top and bottom conduit entries and ¾-inch knock-outs at the back. A screw-in NPT plug with an O-ring gasket for a watertight seal is included with each back box.

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
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)

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

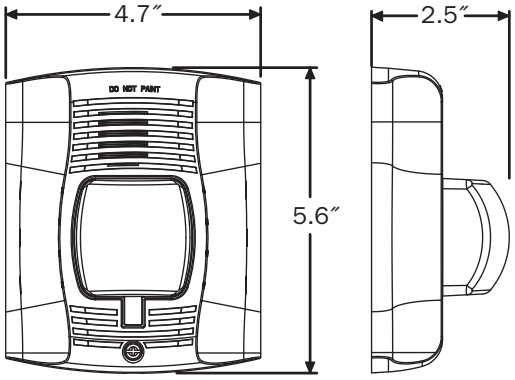
Horn Tones and Sound Output Data

Horn and Horn Strobe Output (dBA)

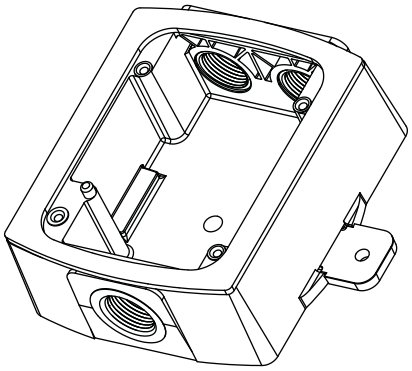
			8–17.5 Volts		16–33 Volts		24-Volt Nominal			
							Reverberant		Anechoic	
Switch Position	Sound Pattern	dB	DC	FWR	DC	FWR	DC	FWR	DC	FWR
1	Temporal	High	78	78	84	84	88	88	99	98
2	Temporal	Medium	74	74	80	80	86	86	96	96
3	Temporal	Low	71	73	76	76	83	80	94	89
4	Non-Temporal	High	82	82	88	88	93	92	100	100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

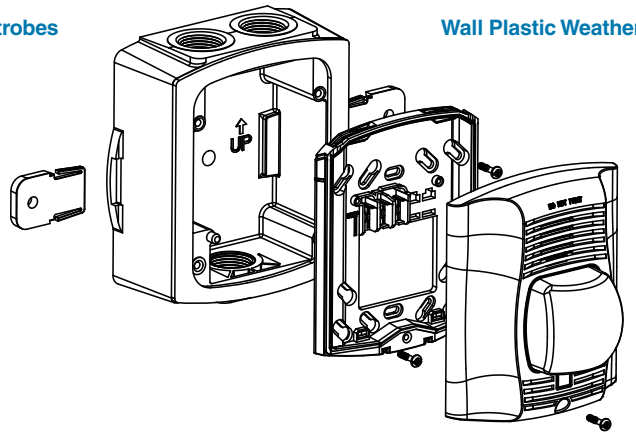
SpectrAlert Advance Diagrams



Wall-Mount Horn Strobes



Wall Plastic Weatherproof Back Box



Wall-Mount Horn Strobe with Plastic Weatherproof Back Box

SpectrAlert Advance Ordering Information

Model	Description
Wall Horn Strobes	
P2RK*†	2-Wire Horn Strobe, Standard cd, Red, Outdoor (includes plastic weatherproof back box)
P2RHK*†	2-Wire Horn Strobe, High cd, Red, Outdoor (includes plastic weatherproof back box)
P2WK*†	2-Wire Horn Strobe, Standard cd, White, Outdoor (includes plastic weatherproof back box)
P2WHK*†	2-Wire Horn Strobe, High cd, White, Outdoor (includes plastic weatherproof back box)
P4RK†	4-Wire Horn Strobe, Standard cd, Red, Outdoor (includes plastic weatherproof back box)
P4WK	4-Wire Horn Strobe, Standard cd, White, Outdoor (includes plastic weatherproof back box)
P2RHK-120	2-Wire Horn Strobe, High cd, Red, Outdoor, 120 V (includes plastic weatherproof back box)
Wall Strobes	
SRK*†	Strobe, Standard cd, Red, Outdoor (includes plastic weatherproof back box)
SRHK*†	Strobe, High cd, Red, Outdoor (includes plastic weatherproof back box)
SWK*†	Strobe, Standard cd, White, Outdoor (includes plastic weatherproof back box)
SWHK*†	Strobe, High cd, White, Outdoor (includes plastic weatherproof back box)
Horns	
HRK†	Horn, Red, Outdoor (includes plastic weatherproof back box)
Accessories	
SA-WBB	Red, Metal Weatherproof Back Box
SA-WBBW	White, Metal Weatherproof Back Box

