Project Eveler

Coastal Pacific Food Distributors
322 Valley Avenue Northwest, Puyallup, Washington, US, 98371

To 1 reviewer

From

Claire Martin
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Fire Alarm Product Data

Reviewed only

Jul 29, 2024

Submittal no.	Version	Spec section	Due date
26A-04	1	-	Aug 5, 2024

Included items

No items

Reviewers

1/1 complete

Reviewer	Review response	Date Reviewed
Chadwick Stewart	Reviewed only	Jul 29, 2024

Whiting-Turner

Reviewed only

on 7/22/2024
by Claire Martin

☑ REVIEWED ☐ REVISE AND RESUBMIT

☐ REVIEWED AS NOTED ☐ NOT APPROVED

Checking is only for compliance with the design concept of the Project and information in the Contract Documents. Contractor is responsible for quantities, dimensions, information pertaining to the fabrication processes or techniques of construction, and coordination of the Work of all trades.

Andrew W. Booth & Associates, Inc.

DATE 7/29/2024 BY cstewart

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1100 Merrill Creek Pkwy • Everett, WA 98203
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Submittal Data Information

Project:

Project Eveler

Fire Alarm

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Fire Alarm

ASM-16

ASM-16 Adderssable Swith Module

The ASM-16 module is the remote annunciator interface for the E3 Series® Fire, Mass Notification and Voice Evacuation Systems.

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.

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
  - All-call, phone patch
  - System Silence
  - Lamp test, alarm tone on
  - System Acknowledge
  - 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

ASM-16

ASM-16 (Display)

FEATURES AND BENEFITS

- Listed under UL® Standard 864, 10th Edition
- Listed under UL® Standard UL2572, 2nd Edition 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

Honeywell

Gamewell FCI

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, 10th Edition
UL 2572, 2nd Edition
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

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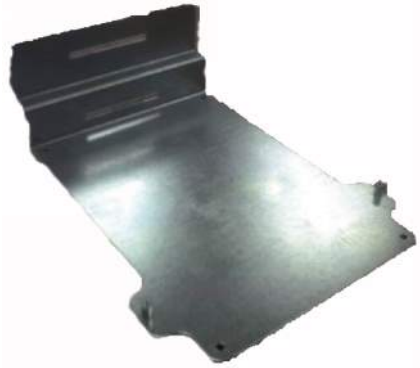
www.gamewell-fci.com

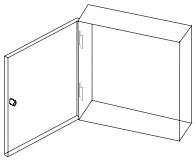
9020-0554 | Q | 06/20

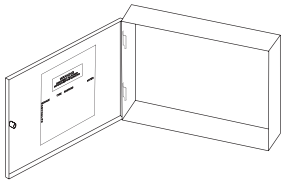
NO EXCUSES!

2MB

2 “Multi I/O” Module Bracket







AC2 Cabinet Enclosure (PN: SSU00656)
Holds 2 2MB brackets 13.75” H x 13.75” W x 3.25”D

ACE Cabinet Enclosure:

- A size holds 4 2MB brackets 23 1/2” x 13” (PN SSU00655)
- D size holds 8 2MB brackets 23 1/2” x 23 1/2” (PN SSU00657)

he 2MB Multi-Module Assembly Bracket is designed to hold up to two System Sensor style Multiple Input and Output Addressable Modules. Ideally suited for Gamewell-FCI, Notifier, Firelite, and other addressable module installations.

Each Multiple IO module is installed independently with the field wiring connections easily accessible. The 2MB is supplied with all of the hardware required to mount it to any of the Space Age ACE Cabinets for a professional installation.
Space Age’s ACE Cabinet size “A” (SSU00655) or “D” (SSU00657) and AC2 Cabinet (SSU00656) are instock and features key access and a lift away removable door to access the address modules and field wiring thus allowing you time saving maintenance and trouble shooting of the system.

A 3MB Bracket is available. It allows for the mounting of 3 System Sensor Multi I/O Addressable Modules per bracket. This unit only fits the ACE “A” and “D” Cabinets, not the AC2.

Standard Features:

Secures 2 System Sensor I/O Modules per 2MB.
Matches ACE and AC2 cabinet mounting holes.
2, 2MBs mount in the AC2 Cabinet (4 Multi I/O Mods)
4, 2MBs mount in the ACE A Cab (8 Multi I/O Mods)
8, 2MBs mount in the ACE D Cab (16 Multi I/O Mods)
• 20 gauge steel construction

NFPA®

Made In U.S.A.

NEMA
ISO9001
REGISTERED

ACE BOX
Space Age Electronics, inc.
www.1SAE.com
800.486.1723 Toll Free
508.485.0966 Local
508.485.4740 Fax

No Excuses, Just Solutions!

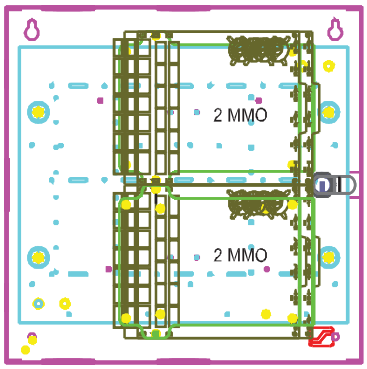
SPACE AGE ELECTRONICS, INC.

Specifications:

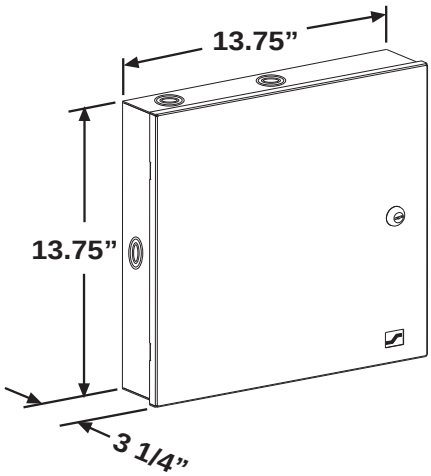
The 2MB Bracket is made of 20 gauge cold rolled steel (CRS) and is galvanized to protect the metal from corrosion. Each bracket can support two of System Sensor's multi I/O modules.

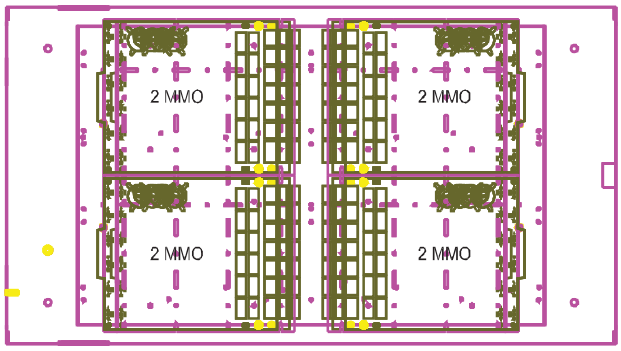
The 2MB can be purchased separately or through Space Age's Custom Assembly and be mounted in any number of our cabinets (below are just a few), Call For pricing.

System Sensor part numbers are: CR-6, SC-6, CZ-6 and the IM-10. These can be purchased separately and mounted in the brackets for you as well.



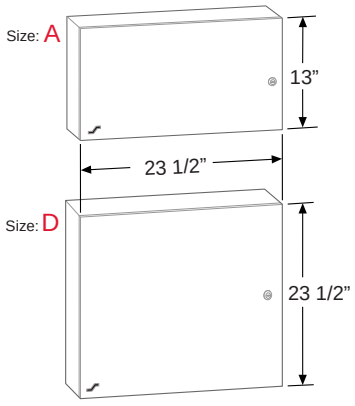
AC2 Cabinet with two (2) 2MB Brackets.
Total of 4 System Sensor Multi I/O Modules





ACE "A" Cabinet with Four (4) 3MB Brackets.
Total of 12 System Sensor Multi I/O Modules
ACE "D" can hold eight (8) 2MBs or 16 Modules.

Overall Cabinet Dimensions



Ordering Information:

Part #	Description
SSU00456	2MB multi I/O Module Bracket

ACEBOX
Space Age Electronics, inc.
www.1SAE.com
800.486.1723 Toll Free
508.485.0966 Local
508.485.4740 Fax

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Gamewell FCI FIRE CONTROL INSTRUMENTS
by Honeywell

Velociti® Series
AMM-2F

Description

The Gamewell-FCI Velociti® Series, addressable monitor module AMM-2F is a single Style B, Class B initiating device circuit (IDC) with a 47KW end-of-line resistor. This module provides an address for any device or group of devices connected to this circuit on the signaling line circuit (SLC) of the Gamewell-FCI addressable series fire alarm control panel. Any initiating device with normally open (N.O.) dry contacts may be made addressable when connected to the AMM-2F module.

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-2F module can be programmed to provide a wide variety of input functions to the Gamewell-FCI addressable series fire alarm control panels. It can be identified as a manual station, heat detector, plenum detector, waterflow switch, tamper switch, N.O. contact, smoke detector, projected beam smoke detector, sub loop, remote zone, etc. It can also serve as a remote system silence, system reset, system acknowledge or drill switch. It is even possible to customize its device type to meet specific job requirements.

The initiating device circuit of the AMM-2F can support a maximum line resistance of up to 40 ohms allowing the use of linear heat detection devices. The compact size facilitates the installation of the module inside manual stations, or mounting boxes of various types of alarm initiating devices.

Addressable Monitor Module

AMM-2F

Features

- Compact size allows easy installation
- Class B, Style B, initiating circuit
- 40 Ohm line resistance for each initiating device circuit
- Connects to any normally open dry contact device

Specifications

Supervisory Current:	.000375 amps
Alarm Current:	.00060 amps
Operating Temperature:	32° to 120° F (0° to 49° C)
Relative Humidity:	10 to 93% (non-condensing)
End-of-Line Resistance:	47K ohms
Dimensions:	1.3" L x 2.5" W x 0.5" D (3.3 x 6.4 x 1.3 cm)

Ordering Information

Part Number	Description
AMM-2F	Addressable monitor module, single circuit, Style B, Class B

An ISO 9001-2000 Company

SIGNALING UL LISTED S1949 · FM APPROVED 3023594 · MEA Approved 227-03-E VOL IV · 7300-1703:102

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

Gamewell FCI FIRE CONTROL INSTRUMENTS
by Honeywell

Velociti® Series
AMM-2RIF

Description

The Gamewell-FCI Velociti Series multi-function module (AMM-2RIF) combines two relay outputs and two monitor inputs into one device. The module is capable of Class B supervised wiring that is used for the monitored devices. It also contains Form C relay contacts which allow the panel to switch the contacts on command. There is a dedicated LED on the module for each input and output. The control panel can use these bi-color LEDS to indicate normal, alarm and trouble conditions.

This module is ideally suited for areas where inputs and outputs are needed in the same location. It could be used to function with any of the following devices:

- smoke/fire dampers
- security doors
- HVAC fan
- dedicated smoke control
- non-dedicated smoke fan

By combining two (2) relay outputs and two (2) monitor inputs into one device, you can save the cost of installing four (4) devices. This feature can be beneficial when you need to install these devices in high rise buildings or large shopping complexes.

The two input/two output module is the same size module as the standard single modules. It can mount directly to a 4-inch (10.16 cm) square electrical box, the surface mounted SMB500, or into a DNR(W) duct housing.

Relay Contact Ratings			
Current Rating	**Maximum Voltage**	**Load Description**	**Application**
2 A	25 VAC	PF = 0.35	Non-coded
3 A	30 VDC	Resistive	Non-coded
2 A	30 VDC	Resistive	Coded
0.46 A	30 VDC	Inductive (L/R - 20ms)	Non-coded
0.7 A	70.7 VAC	PF = 0.35	Non-coded
0.9 A	125 VDC	Resistive	Non-coded
0.5 A	125 VDC	PF = 0.75	Non-coded
0.3 A	125 VDC	PF = 0.35	Non-coded

Velociti® and E3 Series® are registered trademarks of Honeywell International Inc.

Addressable Input/Output Module

AMM-2RIF

Features

- Provides two (2) relay outputs and two (2) monitor inputs in one space-saving module
- Offers visual rotary, decimal switch addressing (01-159)
- Contains the following:
  - Two (2) sets of Class B initiating device circuits
  - Two (2) sets of Form C relay contacts
- Uses bicolor LEDs for each input and output flash, when addressed, and lights steady when in alarm
- Includes a Dip switch to manually disable one (1) input and one (1) output
- Ideal for fan, smoke control, and door entry installations

SIGNALING UL LISTED S1949 7300-1703-0174

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS

GAMEWELL-FCI
12 Clintonville Road, Northford, CT 06472-1653 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118

Description (Continued)

Use rotary switches to set the address setting. You can set the base via the rotary switch and assign the address to Relay Output #1 from Address 00 to Address 156. The module automatically assigns the next three addresses as appropriate to Monitored Input #1, Relay Output #2, and Monitored Input #2. If the Relay Output #2 or the Monitored Input #2 are not used, use the DIP switch to manually disable those addresses. You can use Relay Output #2 and the Monitored Input #2 addresses for other devices on the loop.

Figure 1 illustrates the Address Disable Switch.

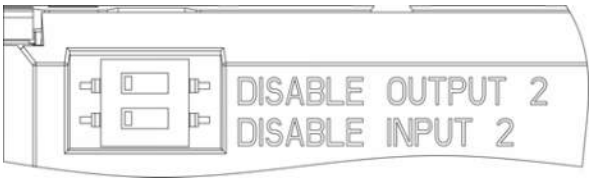

Figure 1 Address Disable Switch

Specifications

Supervisory Current:	0.00130 A
Alarm Current:	0.024 A
Operating Temperature:	32°F to 120°F (0°C to 49°C)
Relative Humidity:	10% to 93% (Non-condensing)
Temperature Rating:	32°F to 120°F (0°C to 49°C)
Dimensions:	4 1/2” H x 4” W x 1 1/4” D (11 H x 10.2 W c 3.2 D cm)
End-of-Line Resistor:	47k Ohms

Ordering Information

Part Number	Description
AMM-2RIF	Addressable 2 Input/2 Output Module

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

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® AOM-2RF and other products available by visiting www.Gamewell-FCI.com

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203.484.7161
www.honeywell.com

9020-0625 | H | 08/18

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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.

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

AOM-2SF

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

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www.honeywell.com

9020-0627 | | |08/18

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Velociti® Series AOM-TELF

Addressable Audio Evacuation Module

General

The Gamewell-FCI Velociti® Series, Telephone Monitor Module (AOM-TELF) controls the communications between the command center and the telephone jacks/warden stations. Wiring to individual telephone jacks and handsets is supervised and may be configured as two-wire (Class B) or fault tolerant (Class A). Status is reported to the panel as the following:

- NORMAL
- TROUBLE
- TELEPHONE

The module contains a panel-controlled LED indicator.