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), only 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. **When replacing standard outdoor units both the device and back box must be replaced.**

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

AVDS01201 • 3/12

Gamewell FCI FIRE CONTROL INSTRUMENTS

by Honeywell

FM Series

Description

The Rixson Firemark FM Series electromagnetic door releases are hold fire and smoke barrier doors that do not open until released by a remote smoke detector switch, fire alarm control or sprinkler system. In the event of a power failure, the doors are released to close automatically, but the doors may be opened or closed manually at any time.

The door holders have a sprayed aluminum finish.

All models feature a “multi-voltage” design, allowing them to operate on 12 VDC, 24 VAC/DC, or 120 VAC, thus simplifying both the installation and the inventory.

Power Requirements

Voltage	Current
12 VDC	.040 amp.
24 VAC/DC	.020 amp.
120 VAC	.020 amp.

Ordering Information

Part Number	Description	Total Projection from the Wall
140-90000	FM-980 floor mount	N/A
140-90001	FM-981 floor mount, double doors	N/A
140-90002	FM-990 low profile mount	1 7/8 in. (4.9 cm)
140-90003	FM-996 surface mount	4.12 in. (10.05 cm)
140-90004	FF-997 recessed mount	2.6 in. (5.35 cm)
140-90005	FM-998 recessed, concealed wiring	2.6 in. (5.35 cm)

Rixson FireMark
Electromagnetic Door Release

FM - 996

FM - 998

Features

- Fail-safe operation
- Offers approximately 35 lbs. (15.9 kg) capacity of holding power
- Positive release button initiate (Closing motion when the electromagnet is de-energized)

An ISO 9000-2000 Company

SIGNALING UL LISTED R4869 NYC BS&A Approved 287-77-SA 3550-0047:001

GAMEWELL-FCI
12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118

AES CORPORATION 40 Years of SECURITY INNOVATION

7707 Fire Subscribers

IntelliNet 2.0

Introducing a Newer, Smarter Alarm Communications Platform

New Feature Highlights

- Leverages state of the art technology
- Applies advanced security protection
- Offers flexible power and configuration options
- Engineered for backward compatibility with legacy systems
- Enables future ready capabilities
- Provides instant subscriber status through front panel with Power and Trouble LEDs, a backlit LCD display, and Menu/Silence button
- Improves functionality with an adaptive Graphic User Interface (GUI) for programming via smartphones, tablet and PCs
- Plus many more...