The AOM-TELF is installed in the signaling line circuit of the Gamewell-FCI Emergency Voice Evacuation Systems. The AOM-TELF is designed to fit into a 4" (10.16 cm) square junction box 2 1/8" (5.5 cm) deep.

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 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 result is a superior response speed up to five times greater than earlier designs.

AOM-TELF

Ordering Information

AOM-TELF: Telephone monitor module

FEATURES & BENEFITS

- Listed under UL® Standard UL 864 and UL2572 for Mass Notification
- Designed as a compact size to allow easy installation
- Provides Class A fault tolerant or Class B wiring
- Includes a bi-color LED that flashes green whenever the module is addressed, and lights steady red upon activation*

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

Velociti® Series AOM-TELF Technical Specifications

SYSTEMS

Supervisory Current: AOM-TELF .0024 A
Alarm Current: AOM-TELF .0075 A
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 10.16 W x 3.2 D cm)
End-of-Line Resistance: AOM-TELF—3.9K

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-TELF 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 AOM-TELF and other products available by visiting www.Gamewell-FCI.com

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9020-0628 | H | 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

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INTELLIGENT BASES

Standard, Relay, Isolator, Sounder, and Low Frequency Sounder Bases

To meet local code and application requirements, Gamewell-FCI® offers standard 4" and 6" bases, as well as specialty base designs including relay, isolator, sounder and low frequency sounder bases that are UL listed for low frequency operation and comply with NFPA 72 requirements for sleeping spaces for the new Gamewell-FCI Series of addressable detectors as well as previous generations.

The standard 4" and 6" bases offer a plug-in detector base intended for use in intelligent systems, with screw terminals provided for power (+ and –), and remote annunciator connections. Communication takes place over the power (+ and –) lines. The 4" base offers a compact design while the 6" base provides compatibility with a wider range of junction boxes.

The specialty bases support application driven requirements. These bases employ a separate mounting plate that installs on various junction box sizes to eliminate unsightly surface-mount boxes. The mounting plate enables pre-wiring of all connections to speed and simplify installation.

Relay bases (B224RB-WH/B224RB-IV) provide one form-C contact relay for control of auxiliary functions, such as door closure and elevator recall. The relay can operate in two different modes (short and long delay). The activation time for the short delay is 60-100 milliseconds, while the activation time for the long delay is 6-10 seconds. A shunt with pin headers, located on the base PC board, is used to set the delay timing.

Isolator bases (B224BI-WH/B224BI-IV) allow the Signaling Line Circuit (SLC) loop to operate under fault conditions created from a short circuit preventing an entire communication loop from being disabled. The base isolates the section of the loop containing the short circuit from the remainder of the circuit and automatically restores when the fault is corrected.

Sounder and low frequency (-LF) sounder bases are designed for new and existing dwelling unit applications. They offer maximum flexibility in installation, configuration, and operation to meet or exceed UL 268 and UL 464 requirements. The low frequency sounder bases are designed to meet 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 most ideal to wake sleeping occupants, even those with mild to severe hearing loss.

B300-6 Standard 6" Base (White)

B200S-WH Sounder Base (White)

B501-WHITE Flangeless 4" Base (White)

B501-BL Flangeless 4" Base (Black)

FEATURES AND BENEFITS

- Bases enable quick and secure detector plug-in
- SEMS Screws provide easy wiring connection
- UL 268 compliant
- Support for 12-24 AWG provides installation flexibility
- Multiple base formats meet application requirements
- Standard white color with ivory and black options
- Mechanical locking feature restricts removal of attached sensor head
- Specialty Base Features:
- Pre-wired mounting plate simplifies installation
- Application driven feature sets
- Sounder bases both UL268 and UL464 compliant

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The B200S sounder and LF sounder bases (B200S-WH/B200S-IV/B200S-LF-WH/B200S-LF-IV) adopt the same address as the detector, but use a unique device type on the loop. The Fire Alarm Control Panel (FACP) can use that address to command an individual sounder — or a group of sounders — to activate. The command set from the FACP can be tailored to multiple event-driven tone outputs allowing selection of volume (75 or 85 dBA), tone (ANSI Temporal 3, ANSI Temporal 4, or March Time) and group. In addition, some FACPs will enable custom tone patterns. The B200S series sounder bases recognize the System Sensor synchronization protocol. This enables them to be used as a component of the general evacuation signal — along with other System Sensor AV appliances — when connected to a power supply or FACP output capable of generating the System Sensor synchronization pulses.

The B200SR sounder and LF sounder bases (B200SR-WH/B200SR-IV/B200SR-LF-WH/B200SR-LF-IV) are fully compatible with existing B501BH Series sounder base installations. The device enables users to select one of two B501-supported tones (ANSI Temporal 3 or Continuous) through a jumper.

PRODUCT LINE INFORMATION

INTELLIGENT BASES

"-IV" suffix indicates Ivory color model.

"-BL" suffix indicates Black color model.

"-WH" and "-WHITE" suffix indicates White color model.

B210LP: Flanged mounted base.

B210LPA: Same as B210LP; ULC listed.

B210LPBP: Bulk pack of B210LP, contains 10.

B300-6: White, 6" base, standard flanged low-profile mounting base

B300-6-BP: Bulk pack of B300-6, package contains 10

B300-6-IV: Ivory,6" base, standard flanged low-profile mounting base.

B501-WHITE: White, 4" standard European flangeless mounting base. UL/ULC listed

B501-WHITE-BP: Bulk pack of B501-WHITE, contains 10

B501-BL: Black, 4" standard European flangeless mounting base

B501-IV: Ivory color, 4" standard European flangeless mounting base

B224RB-WH: White, relay base

B224RB-IV: Ivory, relay base

B224BI-WH: White, isolator detector base

B224BI-IV: Ivory isolator detector base

B200S-WH: White, Intelligent addressable sounder base capable of producing sound output in high or low volume with ANSI Temporal 3, ANSI Temporal 4, continuous tone, marching tone, and custom tone; Uses Velociti® protocol

B200S-IV: Ivory, Intelligent addressable sounder base capable of producing sound output in high or low volume with ANSI Temporal 3, ANSI Temporal 4, continuous tone, marching tone, and custom tone; Uses Velociti® protocol

B200S-LF-WH: White, Low Frequency Intelligent, programmable sounder base, produces a fundamental frequency of 520 Hz +/- 10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement

B200S-LF-IV: Ivory, Low Frequency Intelligent, programmable sounder base, produces a fundamental frequency of 520 Hz +/- 10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement

B200SR-WH: White, Intelligent sounder base capable of producing sound output with ANSI Temporal 3 or continuous tone; Intended for retrofit applications

B200SR-IV: Ivory, Intelligent sounder base capable of producing sound output with ANSI Temporal 3 or continuous tone; Intended for retrofit applications

B200SR-LF-WH: White, Low Frequency Intelligent, programmable sounder base, produces a fundamental frequency of 520 Hz +/- 10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement; intended for retrofit applications

B200SR-LF-IV: Ivory, Low Frequency Intelligent, programmable sounder base, produces a fundamental frequency of 520 Hz +/- 10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement. Intended for retrofit applications.

MOUNTING KITS AND ACCESSORIES

TR300: White, replacement flange for B210LP, B300-6 base

TR300-IV: Ivory, replacement flange for B210LP, B300-6-IV base

RA100Z: Remote LED annunciator, 3 – 32 VDC, mounts to a U.S. single-gang electrical box; For use with B501 and B300-6

M02-04-00: Test magnet

M02-09-00: Test magnet with telescoping handle

CK300: White, detector color kit, pack of 10

CK300-IV: Ivory, detector color kit, pack of 10

CK300-BL: Black, detector color kit, pack of 10

JUNCTION BOX SELECTION GUIDE

Base Models	Single Gang	Double Gang	3.5" Oct.	4.0" Oct.	4.0" Square	4.0" Square with 3.0" mud ring	50 mm	60 mm	70 mm	75 mm
B200S,B200SR	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
B501	No	No	Yes	No	No	Yes	Yes	Yes	Yes	No
B300-6	Yes	No	Yes	Yes	Yes	Yes	No	No	No	No
B224BI, B224RB	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No

Box depth contingent on base and wire size.
Refer to National Electric Code or applicable local codes for appropriate recommendations.
Applies to all model variants "BL", "-LF", "-IV", "-WH", and "-WHITE". See Product Line Information for detailed model description.

INTELLIGENT BASES TECHNICAL SPECIFICATIONS

ELECTRICAL

For B300-6 Series bases:
- **Operating voltage:** 15 to 32 VDC
- **Standby current:** 170 µA maximum

For B501 Series bases:
- **Operating voltage:** 15 to 32 VDC
- **Standby current:** 150 µA maximum

For B200 Series bases:
- **External supply voltage:** 16 to 33 VDC (FWR)
- **Standby current:** 500 µA maximum
- **Alarm current for B200S(-IV)(-WH):**
  35 mA maximum at high-volume setting
  15 mA maximum at low-volume setting
- **Alarm current for B200S-LF(-IV)(-WH)** High-volume setting:
  70 mA maximum @ 33.0 VDC
  90 mA maximum @ 24.0 VDC
  140 mA maximum @16.0 VDC
- **Alarm current for B200S-LF(-IV)(-WH)** Low-volume setting:
  15 mA maximum @ 33.0 VDC
  20 mA maximum @ 24.0 VDC
  25 mA maximum @ 16.0 VDC
- **Alarm current for B200SR(-IV)(-WH):** 35 mA maximum
- **Alarm current for B200SR-LF(-IV)(-WH):**
  65 mA maximum @ 33.0 VDC
  90 mA maximum @ 24.0 VDC
  125 mA maximum @16.0 VDC

SLC operating voltage: 15 to 32 VDC

SLC standby current: See applicable sensor specification

Sound output: Greater than 85 dBA minimum; measured in a UL reverberant room at 10 feet, 24 Volts (continuous tone)

For B224BI, B224RB (-IV) (-WH) bases:
- **Operating voltage:** 15 to 32 VDC (powered by SLC)
- **Standby ratings:** <450 µA maximum @ 24 VDC
- **Set time: (B224RB(-IV)(-WH) only):** short delay 60-100 msec; long delay 6-10 seconds
- **Reset time: (B224RB/-IV/-WH only):** 20 milliseconds maximum
- **Relay characteristics: (B224RB/-IV/-WH only):** two-coil latching relay; one Form-C contact; ratings (UL/CSA): 0.9 A @ 125 VAC, 0.9 A @ 110 VDC, and 3.0 A @ 30 VDC

PHYSICAL

Note: Specifications applies to all model variants "-BL", "-LF", "-IV", -WH, -WHITE. See Product Line Information for detailed model description.

Diameter:
- **B501-WHITE:** 4" (10.16 cm)
- **B300-6, B210LP:** 6.1" (15.49 cm)
- **B224BI, B224RB:** 6.2" (15.748 cm)
- **B200S, B200SR:** 6.875" (17.46 cm)

Wire gauge:
- **B224BI, B224RB:** 14 to 24 AWG
- **B300-6, B210LP, B501, B200S, B200SR**12 to 24 AWG

Temperature range:
- **B224BI, B224RB, B200S, B200SR:** 32°F to 120°F (0°C to 49°C)
- **B300-6, B210LP, B501:** -4°F to 150°F (-20°C to 66°C)

Humidity range: 10% to 93% RH, non-condensing

System temperature and humidity ranges: This system meets NFPA requirements for operation at 0°C to 49°C (32°F to 120°F); and at a relative humidity (non-condensing) of 85% at 30°C (86°F) per NFPA, and 93% ± 2% at 32°C ± 2°C (89.6°F ± 1.1°F) per ULC. 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 all peripherals be installed in an environment with a nominal room temperature of 15°C to 27°C (60°F to 80°F).

AGENCY LISTINGS AND APPROVALS

The listings and approvals below apply to intelligent bases as noted. 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: S911

FM Approved

CSFM: 7300-1653:0109, 7300-1653:0126, 7300-1653:0213, 7300-1653:0238

Country of origin: Mexico

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9021-60540 | K | 07/19

BAT Series Batteries Sealed Lead-Acid or Gel Cell

Description

BAT Series Batteries are Gamewell-FCI approved sealed lead-acid batteries that can be used for all your fire alarm system needs. Multiple brands of batteries are now offered under generic part numbers, reducing back order situations and permitting us to deliver these products in a more timely fashion. Gamewell-FCI has approved the multiple brands listed below as a possible product shipped for a given part number. Please note that any incoming orders for "PS Series" batteries will be converted to the equivalent BAT Series part numbers.

Current Part Number	Battery Description	Alternates Approved: Manufacturers and P/Ns Shipped under BAT P/Ns
BAT-1250	12V, 5AH, sealed.	BP5-12 (B&B Battery), PS-1250 (Power-Sonic), UB1250 (UPG).
BAT-1270	12V, 7AH, sealed.	BP7-12 (B&B Battery), PS-1270 (Power-Sonic), UB1270 (UPG).
BAT-12120	12V, 12AH, sealed.	BP12-12 (B&B Battery), PS-12120 (Power-Sonic), UB12120 (UPG).
BAT-12180	12V, 18AH, sealed	PS-12180 (Power-Sonic), SA UB12180 (UPG).
BAT-12260	12V, 26AH, sealed	BP26-12 (B&B Battery), PS-12260 (Power-Sonic), UB12260 (UPG).
BAT-1250	12V, 5AH, sealed	BP5-12 (B&B Battery), PS-1250 (Power-Sonic), SA 1250 (UPG).
BAT-12550	12V, 55AH, sealed	PS-12550 (Power-Sonic), UB12550 (UPG).
BAT-121000	12V,100 AH, gel cell.	PS-121000 (Power-Sonic), XSA121000A (UPG.)

MH19884 (B & B Battery)
MH20727 (UPG)
MH20845 (Power-Sonic)

MH20727

MH19884

MH20845

Features

- Provide secondary power for control panels
- Sealed and maintenance-free
- Overcharge protected
- Easy handling with leakproof construction
- Ruggedly constructed, high-impact case (ABS, polystyrene, or polypropylene, depending on models)
- Long service life
- Compact design

An ISO 9000-2000 Company

SIGNALING UL LISTED

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

POWER SONIC

Model	Nominal Voltage V	Nominal Capacity @ 20 hr. rate A.H.	Discharge Current @ 20 hr. rate mA	Dimensions									
				Width		Depth		Height		Height over Terminal		Weight	
				in.	mm.	in.	mm.	in.	mm.	in.	mm.	lbs.	kg.
PS-1250	12	5.0	250	3.54	90	2.76	70	4.02	102	4.21	107	4.1	1.9
PS-1270	12	7.0	325	5.94	151	2.56	65	3.70	94	3.86	98	5.7	2.6
PS-12120	12	12	600	5.94	151	3.86	98	3.70	94	3.86	98	8.8	4.0
PS-12180	12	18	875	7.13	181	2.99	76	6.57	167	6.57	167	12.8	5.8
PS-12250	12	25	1300	6.89	175	6.54	166	4.92	125	4.92	125	18.7	8.5
PS-12550	12	55	3000	10.25	260	6.60	168	8.20	208	9.45	240	39.7	18.0
PS-121000	12	100	5000	12.00	305	6.60	168	8.20	208	9.45	240	65.7	29.8

Characteristic Discharge Curves

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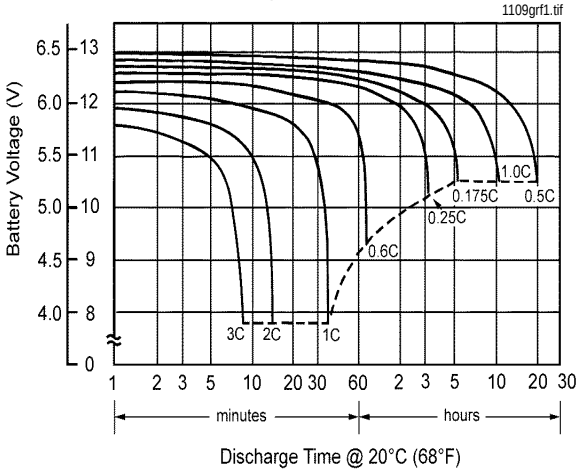

PS-121000 Shelf-Life and Storage

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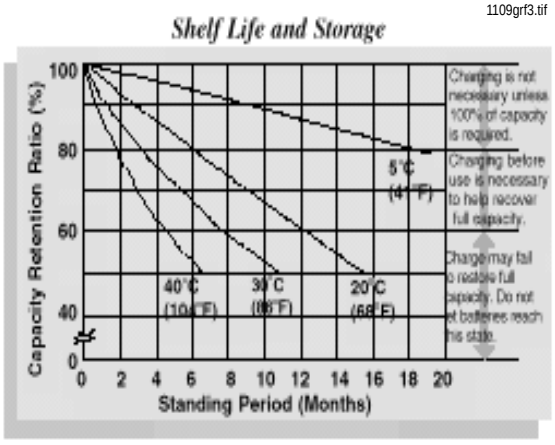

PS-121000 Discharge Characteristics

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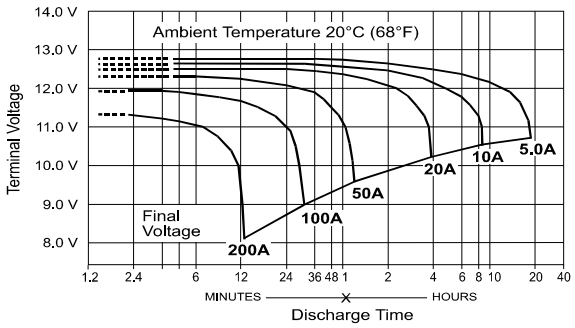

Effect of Temperature on Capacity

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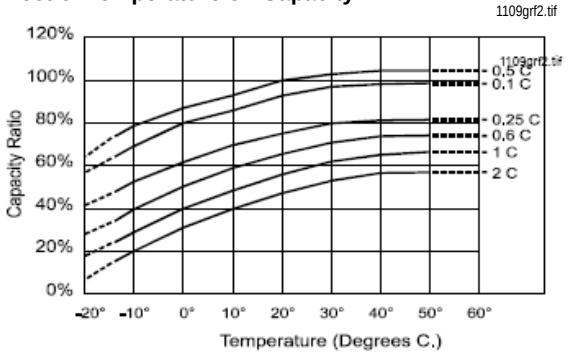

PS-695

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B&B BATTERY

Model	V	Nominal Capacity (AH)				Weight		Terminal				Dimensions							
								Standard		Optional		L		W		H		TH	
		20 hr	10 hr	5 hr	1 hr	kg	lbs	Type	Pos.	Type	Pos.	mm	in	mm	in	mm	in	mm	in
BP5-12	12	5.00	4.75	4.25	3.00	1.86	4.10	T1	3	T2		90	3.54	70	2.76	102	4.02	106	4.17
BP7-12	12	7.00	6.65	5.95	4.20	2.60	5.73	T2	5	T1		151	5.94	65	2.56	93	3.66	98	3.86
BP12-12	12	12.00	11.40	10.20	7.20	4.03	8.89	B1	5	T1		151	5.94	98	3.86	94	3.70	98	3.86
BP26-12	12	26.00	24.70	22.10	15.60	9.40	20.73	B1	7	T2,I1	9	175	6.89	166	6.54	125	4.92	125	4.92

6933bbb1.tbl

Charging Procedure

Application	Charging method	Charging voltage at 20°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Maximum charging current (CA)	Charging time 0.1 CA, 20°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power source	Constant voltage and constant current charging (with current restriction)	2.25 ~ 2.30	– 3	0.3	24	20	0 ~ 40°C (32~ 104°F)
For cycle service		2.40 ~ 2.50	– 4	0.3	16	10	
Temperature compensation of charging voltage is not needed when using the batteries within 5°C to 35°C range.							

6933bbch.tbl

At Left: Constant Power Discharge Characteristics at 25°C/77°F for BP5-12

Final Voltage	Discharge Time								
	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
	Battery Output Power (W)								
10.80 V	180.8	133.1	106.6	63.5	36.39	14.57	10.05	5.62	2.94
10.50 V	209.2	144.2	111.5	65.9	37.48	14.87	10.20	5.70	3.00
10.20 V	222.3	149.4	115.0	67.4	38.16	15.00	10.26	5.73	3.01
9.90 V	232.3	152.9	117.6	68.3	38.61	15.10	10.29	5.75	3.02
9.60 V	240.0	156.0	120.0	69.0	39.00	15.20	10.32	5.75	3.02

6933bb05.tbl

At Left: Constant Power Discharge Characteristics at 25°C/77°F for BP7-12

Final Voltage	Discharge Time								
	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
	Battery Output Power (W)								
10.80 V	253.1	186.3	149.3	88.8	50.95	20.40	14.07	7.86	4.11
10.50 V	292.9	201.8	156.2	92.2	52.47	20.81	14.28	7.98	4.20
10.20 V	311.2	209.1	161.0	94.3	53.42	21.00	14.36	8.02	4.22
9.90 V	325.2	214.1	164.7	95.6	54.06	21.15	14.41	8.04	4.23
9.60 V	336.0	218.4	168.0	96.6	54.60	21.27	14.45	8.04	4.23

6933bb07.tbl

At Left: Constant Power Discharge Characteristics at 25°C/77°F for BP12-12

Final Voltage	Discharge Time								
	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
	Battery Output Power (W)								
10.80 V	433.9	319.4	256.0	152.3	87.34	34.98	24.12	13.48	7.05
10.50 V	502.2	346.0	267.7	158.1	89.96	35.68	24.48	13.68	7.20
10.20 V	533.6	358.5	276.0	161.7	91.57	36.00	24.61	13.75	7.23
9.90 V	557.5	367.1	282.4	164.0	92.67	36.25	24.70	13.79	7.25
9.60 V	576.0	374.4	288.0	165.6	93.60	36.47	24.77	13.79	7.25

6933bb12.tbl

At Left: Constant Power Discharge Characteristics at 25°C/77°F for BP26-12

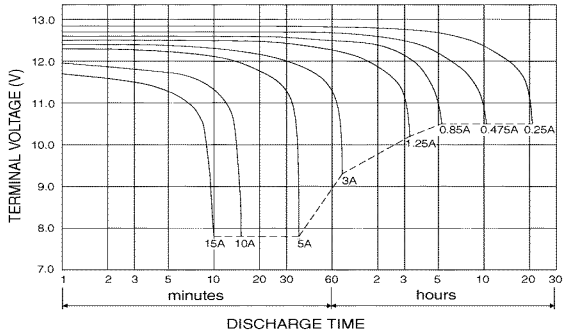
Final Voltage	Discharge Time								
	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
	Battery Output Power (W)								
10.80 V	940.0	692.0	554.6	330.0	189.23	75.79	52.25	29.20	15.26
10.50 V	1088.0	749.7	580.0	342.5	194.91	77.30	53.04	29.64	15.60
10.20 V	1156.0	776.7	598.0	350.3	198.41	78.00	53.33	29.79	15.67
9.90 V	1208.0	795.3	611.8	355.2	200.79	78.54	53.52	29.88	15.71
9.60 V	1248.0	811.2	624.0	358.8	202.80	79.01	53.68	29.88	15.71

6933bb26.tbl

B&B Battery

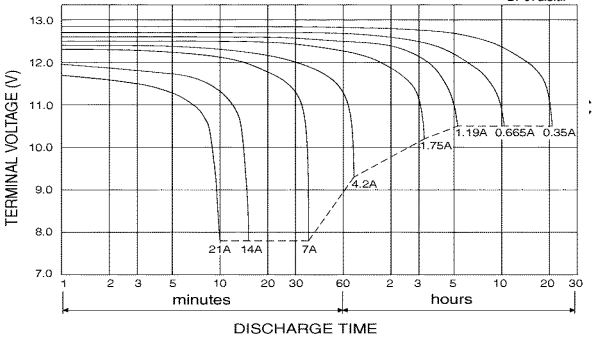
BP5-12 Battery Discharge Characteristics (25°C/77°F)

BP05dis.tif



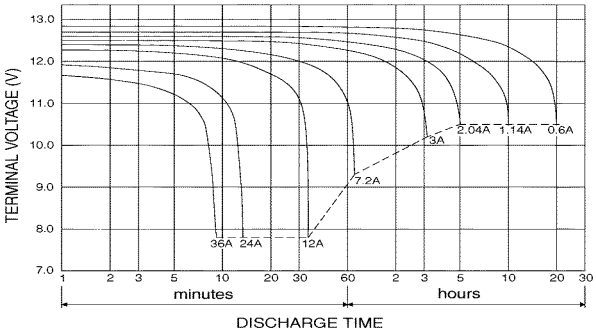
BP7-12 Battery Discharge Characteristics (25°C/77°F)

BP07dis.tif



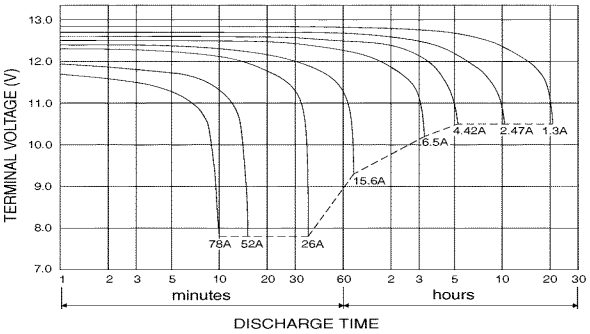
BP12-12 Battery Discharge Characteristics (25°C/77°F)

BP12dis.tif



BP26-12 Battery Discharge Characteristics (25°C/77°F)

BP26dis.tif



BP5-12

6933bp05.jpg

BP26-12

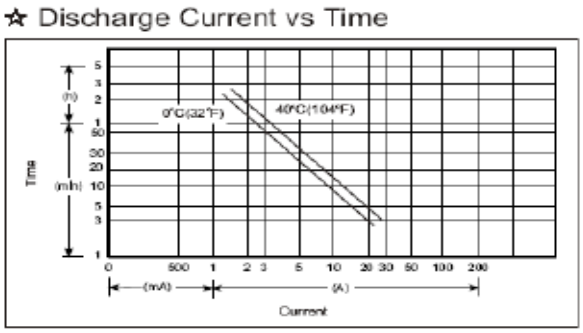
6933bp26.jpg

BP12-12

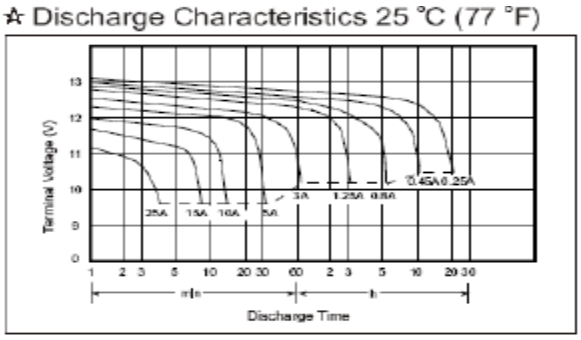
6933bp12.jpg

UPG BATTERY
UB1250

UB1250 Discharge Current vs Time



UB1250 Discharge Characteristics (25°C/77°F)

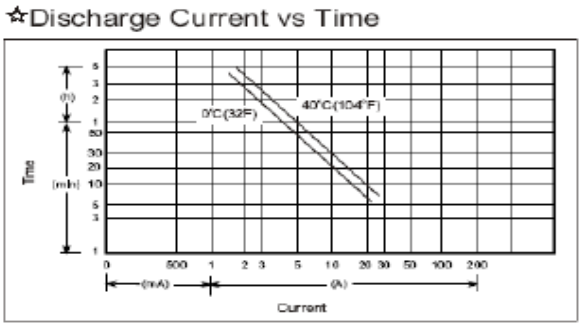


UB1250 SPECIFICATIONS

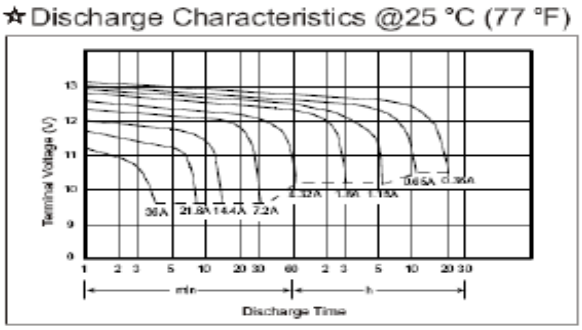
- Nominal voltage: 12 V.
- Nominal capacity (20 hr): 5.0 AH.
- **Dimensions:** Total height: 107 mm (4.21 in);
  Container height: 101 mm (3.98 in);
  Length: 90 mm (3.54 in); width: 70 mm (2.76 in).
- Weight: approximately 1.83 kg (4.03 lbs).
- Container material: UL94HB ABS, UL94V-0 ABS.
- Internal resistance: (25°C, 77°F): ~ 32 m.
- Discharge capacity under different temperatures:
  40°C: ~ 102%
  25°C: ~ 100%
  0°C: ~ 85%
- Capacity 25°C/77°F:
  20 hr @ 0.25 A: 5.0 AH.
  5 hr @ 0.8 A: 4.0 AH.
  1 hr @ 3.0 A: 3.0 AH.
  1 C @ 5.0 A: 2.5 AH.
- Charging voltage (25°C, 77°F):
  Standby use: 13.65 V ± 0.15 V.
  Cycle use: 14.7 V ± 0.3 V.
- Maximum discharge current: 60 A (5 sec).
- Maximum charging current: 1.5 A.
- Self-discharge residual capacity: (25°C, 77°F):
  After 3 months: ~ 90%.
  After 6 months: ~ 82%.
  After 12 months: ~ 70%.