Key Benefits that Make 2.0 the Best Alarm Monitoring Solution Ever

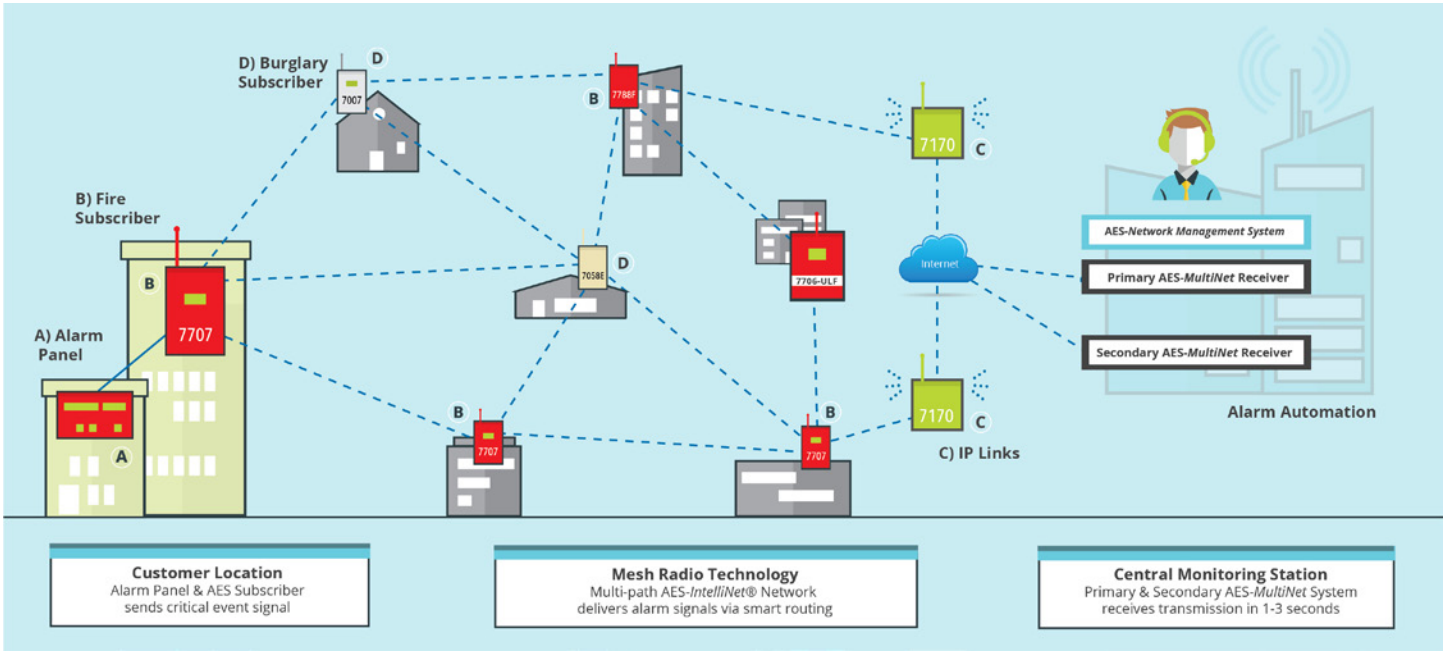
- Built upon the solid foundation of AES-*IntelliNet* patented mesh radio technology for use in private licensed wireless networks
- Protects subscriber units against unauthorized access and rogue activity with a password protected Dealer Code
- Makes programming and streamlined troubleshooting easy with user friendly interface
- Adds integrated supervision of AES-*IntelliPro* full data module
- Provides versatile power options:
  (1) Direct from the Fire Alarm Control Panel (FACP) without requiring an electrician onsite and without Subscriber backup battery
  (2) Directly from the FACP with Subscriber backup battery; or
  (3) Traditional installation with plug in Class 2 low power transformer
- Allows for enhancement upgrades and an expanded number of new features to be added easily with highly flexible and scalable alarm communications infrastructure
- Rigorously tested to the highest industry standards and future ready to meet emerging NFPA code and UL standards

Enhanced Wireless Fire Alarm Monitoring

Powered by AES enhanced mesh radio technology, *IntelliNet* 2.0 7707 Fire Subscribers are next generation universal wireless communicators that provide advanced security protection for any new or existing alarm monitoring network. The AES Model 7707 is ideal for commercial fire applications. With the AES-*IntelliPro* full data module option, they are the ideal drop-in replacement for Plain Old Telephone Service (POTS) lines.

The red metal enclosure comes with a key lock and front panel LCD backlit display with intuitive view that provides an instant visual of the subscriber status. The user friendly GUI makes it easy to program AES subscriber units via a smartphone, laptop, tablet, or integrated Universal Serial Bus (USB)—without the need for special cables or having to use a handheld programmer. Additional knockouts make it easier to mount for faster installation.