UB1270

UB1270 Discharge Current vs Time



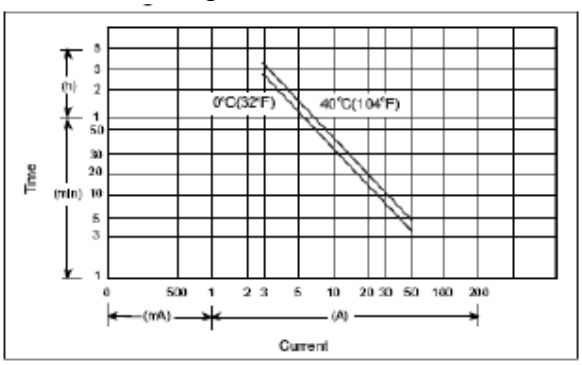
UB1270 Discharge Characteristics (25°C/77°F)



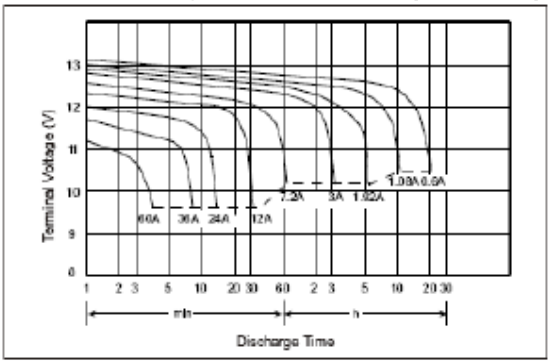
UB1270 SPECIFICATIONS

- Nominal voltage: 12 V.
- Nominal capacity (20 hr): 7.2 AH.
- **Dimensions:** Total height:100 mm (3.94 in);
  Container height: 94 mm (3.70 in);
  Length; 151 mm (5.95 in); width 65 mm (2.56 in).
- Weight: approximately 2.66 kg (5.85 lbs).
- Container material: UL94HB ABS, UL94V-0 ABS.
- Internal resistance (25°C, 77°F): ~ 22 m.
- Discharge capacity under different temperatures:
  40°C: ~ 102%
  25°C: ~ 100%
  0°C: ~ 85%
- Capacity 25°C/77°F:
  20 hr @ 0.36 A: 7.2 AH.
  5 hr @ 1.15 A: 5.76 AH.
  1 hr @ 4.32 A: 4.32 AH.
  1 C @ 7.2 A: 3.6 AH.
- Charging voltage (25°C, 77°F):
  Standby use: 13.65 V ± 0.15 V.
  Cycle use: 14.7 V ± 0.3 V.
- Maximum discharge current: 90 A (5 sec).
- Maximum charging current: 2.16 A.
- Self-discharge residual capacity (25°C, 77°F):
  After 3 months: ~ 90%.
  After 6 months: ~ 82%.
  After 12 months: ~ 70%.

UPG Battery
UB12120
UB12120 Discharge Current vs Time



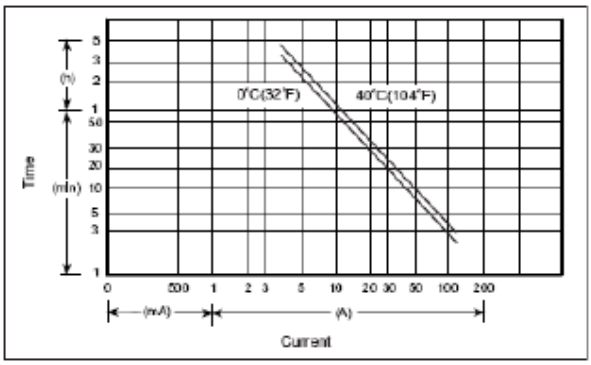
UB12120 Discharge Characteristics (25°C/77°F)



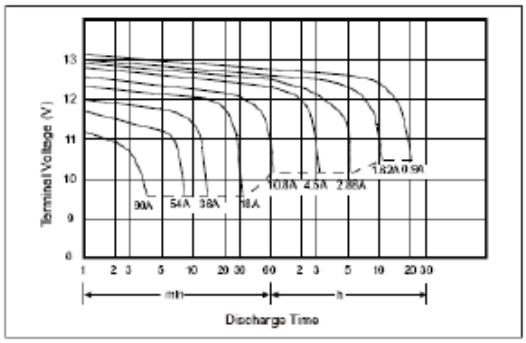
UB12120 SPECIFICATIONS

- Nominal voltage: 12 V.
- Nominal capacity (20 hr): 12.0 AH.
- **Dimensions:** Total height: 100 mm (3.94 in);
  Container height: 94 mm (3.70 in);
  Length: 151 mm (5.95 in); width 98 mm (3.86 in).
- Weight: approximately 4.10 kg (9.04 lbs).
- Container material: UL94HB ABS, UL94V-0 ABS.
- Internal resistance: (25°C, 77°F): ~ 14 m.
- Discharge capacity under different temperatures:
  40°C: ~ 102%
  25°C: ~ 100%
  0°C: ~ 85%
- Capacity 25°C/77°F:
  20 hr @ 0.6 A: 12.0 AH.
  5 hr @ 1.92 A: 9.6 AH.
  1 hr @ 7.2 A: 7.2 AH.
  1 C @ 12.0 A: 6.0 AH.
- Charging voltage: (25°C, 77°F):
  Standby use: 13.65 V ± 0.15 V.
  Cycle use: 14.7 V ± 0.3 V.
- Maximum discharge current: 120 A (5 sec).
- Maximum charging current: 3.6 A.
- Self-discharge residual capacity: (25°C, 77°F):
  After 3 months: ~ 90%.
  After 6 months: ~ 82%.
  After 12 months: ~ 70%.

UB12180
UB12180 Discharge Current vs Time



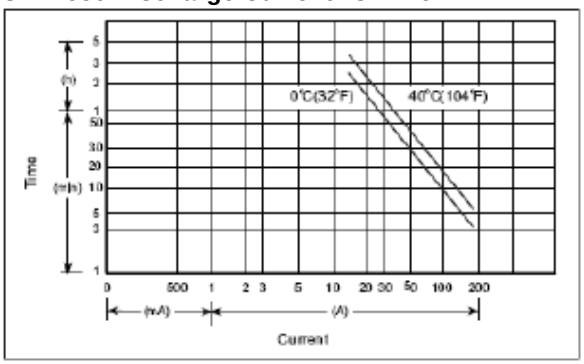
UB12180 Discharge Characteristics (25°C/77°F)



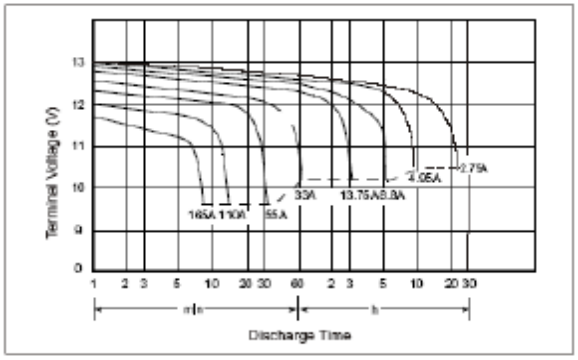
UB12180 SPECIFICATIONS

- Nominal voltage: 12 V.
- Nominal capacity (20 hr): 18.0 AH.
- **Dimensions:** total height: 167 mm (6.58 in);
  Container height: 167 mm (6.58 in);
  Length: 181 mm (7.13 in); width 76 mm (2.29 in).
- Weight: approximately 6.06 kg (13.36 lbs).
- Container material: UL94HB ABS, UL94V-0 ABS.
- Internal resistance (25°C, 77°F): ~ 13 m.
- Discharge capacity under different temperatures:
  40°C: ~ 102%
  25°C: ~ 100%
  0°C: ~ 85%
- Capacity 25°C/77°F:
  20 hr @ 0.9 A: 18.0 AH.
  5 hr @ 2.88 A: 14.4 AH.
  1 hr @ 10.8 A: 10.8 AH.
  1 C @ 18.0 A: 9.0 AH.
- Charging voltage (25°C, 77°F):
  Standby use: 13.65 V ± 0.15 V.
  Cycle use: 14.7 V ± 0.3 V.
- Maximum discharge current: 300 A (5 sec).
- Maximum charging current: 5.4 A.
- Self-discharge residual capacity (25°C, 77°F):
  After 12 months: ~ 70%.
  After 6 months: ~ 82%.
  After 12 months: ~ 70%.

UPG BATTERY
UB12550
UB12550 Discharge Current vs Time



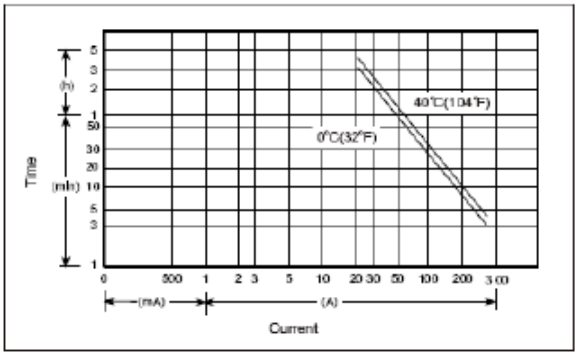
UB12550 Discharge Characteristics (25°C/77°F)



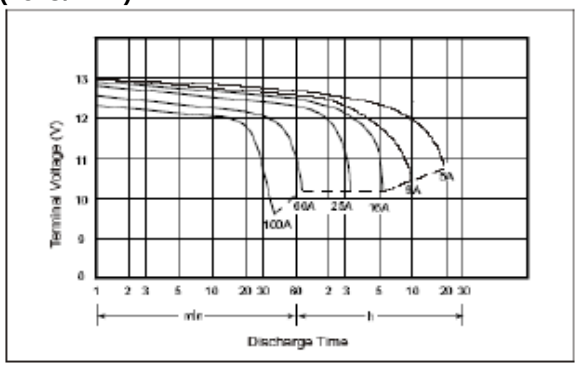
UB12550 SPECIFICATIONS

- Nominal voltage: 12 V.
- Nominal capacity (20 hr.): 55.0 AH.
- **Dimensions:** Total height: 234.5 mm (9.23 in); Container height: 216.5 mm (8.52 in); Length: 229 mm (9.02 in); width 138 mm (5.43 in).
- Weight: approximately 19.0 kg (41.8 lbs).
- Container material: UL94HB ABS, UL94V-0 ABS.
- Internal resistance: (25°C, 77°F): ~ 8 m.
- Discharge capacity under different temperatures:
  40°C: ~ 102%
  25°C: ~ 100%
  0°C: ~ 85%
- Capacity 25°C/77°F:
  20 hr. @ 2.75 A: 55.0 AH.
  5 hr. @ 8.8 A: 44.0 AH.
  1 hr. @ 33.0 A: 33.0 AH.
  1 C @ 55.0 A: 27.5 AH.
- Charging voltage: (25°C, 77°F):
  Standby use: 13.65 V ± 0.15 V.
  Cycle use: 14.7 V ± 0.3 V.
- Maximum discharge current: 600 A (5 sec.).
- Maximum charging current: 16.5 A.
- Self-discharge residual capacity: (25°C, 77°F):
  After 3 months: ~ 90%.
  After 6 months: ~ 82%.
  After 12 months: ~ 70%.

UPG BATTERY
UB30H/GEL Discharge Current vs Time



UB30H/GEL Discharge Characteristics (25°C/77°F)



UB30H/GEL SPECIFICATIONS

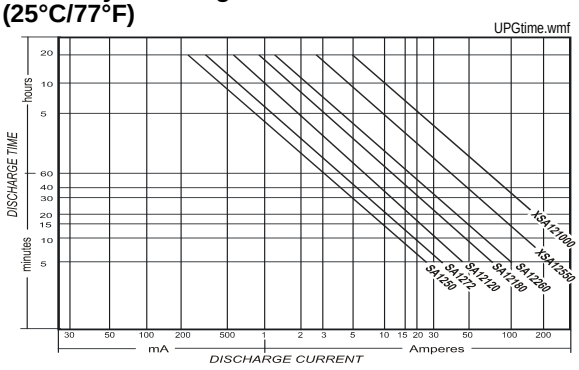
- Nominal voltage: 12 V.
- Nominal capacity (20 hr.): 100.0 AH.
- Dimensions: Total height: 221 mm (8.70 in); Container height: 214 mm (8.43 in); Length: 329 mm (12.95 in); width: 172 mm (6.77 in).
- Weight: approximately 34.00 kg (74.8 lbs).
- Container material: UL94HB ABS, UL94V-0 ABS.
- Internal resistance (25°C, 77°F): ~ 6.5 m.
- Discharge capacity under different temperatures:
  40°C: ~ 102%
  25°C: ~ 100%
  0°C: ~ 85%
- Capacity 25°C/77°F:
  20 hr. @ 5.0 A: 100.0 AH.
  5 hr. @ 16.0 A: 80.0 AH.
  1 hr. @ 60.0 A: 60.0 AH.
  1 C @ 100.0 A: 50.0 AH.
- Charging voltage (25°C, 77°F):
- Standby use: 13.65 V ± 0.15 V.
- Cycle use: 14.7 V ± 0.3 V.
- Maximum discharge current: 600 A (5 sec.).
- Maximum charging current: 30 A.
- Self-discharge residual capacity (25°C, 77°F):
  After 3 months: ~ 90%.
  After 6 months: ~ 82%.
  After 12 months: ~ 70%.

Charging Procedure: UPG Battery

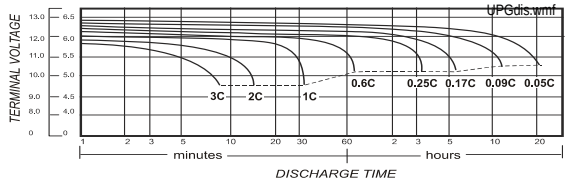
6933joch.tbl

Application	Charging method	Charging voltage at 25°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Maximum charging current (CA)	Charging time 0.1 CA, 25°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power source	Constant voltage and constant current charging (with current restriction)	2.25 – 2.30	– 3.3 (–1.8 mV/°F/cell)	0.3	T ³ 24	T ³ 20	0 – 40°C (32 – 104°F)
For cycle service		2.40 – 2.50	– 5 (–2.8 mV/°F/cell)	0.3	16 < T < 24	10 < T < 24	
Temperature compensation of charging voltage is not needed when using the batteries within 5°C to 35°C range.							

Summary Discharge Current vs. Time Curve (25°C/77°F)



Summary Discharge Characteristics



6933jp55.wmf

CHG-75
Battery Charger

FIRE•LITE ALARMS by Honeywell

Power Supplies/Accessories

General

The CHG-75 battery charger is designed to charge leadacid batteries that provide emergency standby power for a Fire Alarm Control Panel (FACP) and related equipment. Two 12-volt batteries are used in series to supply a nominal 24 VDC. The battery charger is compatible with any FACP that uses lead-acid batteries with a rating of 25 AH (amp-hours) to 75 AH. The FACP must have a feature that allows the disabling of the control panel battery charger.