IntelliNet 2.0 Private Wireless Mesh Radio Network



The *IntelliNet* 2.0 Fire Subscriber has an 8 Zone modular design for expansion with normal and reverse polarity, POTS and DACT interfaces with an option for the 7794A AES-*IntelliPro* full data module add-on accessory board. AES subscribers' intelligent software automatically detects new hardware and devices to reduce installation time.

An AES certified WiFi accessory allows seamless wireless connectivity for configuration and programming. A laptop, Ethernet cable, or a Wi-Fi USB dongle is required for *IntelliNet* 2.0 programming, handheld programmers will not work with 2.0 units. The forward compatible design allows for feature add-ons, engineered to adapt seamlessly with future software upgrades as technology advances. *IntelliNet* 2.0 allows configuration cloning for faster installation time.

The AES 7707 was designed with quick configuration and installation in mind to make it easier for field technicians to get in, out, and on to the next install.

Visit our Fire Marshal Resources web page for official NFPA and UL Listings:
http://aes-corp.com/products/fire/fire-marshal-resources/

IntelliNet 2.0 Fire Subscribers	
2.0 PREMIUM (UL & ULC Listed, Available Now!)	
7707P-88	*IntelliNet* 2.0 Fire Subscriber, 8 Zone, 8 Supervised Zones, with integrated onboard Local Annunciator, Red Enclosure
7707P-88-ULP	*IntelliNet* 2.0 Fire Subscriber, 8 Zone, 8 Supervised Zones with 7794A AES-*IntelliPro* and integrated onboard Local Annunciator, Red Enclosure
7707P-44	*IntelliNet* 2.0 Fire Subscriber, 4 Zone, 4 Supervised Zones, with integrated onboard Local Annunciator, Red Enclosure
7707P-44-ULP	*IntelliNet* 2.0 Fire Subscriber, 4 Zone, 4 Supervised Zones with 7794A AES-*IntelliPro* and integrated onboard Local Annunciator, Red Enclosure
2.0 FEATURE ADD (Pending UL Review)	
7707P-88-M	*IntelliNet* 2.0 Fire Subscriber, 8 Zone with Multiple Communication Technologies (MCT), Red Enclosure
7707P-88-ULP-M	*IntelliNet* 2.0 Fire Subscriber, 8 Zone with 7794A AES-*IntelliPro*, and integrated onboard Local Annunciator plus MCT, Red Enclosure
7707P-44-M	*IntelliNet* 2.0 Fire Subscriber, 4 Zone with Multiple Communication Technologies (MCT), Red Enclosure
7707P-44-ULP-M	*IntelliNet* 2.0 Fire Subscriber, 4 Zone with 7794A AES-*IntelliPro*, and integrated onboard Local Annunciator plus MCT, Red Enclosure
7707M-UPG	*IntelliNet* 2.0 Fire MCT Software Upgrade
2.0 ACCESSORIES	
7794A	Standalone AES-*IntelliPro* Fire full data module add-on accessory board with firmware for new *IntelliNet* 2.0 units only, cannot be used in legacy units
77-WiFi	AES certified WiFi adapter
***Legacy* Fire Subscribers**	
7706-ULF	Integrated Fire Monitoring System, Red Enclosure
7788F-ULP-P	Legacy Fire Subscriber, 8 Zone with 7795 AES-*IntelliPro* (7794 full data module, 7762 hardware supervisory module, and 7740 Local Annunciator), Red Enclosure
7788F-ULP	Legacy Fire Subscriber, 8 Zone, 8 Supervised Zones with 7794 AES-*IntelliPro*, Red Enclosure
7788F	Legacy Fire Subscriber, 8 Zone, 8 Supervised Zones, Red Enclosure
7744F-ULP-P	Legacy Fire Subscriber, 4 Zone with 7795 AES-*IntelliPro* (7794 full data module, 7762 hardware supervisory module, and 7740 Local Annunciator), Red Enclosure
7744F-ULP	Legacy Fire Subscriber, 4x4 Zone, 4 Supervised Zones with 7794 AES-*IntelliPro*, Red Enclosure
7744F	Legacy Fire Subscriber, 4x4 Zone, 4 Reversing Polarity, 4 Supervised Zones, Red Enclosure
LEGACY ACCESSORIES	
7794	Standalone AES-*IntelliPro* Fire full data module add-on accessory board for legacy units only, please see 7794A above for *IntelliNet* 2.0 version