Features

- 120 VAC or 220/240 VAC operation.
- Rated for batteries 25 to 75 AH.
- Charger can connect to the Signaling Line Circuit (SLC) of a Fire•Lite addressable intelligent control panel for trouble monitoring.
- Mounts in a BB-26 or BB-55F enclosure.
- Screw terminal connections for battery, battery backup to other equipment and SLC loop.
- 6.25 A fuse (F1) for AC overload protection.
- 15.0 A replaceable fuse (F2) provides battery with current-limiting, short circuit, and overload protection.
- 15.0 A replaceable fuse (F3) provides battery with current-limiting and overload protection for output to connected equipment.
- Form-C trouble relay rated for 2.0 A @ 30 VDC (resistive).
- Ground fault detection circuit (can be disabled).
- Battery, charger, and AC voltage supervision.
- AC loss reporting delay option for 8- or 16-hour delay.
- Connectors for trouble input and output — direct CHG-75 troubles to FACP and allow daisy-chaining of external troubles through the charger without affecting charger operation.
- Master trouble input allows monitoring of another device or zone.
- Diagnostic LEDs for monitoring: Primary AC On, Charger.
- Trouble, Ground Fault, Charging, SLC Communication,
- Low Battery.

Construction and Operation

The CHG-75 consists of a PC board and mounting chassis. See Installation section for compatible backboxes.

Charging current is provided automatically when the battery voltage falls below the charger's output voltage. While charging the batteries, the CHGING (charging) LED will turn on. When batteries are fully charged, the charger maintains a float charge of 27.6 VDC. The SLC LED and AC LED are the only other LEDs that should be on during normal operation if SLC communication is programmed at the FACP and the SLC enable switch is On.

CHG-75cov.tif

Applications

Use the CHG-75 with Fire•Lite FACPs when batteries required for standby are rated equal to or greater than 25 AH.

CAUTION: When installing the batteries, make certain that proper polarity is observed between the power leads and the battery terminal posts. *See installation manual for complete instructions and additional precautions.*

Electrical Specifications

- **Primary AC power in (TB1):** 120 VAC, 60 Hz, 2.0 A; or 220/240 VAC, 50 Hz, 1.0 A. Wire size: minimum 14 AWG (2.0 mm²) with 600-volt insulation.
- **Form-C relay (TB4):** 2.0 A at 30 VDC (resistive).
- **Float charge voltage:** 27.6 VDC.
- **Maximum charging current:** 4.5 A (peak).
- **Battery sizes:** 25 AH to 75 AH.

Installation

The CHG-75 can be mounted remotely in the BB-26 or BB-55F battery backbox. Install the CHG-75 within 20 feet (6.096 m) of the main FACP.

When mounting remotely in the BB-55F: The CHG-75 mounts to the right of the mounting holes positioned at the top of the cabinet. Use the supplied self-tapping screws to secure the charger to the backbox.

When mounting remotely in the BB-26: The CHG-75 mounts just below mounting holes positioned at the top center of the cabinet. Use the supplied nuts to mount the charger to pem studs located in the backbox.

Product Line Information

CHG-75: Battery charger circuit board and mounting chassis. Includes mounting hardware and installation instructions.

BAT-12260: 26 AH, 12-volt, sealed lead-acid battery.

BB-26: Battery backbox holds up to two BAT-12260 26 AH batteries. Box dimensions: 15.6" (39.62 cm) wide x 15.5" (39.37

cm) high x 5.125" (13.02 cm) deep. Door dimensions: same dimensions as backbox.

BB-55F: Battery backbox holds up to two BAT-12550 55 AH batteries. Box dimensions: 24.0" (61.0 cm) wide x 14.0" (35.6 cm) high x 7.75" (19.7 cm) deep. Door dimensions: 24.125" (61.3 cm) wide x 14.25" (36.2 cm) high x (door adds 0.063" [approx. 0.16 cm] to depth).

BB-55FR: Same as **BB-55F** above but painted red.

Compliance with Codes and Standards

The CHG-75 complies with the following standards:

- NFPA 72 National Fire Alarm Code.
- UL 864 Standard for Control Units for Fire Alarm Systems.
- UL 1481 Power Supplies for Fire Alarm Systems.

Agency Listings and Approvals

The listings and approvals below apply to the basic CHG-75. 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:** S1287.
- **CSFM:** 7315-0075:0201.
- **MEA:** 297-01-E.

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

Honeywell | Analog and Networking Systems

Gamewell FCI

E3 Series® Cabinets

Cabinets used for the E3 Series

General

The E3 Series® Expandable Emergency Evacuation System by Gamewell-FCI offers several cabinet size options. The E3 Series System is a modular design that allows a wide range of configurations to form an integrated, distributed fire alarm system. These cabinet options allow for sturdy and modern installations. The E3 Series cabinet assembly is a compact, wall-mounted enclosure. A typical cabinet includes a backbox and an outer locking door. In addition, there are several inner door options and mounting plates to accommodate a variety of E3 Series sub-assemblies.

Each cabinet backbox includes mounting patterns for plates to allow the installer to arrange and secure the sub-assemblies to the backbox. The backbox knockouts are also positioned at numerous points to allow a conduit access into the enclosure.

The following four Annunciator cabinet sizes provide the maximum flexibility that can meet any application.

- Cabinet AA offers 2-slot or 3-slot options to accommodate any of the following configurations:
  - Inner door, 2-slots allows space for one LCD-E3 or LCD-SLP and one ASM-16
  - Inner door, 3-slots allows space for any combination of three modules: ASM-16, NGA or an ANU-48
- Cabinet A1 houses one NGA or one ASM-16/ANU-48.
- Cabinet A2 accommodates a single LCD-E3.
- E3BB-FLUSH-LCD or E3BB-NGA-FLUSH.

The E3BB-R-BSlim or B-Slim contains the 600 Series cabinet. Cabinet B includes a mounting plate that contains a space for the following modules:

- ILI-MB-E3/ILI95-MB-E3
- PM-9/PM-9G sub-assemblies
- Batteries set inside the backbox

Additional sub-assembly options mounted on the backbox include the DACT-E3 and RPT-E3. The 2-slot inner door houses the following options:

- one LCD-E3 module and• either one ASM-16/ANU-48 or one NGA module

E3 Series® Cabinets

FEATURES & BENEFITS

- IBC Seismic Certified
- 16-gauge steel backbox
- Contains removable outer and inner doors
- Lexan® windows appear on the doors of most cabinets, except the Cabinet “C” and “D” INX cabinets and the INX CAB-B cabinet which contain louvered doors
- Built with an inner door bonding strap used to provide electrical continuity for grounding
- Cabinets are available in either black or red
- Backbox and door ground studs provide positive grounding, and 180° opening door with full clearance
- Offers 90° opening door with zero clearance
- Includes a keylock with quarter turn latch
- Trim Ring accessories available

General

Both the C and D-size Command Center cabinets house a variety of E3 Series Broadband sub-assemblies that can be used in multiple configurations that provide a solution to a wide range of applications. Two flexible inner door panel selections are available for C and D-size Command Center cabinets that may contain any of the following:

- fire fighter's phone handset
- microphone
- optional modules to meet the facility operation requirements

Refer to the Inner Door and Backbox Mounting Capacities in the Ordering Information Section.

Ordering Information

Inner Door Mounting Capacity

Part Number	Description
Cabinet "AA" Size	
Dimensions:	19 1/4" W x 10" H x 4 1/2" D (49 W x 25 H x 11.4 D cm)
E3BB-BAA	Enclosure, Black, "AA" (LOC) Size
E3BB-RAA	Enclosure, Red, "AA" (LOC) Size
E31D2-TA	Inner Door, 2-slots (INCC-TEL & ASM-16)
E3ID2-A	Inner Door, 2-slots (LCD-E3 or LCD-SLP & ASM-16)
E3ID3-A	Inner Door, 3-slots (NGA, ASM-16 and MIC)
Cabinet "AA1" Size:	
Dimensions:	8 3/4" W x 10" H x 4 1/2" D (22 W x 25 H x 11.4 D cm)
E3BB-BAA1	Remote Enclosure, Black, w/Inner Door, 1 slot, (NGA)
E3BB-RAA1	Remote Enclosure, Red, w/Inner Door, 1-slot, (NGA)
Cabinet "A2" Size:	
Dimensions:	13 1/4" W x 10" H x 4 1/2" D (40 W x 25 H x 11.4 D cm)
E3BB-BA2	Remote Enclosure, Black, w/Inner Door, 1-slot, (LCD-E3 or LCD-SLP)
E3BB-RA2	Remote Enclosure, Red, w/Inner Door, 1-slot, (LCD-E3 or LCD-SLP)
Flush Cabinet A2 Annunciators:	
Dimensions:	13 1/4" W x 10" H x 4 1/2" D (40 W x 25 H x 11.4 D cm)
E3BB-FLUSH-LCD	CAB A2 Remote Flush LCD ANN with Key switch operation
E3BB-NGA-FLUSH	CAB A2 Remote Flush NGA ANN with Password protected
Cabinet "B-Slim" Size: (Retrofit Kits)	
Dimensions:	14" W x 20" H x 4 1/2: D (35.5 W x 50.8 H x 11 D cm)
E3BB-RBSLIM	Assy, Enclosure, B-SLIM, Red with Backplate and LCD-E3 Keyswitch plate
IF600-RETROFIT	Door and Cab mounting plates, disable key switch and door lock (PK-625) for E3 Series upgrade.
Cabinet "B" Size:	
Dimensions:	19 3/8"W x 19 3/8"H x 4 1/2"D (49 W x 49 H x 11 D cm)
E3BB-BB	Assy, Backbox Enclosure, Black,"B" Size
E3BB-RB	Assy, Backbox Enclosure, Red, "B" Size
E3ID2-B	Inner Door, 2-slots, "B" Size
1100-0458	B Size INCC Command Center enclosure, black
1100-0459	B Size INCC Command Center enclosure, red door
1100-0460	INX-Transponder 19" (cm) Backbox with Door, Black

Ordering Information (Continued)

Part Number	Description
Cabinet "B" Size (Continued)	
Dimensions:	19 3/8"W x 19 3/8"Hx4 1/2"D (49 W x 49 H x 11.43 D cm)
Cabinet "C" Size:	
Dimensions:	19 3/8" W x 30" H x 4 1/2" D (49 W x 76 H x 11 D cm)
E3BB-BC/INCC	Enclosure, Command Ctr, Black, "C" Size
E3BB-RC/INCC	Enclosure, Command Ctr, Red, "C" Size
E3ID2-C	Assy, Inner Door, Command Ctr.2- Bay "C" Size
E3ID3-C	Assy, Inner Door, Command Ctr, 3-Bay "C" Size
E3BB-BC/INX	Assy, Transponder, Black, "C" Size
E3BB-RC/INX	Assy, Transponder, Red, "C" Size
E3-INCC-CPLATE	Command Center module mounting plate, "C" Size
E3-INX-CPLATE	Transponder mounting plate, "C" Size
Inner Door Mounting Capacity	
E3-ILI-CPLATE	Intelligent loop module mounting plate "C" Size
Cabinet "D" Size:	
Dimensions:	19 3/8" W x 41" H x 4 1/2" D (49 W x 104 H x 11 D cm)
E3BB-BD/INCC	Enclosure, Command Ctr, Black, "D" Size
E3BB-RD/INCC	Enclosure, Command Center, Red, "D" Size
E3ID2-D	Assy, Inner Door, 2-Bay, "D" Size
E3ID3-D	Assy, Inner Door, 3-Bay, "D" Size
E3BB-BD/INX	Enclosure, Transponder, Black "D" Size
E3BB-RD/INX	Enclosure, Transponder, Red, "D" Size
E3-INCC-D-PLATE	Command Center module mounting plate, "D" Size
E3-INX-D-PLATE	Transponder module mounting plate, "D" Size
Optional Extender Plates	
AM-50 Plate	AM-50 Extender Plate
FPT-GATE-3-EXT	FPT-GATE-3 Extender Plate
Optional Accessories	
1100-0450	Command Center, blank plate, single size
E3-BP	Inner door panel, blank, double size
90375	PM-9/PM-9G Adapter Plate Kit,Hardware
E3-TRIMKIT-A	Trim kit for "A"/"AA" size enclosure, black
E3-TRIMKIT-A1	Trim kit for "AA1" size enclosure, black
E3-TRIMKIT-A2	Trim kit for "A2" size enclosure, black
E3-TRIMKIT-B	Trim kit for "B" size enclosure, black
E3-TRIMKIT-C	Trim kit for "C" size enclosure, black
E3-TRIMKIT-D	Trim kit for "D" size enclosure, black
Bulk Amplification	
AA-100	100 W Audio Amp.@70.7 V_{RMS} w/120 VAC
AA-120	120 W Audio Amp. @25 V_{RMS} w/ 120 VAC
ACT-1	Audio coupling transformer, for audio systems w/multiple supplies
FCI-CHG-120	Battery Charger, 25-120 A/H Gel cell
FCI-LBB	Battery box, accommodates batteries up to 55 A/H, (Black)
Cabinet C:	
FCI-DR-C4B	Large Battery Backbox,blank door,lock and keys for backbox accepting 3 chassis, (Black)
FCI-DR-C4BR	Blank door, lock and keys, for backbox accepting 3 chassis, (Red)
SBB-C4	Backbox, 3 chassis, (Black)
Cabinet D:	
FCI-DR-D4B	Blank door, lock and keys, for backbox accepting 4 chassis, (Black)
FCI-DR-D4BR	Blank door, lock and keys, for backbox accepting 4 chassis, (Red)
SBB-D4	Backbox, 4 chassis, (Black)
90516	7100-Slim 7A/H Seismic Battery Bracket Kit

Seismic Battery Bracket Kits

Part Number	Description
	E3 B-Slim 7 A/H Seismic Battery Bracket Kit
90517	7100-Slim 12 A/H Seismic Battery Bracket Kit
	E3 B-Slim 12 A/H Seismic Battery Bracket Kit
90518	E3 CAB-B 7 A/H Seismic Battery Bracket Kit

Ordering Information (Continued)

Seismic Battery Bracket Kits (Continued)

Part Number	Description
	E3 CAB-C 7 A/H Seismic Battery Bracket Kit
	E3 CAB-D 7 A/H Seismic Battery Bracket Kit
	NetSOLONS-INX-7A/H Seismic Battery Bracket Kit
	NetSOLO-7100-7A/H Seismic Battery Brckt Kit
90519	E3 CAB-C (INX only) 12 A/H Seismic Battery Bracket Kit
	E3 CAB-D (INX only) 12 A/H Seismic Battery Bracket Kit
	NetSOLO NS-INX 12 A/H Seismic Battery Bracket Kit
90520	E3 CAB-B 18 A/H Seismic Battery Bracket Kit
	E3 CAB-C 18 A/H Seismic Battery Bracket Kit
	E3 CAB-D 18 A/H Seismic Battery Bracket Kit

Retrofit Kits

For information on the Gamewell and 7200 Retrofit Kits, refer to the following Data Sheets.