Technical Specifications

7707 Fire

DIMENSIONS
13”H x 8.5”W x 4.5”D
(33cmH x 21.5cmW x 11.4cmD)

WEIGHT
5.8 lbs (2.6 kilograms)
excluding battery
13 lbs (5.9 kilograms) with
10 Ah battery

RADIO FREQUENCY
Standard Frequency Range:
450-470 MHz
Contact AES for other UHF
and VHF frequencies

ANTENNA
2.5 dB tamper resistant antenna
included, mounts on enclosure
Optional remote mounting
antenna available

POWER INPUT
AC SOURCES
Class 2 transformer
40VA, 120V AC primary
ELK ELK-TRG1640, MG Electronic
Sales MGT1640, and AES 1640 are
UL Listed for use (not included)
1.75A, maximum input
current value
16.5V AC, nominal output value
DC SOURCES
External regulated power supply,
24V DC, rechargeable backup
battery in Subscriber
1.3A, input current
Regulated power supply from FACP
AUX power, 24V DC, UL Listed FACP
with backup battery in FACP
1.3A, input current

BACKUP BATTERY
10-12 Ah, UL recognized lead acid
gel cell, size based on subscriber
configuration

ALARM SIGNAL INPUTS/ZONES
- 8 individually programmable
  E.O.L. type zone inputs
- 4+4: 4 reverse polarity input and
  4 individually programmable
  E.O.L. type zone inputs
- Optional 7794A AES-*IntelliPro* for
  full data via Contact ID, Pulse,
  Modem IIe and Modem IIIa2

UL LISTINGS
UL 864 10th Edition
Standard for Control Units and
Accessories for Fire Alarm Systems
ULC S559-04 1st Edition
Equipment for Fire Signal
Receiving Centres and Systems

TROUBLE OUTPUT—ACK DELAY/ANTENNA CUT
Form C relay, fail secure, rated 24V
DC 1A resistive

RESET BUTTON
Located on main circuit board

OPERATING TEMPERATURE
32 to 120°F (0 to 49°C)

STORAGE TEMPERATURE
14 to 140°F (-10 to 60°C)

RELATIVE HUMIDITY
0 to 93%, non-condensing

RECHARGE CAPABILITY
Will charge 12V battery size
from 10-12 Ah

PORTS
Ethernet for configuration and
communication
USB access for
software upgrade

REMOTE ANNUNCIATOR
AES Model 7740
Remote Annunciator, supervised

COMPATIBLE RECEIVERS
7705i AES-MultiNet Receiver

CONFIGURATION INTERFACE
Web browser capable device
accessible via smartphone, tablet,
laptop, or PC

CURRENT CONSUMPTION
Standby with charged backup
battery: 175 mA
Standby + charging backup battery:
200 mA
Transmitting: 1.2 A (typical
transmission is 1/3 second length)

POWER OUTPUT
2 or 5 Watts
Factory set

ENCLOSURE MATERIAL
Steel with paint finish

FINISH COLOR
Red

VISUAL INDICATORS
Front panel LCD
(2 x 20 alphanumeric character
backlit display)
Power and Trouble LEDs
(ALM Trouble Tx, Rx, WA)

Contact Us

For pricing and availability or to learn more about *IntelliNet* 2.0, please call your local AES Sales Representative at **(800) 237-6387** or email **sales@aes-corp.com.**

www.aes-corp.com

AES Corporation | 285 Newbury Street | Peabody, MA 01960 United States

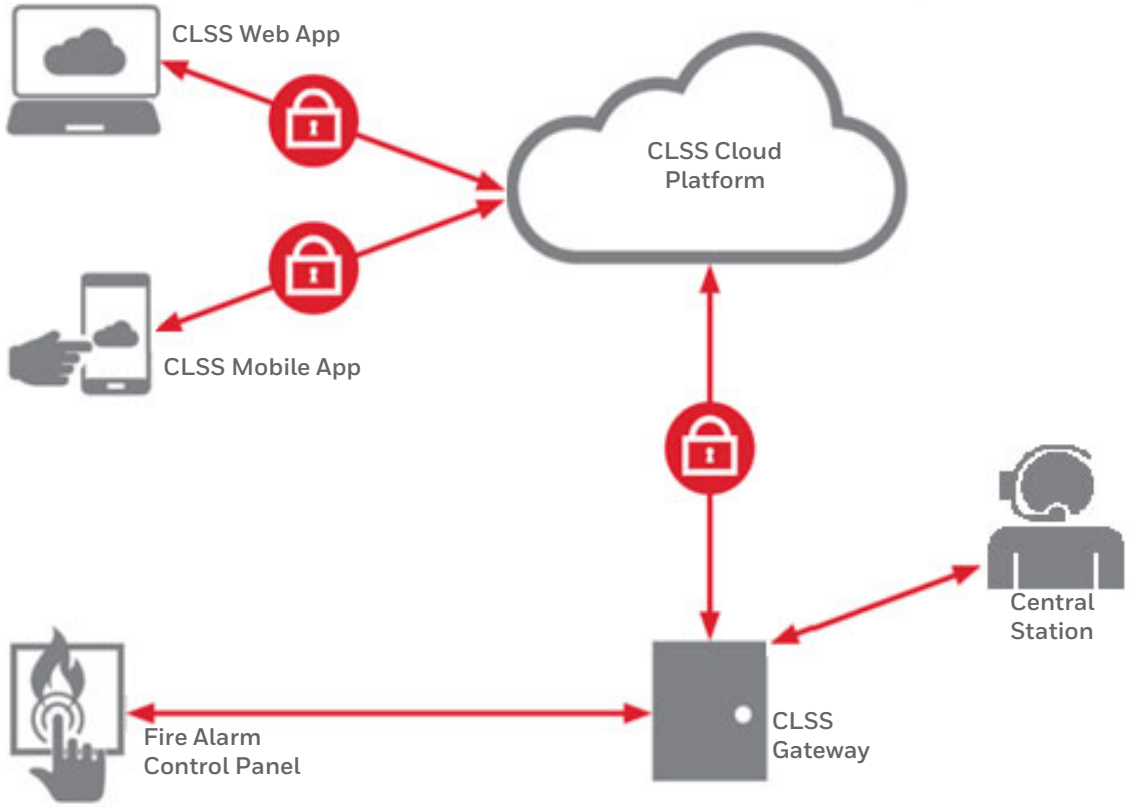
HON-CGW-MBB

Connected Life Safety Services (CLSS) Gateway

The Honeywell® solution for connecting a system to CLSS cloud, central station, mobile productivity tools, and third party services powered by CLSS.

The CLSS Gateway serves as a bridge between a compatible system and the CLSS Cloud platform. It provides a way to securely connect an on-premises system to the Cloud and provides single path from site to Cloud ensuring all CLSS Cloud services and applications use the same audited and monitored method to access the on-premises life safety system.

For additional information, refer to the CLSS Gateway UL Listing Document (LS10248-051HW-E).



FEATURES AND BENEFITS

- Connects directly to compatible Honeywell fire alarm control panels (FACPs) or panel networks
- Provides seamless integration with the CLSS mobile application
- BlueTooth® mobile pairing for Gateway configuration and control capability on Android ™ and iOS® devices
- Wireless or wired connection from the Gateway to the CLSS Cloud
- Panel connection options include standalone panel, networked panel, and standalone with digital voice control
- Can be used for portable (without optional cellular module) or permanently installed applications
- Serves as a fire alarm communicator to the central station *
- Collects system data from the connected FACP and sends it to the CLSS Cloud enabling productivity and efficiency tools and features

Honeywell

AGENCY LISTINGS AND APPROVALS

The listings and approvals below apply to the HON-CGW-MBB. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Contact Honeywell for the latest listings.