9021-60678	Gamewell Retrofit Kits Data Sheet
9021-60733	7200 Retrofit Kits Data Sheet

Inner Door Mounting Capacity

Part Number	Components
Cabinet AA	
E3ID2-A	Cabinet AA, Inner Door, 2-slots
1	LCD-E3 Display and
1	ASM-16/ANU-48
E3ID2-TA	Assembly, Door, Inner, TEL-E3
E3ID3-A,	Cabinet A, Inner Door, 3-slots
1	NGA or ASM-16
2	ASM-16s/ANU-48
Cabinet AA1	
E3ID-A1	Cabinet AA1,Inner Door (Includes Box)
1	NGA or ASM-16
Cabinet A2	
E3ID-A2	Cabinet A2, Inner Door, (Includes Box)
1	LCD-E3
Cabinet B	
E3ID2-B	Cabinet B, Inner Door, (Includes Box)
1	LCD-E3 Display and one ASM-16/ANU-48
1	NGA and one ASM-16/ANU-48
B-Slim Cabinet	
1	LCD-E3 Display & one RPT-E3 or one DACT-E3
1	ILI-MB-E3 or one ILI95-MB-E3
1	PM-9 or one PM-9G
Cabinet C	
E3ID2-C	Cabinet C, Inner Door, 2-slots
1	LCD-E3 Display and
5	Any combination of ASM-16/ANU-48, NGA or Microphone Assemblies
1	Telephone Assembly
E3ID3-C	Cabinet C, Inner Door, 3-slots
7	Any Combination of ASM-16/ANU-48, NGA, or Microphone Assemblies
1	Telephone Assembly
Cabinet D	
E3ID2-D	Cabinet D, Inner Door, 2-slots
1	LCD-E3 Display
11	Any Combination of ASM-16/ANU-48, or NGA or Microphone and
1	Telephone Assembly
E3ID3-D	Cabinet D, Inner Door, 3-slots
13	Any Combination of ASM-16/ANU-48, NGA or Microphone Assemblies
1	Telephone Assembly
1	Loop Interface or ANX or
1	DACT-E3 Digital Communicator and
1	RPT-E3 Network Repeater

Backbox Mounting Capacity

E3BB-BAA	Enclosure 'AA' (LOC) Size Black
1	INI-VG Series Voice Gateway
E3BB-BAA1	AA1 Size Box/Door, Black
1	RPT-E3 Network Repeater
E3BB-BB	B-Size Box/Door, Black
1	PM-9/PM-9G Power Supply
1	ILI-MB-E3/ILI95-MB-E3 and

Backbox Mounting Capacity (Continued)

Part Number	Components
E3BB-BB	B-Size Box/Door, Black
1	Additional ILI-MB-E3/ILI95-MB-E3
1	Loop Interface or ANX or
1	DACT-E3 Digital Communicator and
1	RPT-E3 Network Repeater
INX CAB-B Mounting Plate	
1	PM-9 or PM-9G
1	INI-VGX
4	AM-50 Series amplifiers
E3-INCC-C Plate	
1	PM-9/PM-9G Power Supply
1	INI-VG Series Voice Gateway
1	ILI-MB-E3/ILI95-MB-E3 Loop Interface and Additional ILI-MB-E3/ILI95-MB-E3/ANX Loop Interface or
1	DACT-E3 Digital Communicator and
1	RPT-E3 Network Repeater
1	Optional AM-50 or FPT-GATE-3 Extender Plate
E3-ILI-C Plate	
1	PM-9/PM-9G Power Supply
1	ILI-MB-E3 or ILI95-MB-E3
2	Additional ILI-MB-E3/ILI95-MB-E3 or ILI-S-E3/ILI95-S-E3 or ANX
1	DACT-E3
1	RPT-E3
1	Optional FPT-GATE-3 Extender Plate
E3-INX-C Plate	
1	PM-9/PM-9G Power Supply with one PM-9/PM-9G Adapter Plate
1	INI-VGX Voice Gateway
1	ILI-MB-E3 Loop Interface and
1	Additional ILI-MB-E3/LI95-MB-E3/ANX
1	DACT-E3 Digital Communicator and
1	RPT-E3 Network Repeater
4	AM-50 Series Amplifier
1	Optional FPT-GATE-3 Extender Plate
E3-INCC-D Plate	
1	PM-9/PM-9G Power Supply
1	ILI-MB-E3 or ILI95-MB-E3
4	Additional ILI-E3 or ILI95-E3 Series or ANX
1	DACT-E3 Digital Communicator
1	RPT-E3 Network Repeater
1	INI-VG Series
1	Optional AM-50 or FPT-GATE-3 Extender Plate
E3-INX-D Plate	
1	PM-9/PM-9G Power Supply
1	ILI-MB-E3 or ILI95-MB-E3
1	DACT-E3 Digital Communicator
1	RPT-E3 Network Repeater
1	INI-VG Series
4	AM-50 Series Amplifier
1	Optional FPT-GATE-3 Plate
E3BB-BD	D-size Box/Command Center (Voice), Black
1	PM-9/PM-9G Power Supply
1	INI-VG Series Voice Gateway
4	ILI-MB-E3/ILI95-MB-E3/ANX Loop Interface
1	Additional ILI-MB-E3/ILI95-MB-E3/ ANX Loop Interface or
1	DACT-E3 Digital Communicator and
1	RPT-E3 Network Repeater
1	Optional FPT-GATE-3 Plate
E3BB-BD	D-size Box/Command Center, Black
1	PM-9/PM-9G Power Supply
7	ILI-MB-E3/ILI95-MB-E3/ANX Loop Interface & Additional ILI-MB-E3/ILI95-MB-E3/ANX Loop Interface or
1	DACT-E3 Digital Communicator and
1	RPT-E3 Network Repeater
Optional Extender Plates	
AM-50 Extender Plate	
1	AM-50-25 or AM-50-70
FPT-GATE-3 Extender Plate	
1	FocalPoint® Gateway
1	PNET-1
1	Optional FPT-GATE-3 Extender Plate

E3 Series® Cabinets Technical Specifications

STANDARDS

The E3 Series fire alarm control panel cabinets are designed to comply with the following standards:

UL Standards: UL 864 9th Edition:

- Automatic Fire Detector Alarm
- Manual Fire Alarm
- Waterflow Alarm
- Supervisory
- Releasing Device Service
- Releasing/Pre-Action Deluge
- Releasing/Agent Releasing
- Automatic Smoke Alarm, Non-coded and Master Coded Operation

Underwriters Laboratories Standard UL 2572 (Mass Notification Systems).

UUKL for Smoke Control

UL2572 1st Edition

NFPA Standards

NFPA 13 - Standard for Installation of Sprinkler Systems

NFPA 16 - Standard for Foam-Water Sprinkler and Foam Water Spray Systems

NFPA 72 - National Fire Alarm Code:

- Central Station Fire Alarm Systems
- Auxiliary Fire Alarm Systems
- Proprietary Fire Alarm Systems
- Local Fire Alarm Systems
- Remote Station Fire Alarm Systems

NFPA 13 Sprinkler

NFPA 12A Halon 1301

NFPA 15 Water Spray

NFPA 16 Foam Water

NFPA 750 Water Mist

NFPA 2001 Clean Agent

NFPA 12 CO2 Carbon Dioxide

NFPA 17 Dry Chemical/17A Wet Chemical

Seismic Codes

International Building Codes:

- IBC 2013
- IBC 2009
- IBC 2006
- IBC 2003
- IBC 2000 (Seismic)

California Building Code CBC 2007 (Seismic)

STANDARDS

The E3 Series Cabinets are 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 Listed: S1869

MEA Approved: 6177

Fire Dept. of New York: COA# 6077

CSFM: 7165-1703-0125

FM Approved: 3025415

City of Chicago

City of Denver

VMA Seismic Certified

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 E3 Series® Cabinets and other products available by visiting www.Gamewell-FCI.com

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9020-0649 | W | 06/18

Honeywell

Gamewell FCI FIRE CONTROL INSTRUMENTS

by Honeywell

E3 Series® Cabinets

Description

The E3 Series® Expandable Emergency Evacuation System by Gamewell-FCI offers several cabinet size options. These cabinet options allow for neat, sturdy, attractive installations. The E3 Series cabinet assembly is a compact, wall-mounted enclosure. A typical cabinet includes a backbox and an outer locking door. In addition, there are several inner door choices and mounting plates to accommodate a variety of E3 sub-assemblies.

Each cabinet backbox includes mounting patterns for plates to aid the installer in arranging and securing the sub-assemblies to the backbox. Backbox knockouts are also positioned at numerous points to allow a conduit access into the enclosure.

Four (4) Annunciator Cabinet sizes provide maximum flexibility that can meet any application.

- Cabinet A or AA offers 2 slot and 3 slot options to accommodate either of the following configurations:
  - Cabinet A or AA, 2 slot allows space for one (1) LCD-E3 and one (1) NGA or one (1) ASM-16/ANU-48.
  - Cabinet A1 or AA, 3 slot provides space for either one NGA and two ASM-16s or three ASM-16s/ANU-48s.
- Cabinet A1 houses one NGA or one ASM-16/ANU-48.
- Cabinet A2 accommodates a single LCD-E3 display.

E3BB-RBSlim or B-Slim contains the 600 Series cabinet.

Cabinet B includes a mounting plate that contains a space for the ILI-MB-E3/ILI95-MB-E3, PM-9/PM-9G sub-assemblies and batteries set inside the backbox. Additional sub-assembly options mounted on the backbox include the DACT-E3 and RPT-E3. The 2 slot inner door houses the following options:

- one (1) LCD-E3 module and
- either one (1) ASM-16/ANU-48 or one (1) NGA module

Both C and D size Command Center cabinets house a variety of E3 Broadband sub-assemblies in multiple configurations that provide a solution to a wide range of applications.

Two (2), flexible inner door panel selections are available for C and D size Command Center cabinets that may contain a fire fighter's phone handset, a microphone, and optional modules to meet the facility operation requirements.
(*Note: See Inner Door and Backbox Mounting Capacities on page 3 and 4).

Cabinets for the E3 Series®

E3 Series® Cabinets

Features

- IBC Seismic Certified
- 16-gauge steel backbox
- Removable outer and inner doors
- Inner door bonding strap used to provide electrical continuity for grounding
- Backbox and door ground studs provide positive grounding. 180° opening door with full clearance
- Available in either black or red
- Lexan® windows appear on the doors of most cabinets, except the Cabinet "C" and "D" INX cabinets and the INX CAB-B cabinet which contain louvered doors
- 90° opening door with zero clearance
- Keylock with quarter turn latch
- Trim Ring accessories available

An ISO 9001-2000 Company

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 · THE VMC GROUP VMA-45894-01C

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

Ordering Information

Part Number	Description
Cabinet "A" & "AA" Size	
Dimensions:	19 1/4" W x 10" H x 3" D (49 W x 25 H x 7.6 D cm)
E3BB-BA	Enclosure, Black, "A" Size
E3BB-RA	Enclosure, Red, "A" Size
E3BB-BAA	Enclosure, Black, "AA" (LOC) Size
E3BB-RAA	Inner Door, AA Plate, Enclosure, Red, "AA" (LOC) Size
E31D2-TA	Inner Door, 2 Slots, "AA" Size (INCC-TEL & ASM-16)
E3ID2-A	Inner Door, 2 Slots, "A" Size (LCD-E3 & ASM-16)
E3ID3-A	Inner Door, 3 Slots, "A" Size (NGA, ASM-16 and MIC)
Cabinet "A1" & "A2" Size:	
Dimensions:	8 3/4" W x 10" H x 4 1/2" D (22.2 W x 25 H x 7.6 D cm)
E3BB-BA1	Assy, Backbox, Remote Enclosure, A1 Size, Black (include inner door)
E3BB-RA1	Remote Enclosure, A1 Size, Red (include inner door)
E3BB-BA2	Remote Enclosure, A2 Size, Black (include inner door)
E3BB-RA2	Remote Enclosure, A2 Size, Red (include inner door)
Flush Cabinet A1 Annunciators:	
E3BB-FLUSH-LCD	CAB A2 Remote Flush LCD ANN with Keyswitch operation
E3BB-FLUSH-NGA	CAB A2 Remote Flush NGA ANN with Password protected
Cabinet "B-Slim" Size: (Retrofit Kits)	
Dimensions:	14" W x 20" H x 4 1/2: D (35.5 W x 50.8 H x 11 D cm)
E3BB-RBSLIM	Assy, Enclosure, B-SLIM, Red with Backplate and LCD-E3 Keyswitch plate
IF600-RETROFIT	Door and Cab mounting plates, disable key switch and door lock (PK-625) for E3 Series upgrade
Cabinet "B" Size:	
Dimensions:	19 3/8" W x 19 3/8" H x 4 1/2" D (49 W x 49 H x 11 D cm)
E3BB-BB	Assy, Backbox Enclosure, Black,"B" Size
E3BB-RB	Assy, Backbox Enclosure, Red, "B" Size
E3ID2-B	Inner Door, 2 Slots, "B" Size
1100-0460	INX-Transponder 19" (cm) Backbox with Door, Black
Dimensions:	19 3/8" W x 19 3/8" H x 4 1/2" D (49 W x 49 H x 11.43 D cm)
Cabinet "C" Size:	
Dimensions:	19 3/8" W x 30" H x 4 1/2" D (49 W x 76 H x 11 D cm)
E3BB-BC/INCC	Enclosure, Command Center, Black, "C" Size
E3BB-RC/INCC	Enclosure, Command Center, Red, "C" Size
E3ID2-C	Assy, Inner Door, Command Center, 2- Bay "C" Size
E3ID3-C	Assy, Inner Door, Command Center, 3-Bay "C" Size
E3BB-BC/INX	Assy, Transponder, Black, "C" Size
E3BB-RC/INX	Assy, Transponder, Red, "C" Size

Ordering Information (Continued)

Part Number	Description
Cabinet "C" Size (Continued)	
E3-INCC-CPLATE	Command Center module mounting plate, "C" Size
E3-INX-CPLATE	Transponder module mounting plate, "C" Size
E3-ILI-CPLATE	Intelligent loop module mounting plate "C" Size
Cabinet "D" Size:	
Dimensions:	19 3/8" W x 41" H x 4 1/2" D (49 W x 104 H x 11 D cm)
E3BB-BD/INCC	Enclosure, Command Center, Black, "D" Size
E3BB-RD/INCC	Enclosure, Command Center, Red, "D" Size
E3ID2-D	Assy, Inner Door, 2-Bay, "D" Size
E3ID3-D	Assy, Inner Door, 3-Bay, "D" Size
E3BB-BD/INX	Enclosure, Transponder, Black "D" Size
E3BB-RD/INX	Enclosure, Transponder, Red, "D" Size
E3-INCC-D-PLATE	Command Center module mounting plate, "D" Size
E3-INX-D-PLATE	Transponder module mounting plate, "D" Size

Optional Extender Plates

AM-50 Plate	AM-50 Extender Plate
FPT-GATE-3-EXT	FPT-GATE-3 Extender Plate

Optional Accessories

1100-0450	Command Center,blank plate,single size
E3-BP	Inner door panel, blank, double size
90375	PM-9/PM-9G Adapter Plate Kit, Hardware
E3-TRIMKIT-A	Trim kit for "A"/"AA" size enclosure, black
E3-TRIMKIT-A1	Trim kit for "A1" size enclosure, black
E3-TRIMKIT-A2	Trim kit for "A2" size enclosure, black
E3-TRIMKIT-B	Trim kit for "B" size enclosure, black
E3-TRIMKIT-C	Trim kit for "C" size enclosure, black
E3-TRIMKIT-D	Trim kit for "D" size enclosure, black

Bulk Amplification

Part Number	Description
AA-100	100 W Audio Amplifier, @70.7 V_{RMS} with 120 VAC
AA-120	120 W Audio Amplifier, @25 V_{RMS} with 120 VAC
ACT-1	Audio coupling transformer, for audio systems w/multiple supplies
FCI-CHG-120	Battery Charger, 25-120 A/H Gel cell
FCI-LBB	Battery box, accommodates batteries up to 55 A/H, (Black)
Cabinet C:	
FCI-DR-C4B	Large Battery Backbox, Blank door, lock & keys, for backbox accepting 3 chassis, (Black)
FCI-DR-C4BR	Blank door, lock & keys, for backbox accepting 3 chassis, (Red)
SBB-C4	Backbox, 3 chassis, (Black)
Cabinet D:	
FCI-DR-D4B	Blank door, lock & keys, for backbox accepting 4 chassis, (Black)
FCI-DR-D4BR	Blank door, lock & keys, for backbox accepting 4 chassis, (Red)
SBB-D4	Backbox, 4 chassis, (Black)

Seismic Battery Bracket Kits

Part Number	Description
90516	7100-Slim 7 A/H Seismic Battery Bracket Kit
	E3 B-Slim 7 A/H Seismic Battery Bracket Kit
90517	7100-Slim 12 A/H Seismic Battery Bracket Kit
	E3 B-Slim 12 A/H Seismic Battery Bracket Kit
90518	E3 CAB-B 7 A/H Seismic Battery Bracket Kit
	E3 CAB-C 7 A/H Seismic Battery Bracket Kit
	E3 CAB-D 7 A/H Seismic Battery Bracket Kit
	NetSOLO NS-INX 7 A/H Seismic Battery Bracket Kit
	NetSOLO 7100 7 A/H Seismic Battery Bracket Kit
90519	E3 CAB-C (INX only) 12 A/H Seismic Battery Bracket Kit
	E3 CAB-D (INX only) 12 A/H Seismic Battery Bracket Kit
	NetSOLO NS-INX 12 A/H Seismic Battery Bracket Kit
90520	E3 CAB-B 18 A/H Seismic Battery Bracket Kit
	E3 CAB-C 18 A/H Seismic Battery Bracket Kit
	E3 CAB-D 18 A/H Seismic Battery Bracket Kit

Retrofit Kits

For information on the Gamewell and 7200 Retrofit Kits, refer to the following Data Sheets.

9021-60678 Gamewell Retrofit Kits Data Sheet
9021-60733 7200 Retrofit Kits Data Sheet

Specifications

Inner Door Mounting Capacity

Number Components

Cabinet A

E3ID2-A, Cabinet A, Inner Door, 2 Slots
- 1 LCD-E3 Display and
- 1 ASM-16/ANU-48

E3ID2-TA Assembly, Door, Inner, TEL-E3

E3ID3-A, Cabinet A, Inner Door, 3 Slots
- 1 NGA or ASM-16
- 2 ASM-16s/ANU-48s

Cabinet AA
- 1 Microphone

Cabinet A1

E3ID-A1 Cabinet A1, Inner Door, (Included with Box)
- 1 NGA or ASM-16

Cabinet A2

E3ID-A2 Cabinet A2, Inner Door, (Included with Box)
- 1 LCD-E3

Cabinet B

E3ID2-B, Cabinet B, Inner Door, (Included with Box)
- 1 LCD-E3 Display and one (1) ASM-16/ANU-48
- 1 NGA and one (1) ASM-16/ANU-48

B-Slim Cabinet
- 1 LCD-E3 Display and (1) RPT-E3 or (1) DACT-E3
- 1 ILI-MB-E3 or (1) ILI95-MB-E3
- 1 PM-9 or (1) PM-9G

Inner Door Mounting Capacity (Cont'd)

Number Components

Cabinet C

E3ID2-C, Cabinet C, Inner Door, 2 Slots
- 1 LCD-E3 Display and
- 5 Any combination of ASM-16/ANU-48, NGA or Microphone Assemblies
- 1 Telephone Assembly

E3ID3-C, Cabinet C, Inner Door, 3 Slots
- 7 Any Combination of ASM-16/ANU-48, NGA, or Microphone Assemblies
- 1 Telephone Assembly

Cabinet D

E3ID2-D, Cabinet D, Inner Door, 2 Slots
- 1 LCD-E3 Display
- 11 Any Combination of ASM-16/ANU-48, or NGA or Microphone and
- 1 Telephone Assembly

E3ID3-D, Cabinet D, Inner Door, 3 Slots
- 13 Any Combination of ASM-16/ANU-48, NGA or Microphone Assemblies
- 1 Telephone Assembly

Backbox Mounting Capacity

Number Components

E3BB-BAA, Enclosure, "AA' (LOC) Size, Black
- 1 INI-VG Series Voice Gateway

E3BB-BA, A1 Size Box/Door, Black
- 1 RPT-E3 Network Repeater

E3BB-BB, B Size Box/Door, Black
- 1 PM-9/PM-9G Power Supply
- 1 ILI-MB-E3/ILI95-MB-E3 and
- 1 Additional ILI-MB-E3/ILI95-MB-E3 Loop Interface or ANX or
- 1 DACT-E3 Digital Communicator and
- 1 RPT-E3 Network Repeater

INX CAB-B Mounting Plate
- 1 PM-9 or PM-9G
- 1 INI-VGX
- 4 AM-50 Series amplifiers

E3-INCC-C Plate
- 1 PM-9/PM-9G Power Supply
- 1 INI-VG Series Voice Gateway
- 1 ILI-MB-E3/ILI95-MB-E3 Loop Interface and
- 1 Additional ILI-MB-E3/ILI95-MB-E3/ANX Loop Interface or
- 1 DACT-E3 Digital Communicator and
- 1 RPT-E3 Network Repeater
- 1 Optional AM-50 or FPT-GATE-3 Extender Plate

Backbox Mounting Capacity

Number	Components
E3-ILI-C Plate	
1	PM-9/PM-9G Power Supply
1	ILI-MB-E3 or ILI95-MB-E3
2	Additional ILI-MB-E3/ILI95-MB-E3 or ILI-S-E3 /ILI95-S-E3 or ANX
1	DACT-E3
1	RPT-E3
1	Optional FPT-GATE-3 Extender Plate
E3-INX-C Plate	
1	PM-9/PM-9G Power Supply with one (1) PM-9/ PM-9G Adapter Plate
1	INI-VGX Voice Gateway
1	ILI-MB-E3 Loop Interface and
1	Additional ILI-MB-E3/LI95-MB-E3/ANX
1	DACT-E3 Digital Communicator and
1	RPT-E3 Network Repeater
4	AM-50 Series Amplifier
1	Optional FPT-GATE-3 Extender Plate
E3-INCC-D Plate	
1	PM-9/PM-9G Power Supply
1	ILI-MB-E3 or ILI95-MB-E3
4	Additional ILI-E3 Series or ILI95-E3 Series or ANX
1	DACT-E3 Digital Communicator
1	RPT-E3 Network Repeater
1	INI-VG Series
1	Optional AM-50 or FPT-GATE-3 Extender Plate
E3-INX-D Plate	
1	PM-9/PM-9G Power Supply
1	ILI-MB-E3 or ILI95-MB-E3
1	DACT-E3 Digital Communicator
1	RPT-E3 Network Repeater
1	INI-VG Series
4	AM-50 Series Amplifier
1	Optional FPT-GATE-3 Plate

Backbox Mounting Capacity

Number	Components
E3BB-BD, D Size Box/Command Center (Voice), Black	
1	PM-9/PM-9G Power Supply
1	INI-VG Series Voice Gateway
4	ILI-MB-E3/ILI95-MB-E3/ANX Loop Interface and
1	Additional ILI-MB-E3/ILI95-MB-E3/ANX Loop Interface or
1	DACT-E3 Digital Communicator and
1	RPT-E3 Network Repeater
1	Optional FPT-GATE-3 Plate
E3BB-BD, D Size Box/Command Center, Black	
1	PM-9/PM-9G Power Supply
7	ILI-MB-E3/ILI95-MB-E3/ANX Loop Interface and
1	Additional ILI-MB-E3/ILI95-MB-E3/ANX Loop Interface or
1	DACT-E3 Digital Communicator and
1	RPT-E3 Network Repeater
1	Optional FPT-GATE-3 Extender Plate

Optional Extender Plates

AM-50 Extender Plate	
1	AM-50-25 or AM-50-70
FPT-GATE-3 Extender Plate	
1	FocalPoint® Gateway
1	PNET-1

Honeywell | Analog and Networking Systems

Gamewell FCI

E3 Series® Cabinets

Cabinets used for the E3 Series

General

The E3 Series® Expandable Emergency Evacuation System by Gamewell-FCI offers several cabinet size options. The E3 Series System is a modular design that allows a wide range of configurations to form an integrated, distributed fire alarm system. These cabinet options allow for sturdy and modern installations. The E3 Series cabinet assembly is a compact, wall-mounted enclosure. A typical cabinet includes a backbox and an outer locking door. In addition, there are several inner door options and mounting plates to accommodate a variety of E3 Series sub-assemblies.

Each cabinet backbox includes mounting patterns for plates to allow the installer to arrange and secure the sub-assemblies to the backbox. The backbox knockouts are also positioned at numerous points to allow a conduit access into the enclosure.

The following four Annunciator cabinet sizes provide the maximum flexibility that can meet any application.

- Cabinet AA offers 2-slot or 3-slot options to accommodate any of the following configurations:
  - Inner door, 2-slots allows space for one LCD-E3 or LCD-SLP and one ASM-16
  - Inner door, 3-slots allows space for any combination of three modules: ASM-16, NGA or an ANU-48
- Cabinet A1 houses one NGA or one ASM-16/ANU-48.
- Cabinet A2 accommodates a single LCD-E3.
- E3BB-FLUSH-LCD or E3BB-NGA-FLUSH.

The E3BB-R-BSlim or B-Slim contains the 600 Series cabinet. Cabinet B includes a mounting plate that contains a space for the following modules:

- ILI-MB-E3/ILI95-MB-E3
- PM-9/PM-9G sub-assemblies
- Batteries set inside the backbox

Additional sub-assembly options mounted on the backbox include the DACT-E3 and RPT-E3. The 2-slot inner door houses the following options:

- one LCD-E3 module and• either one ASM-16/ANU-48 or one NGA module

E3 Series® Cabinets

FEATURES & BENEFITS

- IBC Seismic Certified
- 16-gauge steel backbox
- Contains removable outer and inner doors
- Lexan® windows appear on the doors of most cabinets, except the Cabinet “C” and “D” INX cabinets and the INX CAB-B cabinet which contain louvered doors
- Built with an inner door bonding strap used to provide electrical continuity for grounding
- Cabinets are available in either black or red
- Backbox and door ground studs provide positive grounding, and 180° opening door with full clearance
- Offers 90° opening door with zero clearance
- Includes a keylock with quarter turn latch
- Trim Ring accessories available

General

Both the C and D-size Command Center cabinets house a variety of E3 Series Broadband sub-assemblies that can be used in multiple configurations that provide a solution to a wide range of applications. Two flexible inner door panel selections are available for C and D-size Command Center cabinets that may contain any of the following:

- fire fighter's phone handset
- microphone
- optional modules to meet the facility operation requirements

Refer to the Inner Door and Backbox Mounting Capacities in the Ordering Information Section.

Ordering Information

Inner Door Mounting Capacity

Part Number	Description
Cabinet "AA" Size	
Dimensions:	19 1/4" W x 10" H x 4 1/2" D (49 W x 25 H x 11.4 D cm)
E3BB-BAA	Enclosure, Black, "AA" (LOC) Size
E3BB-RAA	Enclosure, Red, "AA" (LOC) Size
E31D2-TA	Inner Door, 2-slots (INCC-TEL & ASM-16)
E3ID2-A	Inner Door, 2-slots (LCD-E3 or LCD-SLP & ASM-16)
E3ID3-A	Inner Door, 3-slots (NGA, ASM-16 and MIC)
Cabinet "AA1" Size:	
Dimensions:	8 3/4" W x 10" H x 4 1/2" D (22 W x 25 H x 11.4 D cm)
E3BB-BAA1	Remote Enclosure, Black, w/Inner Door, 1 slot, (NGA)
E3BB-RAA1	Remote Enclosure, Red, w/Inner Door, 1-slot, (NGA)
Cabinet "A2" Size:	
Dimensions:	13 1/4" W x 10" H x 4 1/2" D (40 W x 25 H x 11.4 D cm)
E3BB-BA2	Remote Enclosure, Black, w/Inner Door, 1-slot, (LCD-E3 or LCD-SLP)
E3BB-RA2	Remote Enclosure, Red, w/Inner Door, 1-slot, (LCD-E3 or LCD-SLP)
Flush Cabinet A2 Annunciators:	
Dimensions:	13 1/4" W x 10" H x 4 1/2" D (40 W x 25 H x 11.4 D cm)
E3BB-FLUSH-LCD	CAB A2 Remote Flush LCD ANN with Key switch operation
E3BB-NGA-FLUSH	CAB A2 Remote Flush NGA ANN with Password protected
Cabinet "B-Slim" Size: (Retrofit Kits)	
Dimensions:	14" W x 20" H x 4 1/2: D (35.5 W x 50.8 H x 11 D cm)
E3BB-RBSLIM	Assy, Enclosure, B-SLIM, Red with Backplate and LCD-E3 Keyswitch plate
IF600-RETROFIT	Door and Cab mounting plates, disable key switch and door lock (PK-625) for E3 Series upgrade.
Cabinet "B" Size:	
Dimensions:	19 3/8"W x 19 3/8"H x 4 1/2"D (49 W x 49 H x 11 D cm)
E3BB-BB	Assy, Backbox Enclosure, Black,"B" Size
E3BB-RB	Assy, Backbox Enclosure, Red, "B" Size
E3ID2-B	Inner Door, 2-slots, "B" Size
1100-0458	B Size INCC Command Center enclosure, black
1100-0459	B Size INCC Command Center enclosure, red door
1100-0460	INX-Transponder 19" (cm) Backbox with Door, Black