- **UL:** File No. S35608
- **CSFM:** 7300-1637:0504
- **FDNY:** COA# 2021-TMCOAP-006279-AMND
- **FCC ID:** PV3CGWMB
- **IC:** 1609A-CGWMB

ORDERING INFORMATION

- **HON-CGW-MBB:** CLSS Gateway with the enclosure

OPTIONAL EQUIPMENT

- **Communication Modules*:**
  - **CCM-ATT-HON:** Cellular Communication Module for ATT®
  - **CCM-VZ-HON:** Cellular Communication Module for Verizon®

  Refer to datasheet HON-62041 for additional information.

  * Fixed location applications only.

CUSTOMER SUPPLIED EQUIPMENT

- Mobile Device for the CLSS Gateway application (either iOS or Android)

HON-CGW-MBB TECHNICAL SPECIFICATIONS

	Imperial Unit	Metric Unit
Gateway:		
Power		
Operating Voltage Range	18 V DC to 30 V DC	
Rated Current (Typical)	0.140A#	
Environment		
Operating Temperature	32°F to 120°F	0°C to 49°C
Storage Temperature	14F°to 140°F	-10°C to 60°C
Relative Humidity	1% to 93% Non-condensing	
Physical		
Dimensions (with Enclosure)	2.788" D x 8.023" W x 10.25" H	7cm D x 20.37 cm W x 26 cm H
Weight - Gateway + Enclosure	1.9 lb	861.8 gm
Weight - Cellular Module	0.097 lb	44 gm
IP Code	N/A	IP 30 (Cable Glands required)
Enclosure Material	Black, Flame Retardant ABS-FR (17) Polylac® PA-765	
Wireless Transmitter:		
Power		
Battery Voltage (VBAT)	3.6 V	
Output Power @ Module RF Antenna Port	3.4 W	
Target Power (Typical)	15 dBm^	
Environment		
Ambient Temperature	77° F	25° C

#Includes cellular module.

^ Meets spectrum mask and EVM compliance.

Radio devices operating on the frequencies listed in the table below should not be installed next to each other.

Wireless Power Specifications

2.4 GHz TX Power Specifications							
IEEE 802.11	**Mod**	**Rate**	**BW (MHz)**	**Channel**	**Spec (TYP)**	**Units**	**Tol. (dB)**
11b	CCK, DSSS	1-11 Mbps	20	1-13	17.5	dBM	±2.0
11g	OFDM	6-54 Mbps	20	1-13	15	dBM	±2.0
11n	OFDM	MCS 0-7	20	1-13	15	dBM	±2.0
11ac	OFDM	MCS 0-8	20	1-13	14	dBM	±2.0
5 GHz TX Power Specifications							
11a	OFDM	6-54 Mbps	20	36-48 52-64 100-144	15	dBM	±2.0
11n	OFDM	MCS 0-7	20	36-48 52-64 100-144	15	dBM	±2.0

Country of origin: China/People's Republic of China

Honeywell International, Inc.
www.fire.honeywell.com

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS

HON-62034 | K | 08/22

THE FUTURE IS WHAT WE MAKE IT

Honeywell

ACE BOX

BY SPACE AGE ELECTRONICS

DSB ACE-12

Drawing Storage Box

Be sure to secure vital documentation such as evacuation routes and layout drawings in a safe and easily indentifiable location

The DSB securely holds up to a 36” tall architectural roll of drawings. One inch tall lettering silk-screened with permanent white indelible ink on two sides provides 180 degrees of viewing for immediate identification for emergency responders.

SPECIFICATIONS

The Drawing Storage Box (DSB) shall be UL listed, constructed of 18 gauge cold rolled steel, and shall be painted with durable powder coat. Overall dimensions will be 37” tall, 6” wide and 4 1/4” deep. The access door shall be lettered on two angled sides of the cabinet, providing 180 degrees of viewing with “FIRE ALARM DOCUMENTS” in white indelible letters minimum of 1” in height. The door shall have a stainless continuous piano hinge. The door of the DSB shall be locked with a keyed 3/4” barrel lock. Inside the cabinet shall have an adjustable hook and look strap to secure drawings. Location to hold keys and secure emergency contact information will also be included.

FAMILY OWNED MADE IN USA SINCE 1963

UL LISTED

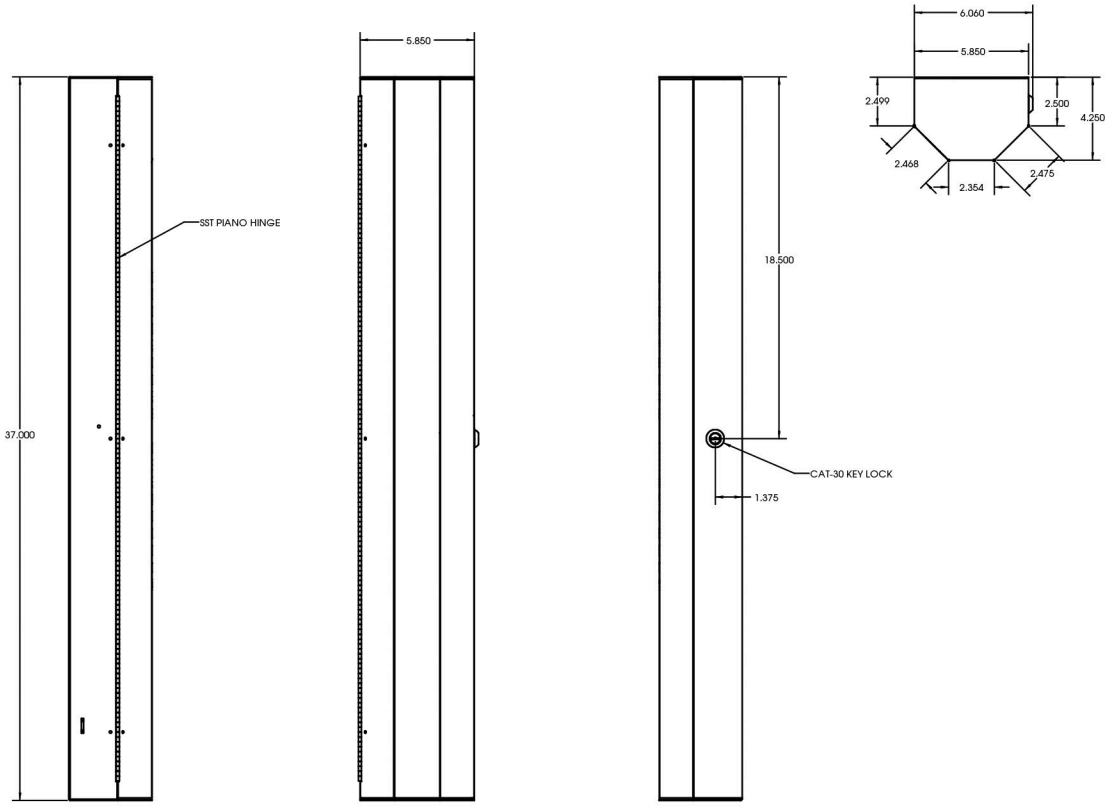
CAL FIRE SINCE 1885

FEATURES

- Durable 18 gauge steel construction
- Dimensions are 37” tall x 6” wide x 4 1/4” deep
- Continuous stainless steel hinge
- 1” white indelible lettering
- Holds up to 36” long rolled documents

CUSTOM COLORS AND BRANDING AVAILABLE

DIMENSIONS



ORDERING INFORMATION

P/N# SSU00625
DSB Drawing Storage Box - Red

P/N# SSU00626
DSB Drawing Storage Box - Black