Ordering Information (Continued)

Part Number	Description
Cabinet "B" Size (Continued)	
Dimensions:	19 3/8"W x 19 3/8"Hx4 1/2"D (49 W x 49 H x 11.43 D cm)
Cabinet "C" Size:	
Dimensions:	19 3/8" W x 30" H x 4 1/2" D (49 W x 76 H x 11 D cm)
E3BB-BC/INCC	Enclosure, Command Ctr, Black, "C" Size
E3BB-RC/INCC	Enclosure, Command Ctr, Red, "C" Size
E3ID2-C	Assy, Inner Door, Command Ctr.2- Bay "C" Size
E3ID3-C	Assy, Inner Door, Command Ctr, 3-Bay "C" Size
E3BB-BC/INX	Assy, Transponder, Black, "C" Size
E3BB-RC/INX	Assy, Transponder, Red, "C" Size
E3-INCC-CPLATE	Command Center module mounting plate, "C" Size
E3-INX-CPLATE	Transponder mounting plate, "C" Size
Inner Door Mounting Capacity	
E3-ILI-CPLATE	Intelligent loop module mounting plate "C" Size
Cabinet "D" Size:	
Dimensions:	19 3/8" W x 41" H x 4 1/2" D (49 W x 104 H x 11 D cm)
E3BB-BD/INCC	Enclosure, Command Ctr, Black, "D" Size
E3BB-RD/INCC	Enclosure, Command Center, Red, "D" Size
E3ID2-D	Assy, Inner Door, 2-Bay, "D" Size
E3ID3-D	Assy, Inner Door, 3-Bay, "D" Size
E3BB-BD/INX	Enclosure, Transponder, Black "D" Size
E3BB-RD/INX	Enclosure, Transponder, Red, "D" Size
E3-INCC-D-PLATE	Command Center module mounting plate, "D" Size
E3-INX-D-PLATE	Transponder module mounting plate, "D" Size
Optional Extender Plates	
AM-50 Plate	AM-50 Extender Plate
FPT-GATE-3-EXT	FPT-GATE-3 Extender Plate
Optional Accessories	
1100-0450	Command Center, blank plate, single size
E3-BP	Inner door panel, blank, double size
90375	PM-9/PM-9G Adapter Plate Kit,Hardware
E3-TRIMKIT-A	Trim kit for "A"/"AA" size enclosure, black
E3-TRIMKIT-A1	Trim kit for "AA1" size enclosure, black
E3-TRIMKIT-A2	Trim kit for "A2" size enclosure, black
E3-TRIMKIT-B	Trim kit for "B" size enclosure, black
E3-TRIMKIT-C	Trim kit for "C" size enclosure, black
E3-TRIMKIT-D	Trim kit for "D" size enclosure, black
Bulk Amplification	
AA-100	100 W Audio Amp.@70.7 V_{RMS} w/120 VAC
AA-120	120 W Audio Amp. @25 V_{RMS} w/ 120 VAC
ACT-1	Audio coupling transformer, for audio systems w/multiple supplies
FCI-CHG-120	Battery Charger, 25-120 A/H Gel cell
FCI-LBB	Battery box, accommodates batteries up to 55 A/H, (Black)
Cabinet C:	
FCI-DR-C4B	Large Battery Backbox,blank door,lock and keys for backbox accepting 3 chassis, (Black)
FCI-DR-C4BR	Blank door, lock and keys, for backbox accepting 3 chassis, (Red)
SBB-C4	Backbox, 3 chassis, (Black)
Cabinet D:	
FCI-DR-D4B	Blank door, lock and keys, for backbox accepting 4 chassis, (Black)
FCI-DR-D4BR	Blank door, lock and keys, for backbox accepting 4 chassis, (Red)
SBB-D4	Backbox, 4 chassis, (Black)
90516	7100-Slim 7A/H Seismic Battery Bracket Kit

Seismic Battery Bracket Kits

Part Number	Description
	E3 B-Slim 7 A/H Seismic Battery Bracket Kit
90517	7100-Slim 12 A/H Seismic Battery Bracket Kit
	E3 B-Slim 12 A/H Seismic Battery Bracket Kit
90518	E3 CAB-B 7 A/H Seismic Battery Bracket Kit

Ordering Information (Continued)

Seismic Battery Bracket Kits (Continued)

Part Number	Description
	E3 CAB-C 7 A/H Seismic Battery Bracket Kit
	E3 CAB-D 7 A/H Seismic Battery Bracket Kit
	NetSOLONS-INX-7A/H Seismic Battery Bracket Kit
	NetSOLO-7100-7A/H Seismic Battery Brckt Kit
90519	E3 CAB-C (INX only) 12 A/H Seismic Battery Bracket Kit
	E3 CAB-D (INX only) 12 A/H Seismic Battery Bracket Kit
	NetSOLO NS-INX 12 A/H Seismic Battery Bracket Kit
90520	E3 CAB-B 18 A/H Seismic Battery Bracket Kit
	E3 CAB-C 18 A/H Seismic Battery Bracket Kit
	E3 CAB-D 18 A/H Seismic Battery Bracket Kit

Retrofit Kits

For information on the Gamewell and 7200 Retrofit Kits, refer to the following Data Sheets.

9021-60678	Gamewell Retrofit Kits Data Sheet
9021-60733	7200 Retrofit Kits Data Sheet

Inner Door Mounting Capacity

Part Number	Components
Cabinet AA	
E3ID2-A	Cabinet AA, Inner Door, 2-slots
1	LCD-E3 Display and
1	ASM-16/ANU-48
E3ID2-TA	Assembly, Door, Inner, TEL-E3
E3ID3-A,	Cabinet A, Inner Door, 3-slots
1	NGA or ASM-16
2	ASM-16s/ANU-48
Cabinet AA1	
E3ID-A1	Cabinet AA1,Inner Door (Includes Box)
1	NGA or ASM-16
Cabinet A2	
E3ID-A2	Cabinet A2, Inner Door, (Includes Box)
1	LCD-E3
Cabinet B	
E3ID2-B	Cabinet B, Inner Door, (Includes Box)
1	LCD-E3 Display and one ASM-16/ANU-48
1	NGA and one ASM-16/ANU-48
B-Slim Cabinet	
1	LCD-E3 Display & one RPT-E3 or one DACT-E3
1	ILI-MB-E3 or one ILI95-MB-E3
1	PM-9 or one PM-9G
Cabinet C	
E3ID2-C	Cabinet C, Inner Door, 2-slots
1	LCD-E3 Display and
5	Any combination of ASM-16/ANU-48, NGA or Microphone Assemblies
1	Telephone Assembly
E3ID3-C	Cabinet C, Inner Door, 3-slots
7	Any Combination of ASM-16/ANU-48, NGA, or Microphone Assemblies
1	Telephone Assembly
Cabinet D	
E3ID2-D	Cabinet D, Inner Door, 2-slots
1	LCD-E3 Display
11	Any Combination of ASM-16/ANU-48, or NGA or Microphone and
1	Telephone Assembly
E3ID3-D	Cabinet D, Inner Door, 3-slots
13	Any Combination of ASM-16/ANU-48, NGA or Microphone Assemblies
1	Telephone Assembly
1	Loop Interface or ANX or
1	DACT-E3 Digital Communicator and
1	RPT-E3 Network Repeater

Backbox Mounting Capacity

E3BB-BAA	Enclosure 'AA' (LOC) Size Black
1	INI-VG Series Voice Gateway
E3BB-BAA1	AA1 Size Box/Door, Black
1	RPT-E3 Network Repeater
E3BB-BB	B-Size Box/Door, Black
1	PM-9/PM-9G Power Supply
1	ILI-MB-E3/ILI95-MB-E3 and

Backbox Mounting Capacity (Continued)

Part Number	Components
E3BB-BB	B-Size Box/Door, Black
1	Additional ILI-MB-E3/ILI95-MB-E3
1	Loop Interface or ANX or
1	DACT-E3 Digital Communicator and
1	RPT-E3 Network Repeater
INX CAB-B Mounting Plate	
1	PM-9 or PM-9G
1	INI-VGX
4	AM-50 Series amplifiers
E3-INCC-C Plate	
1	PM-9/PM-9G Power Supply
1	INI-VG Series Voice Gateway
1	ILI-MB-E3/ILI95-MB-E3 Loop Interface and Additional ILI-MB-E3/ILI95-MB-E3/ANX Loop Interface or
1	DACT-E3 Digital Communicator and
1	RPT-E3 Network Repeater
1	Optional AM-50 or FPT-GATE-3 Extender Plate
E3-ILI-C Plate	
1	PM-9/PM-9G Power Supply
1	ILI-MB-E3 or ILI95-MB-E3
2	Additional ILI-MB-E3/ILI95-MB-E3 or ILI-S-E3/ILI95-S-E3 or ANX
1	DACT-E3
1	RPT-E3
1	Optional FPT-GATE-3 Extender Plate
E3-INX-C Plate	
1	PM-9/PM-9G Power Supply with one PM-9/PM-9G Adapter Plate
1	INI-VGX Voice Gateway
1	ILI-MB-E3 Loop Interface and
1	Additional ILI-MB-E3/LI95-MB-E3/ANX
1	DACT-E3 Digital Communicator and
1	RPT-E3 Network Repeater
4	AM-50 Series Amplifier
1	Optional FPT-GATE-3 Extender Plate
E3-INCC-D Plate	
1	PM-9/PM-9G Power Supply
1	ILI-MB-E3 or ILI95-MB-E3
4	Additional ILI-E3 or ILI95-E3 Series or ANX
1	DACT-E3 Digital Communicator
1	RPT-E3 Network Repeater
1	INI-VG Series
1	Optional AM-50 or FPT-GATE-3 Extender Plate
E3-INX-D Plate	
1	PM-9/PM-9G Power Supply
1	ILI-MB-E3 or ILI95-MB-E3
1	DACT-E3 Digital Communicator
1	RPT-E3 Network Repeater
1	INI-VG Series
4	AM-50 Series Amplifier
1	Optional FPT-GATE-3 Plate
E3BB-BD	D-size Box/Command Center (Voice), Black
1	PM-9/PM-9G Power Supply
1	INI-VG Series Voice Gateway
4	ILI-MB-E3/ILI95-MB-E3/ANX Loop Interface
1	Additional ILI-MB-E3/ILI95-MB-E3/ ANX Loop Interface or
1	DACT-E3 Digital Communicator and
1	RPT-E3 Network Repeater
1	Optional FPT-GATE-3 Plate
E3BB-BD	D-size Box/Command Center, Black
1	PM-9/PM-9G Power Supply
7	ILI-MB-E3/ILI95-MB-E3/ANX Loop Interface & Additional ILI-MB-E3/ILI95-MB-E3/ANX Loop Interface or
1	DACT-E3 Digital Communicator and
1	RPT-E3 Network Repeater
Optional Extender Plates	
AM-50 Extender Plate	
1	AM-50-25 or AM-50-70
FPT-GATE-3 Extender Plate	
1	FocalPoint® Gateway
1	PNET-1
1	Optional FPT-GATE-3 Extender Plate

E3 Series® Cabinets Technical Specifications

STANDARDS

The E3 Series fire alarm control panel cabinets are designed to comply with the following standards:

UL Standards: UL 864 9th Edition:

- Automatic Fire Detector Alarm
- Manual Fire Alarm
- Waterflow Alarm
- Supervisory
- Releasing Device Service
- Releasing/Pre-Action Deluge
- Releasing/Agent Releasing
- Automatic Smoke Alarm, Non-coded and Master Coded Operation

Underwriters Laboratories Standard UL 2572 (Mass Notification Systems).

UUKL for Smoke Control

UL2572 1st Edition

NFPA Standards

NFPA 13 - Standard for Installation of Sprinkler Systems

NFPA 16 - Standard for Foam-Water Sprinkler and Foam Water Spray Systems

NFPA 72 - National Fire Alarm Code:

- Central Station Fire Alarm Systems
- Auxiliary Fire Alarm Systems
- Proprietary Fire Alarm Systems
- Local Fire Alarm Systems
- Remote Station Fire Alarm Systems

NFPA 13 Sprinkler

NFPA 12A Halon 1301

NFPA 15 Water Spray

NFPA 16 Foam Water

NFPA 750 Water Mist

NFPA 2001 Clean Agent

NFPA 12 CO2 Carbon Dioxide

NFPA 17 Dry Chemical/17A Wet Chemical

Seismic Codes

International Building Codes:

- IBC 2013
- IBC 2009
- IBC 2006
- IBC 2003
- IBC 2000 (Seismic)

California Building Code CBC 2007 (Seismic)

STANDARDS

The E3 Series Cabinets are 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 Listed: S1869

MEA Approved: 6177

Fire Dept. of New York: COA# 6077

CSFM: 7165-1703-0125

FM Approved: 3025415

City of Chicago

City of Denver

VMA Seismic Certified

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 E3 Series® Cabinets 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

9020-0649 | W | 06/18

Honeywell

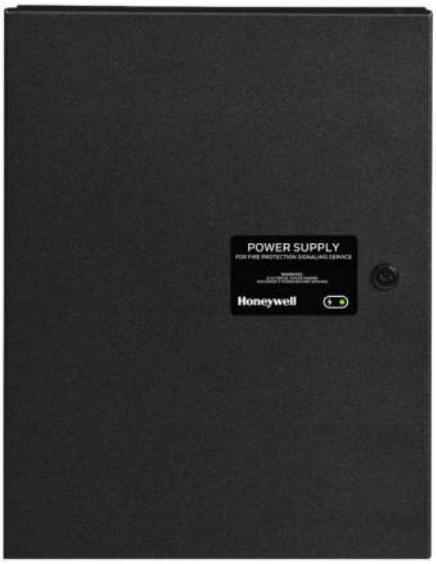
PS SERIES

6 Amp and 10 Amp, 24 Volt Power Supplies

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

The PS Series is a remote power supply line from Gamewell-FCI. The HPF-PS6 is a 6 amp and the HPF-PS10 is a 10 amp, remote power supply 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 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 PS Series also provides auxiliary power, constant or resettable, suited for detectors, annunciators, door holders, and other fire alarm system peripherals. The 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
- HPF-PS6/10 include the - Honeywell Power Products lock set (PN: 17059) and key (PN: 17051)

Honeywell

Gamewell FCI

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

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 PS Series. Includes bracket and hardware for two 7AH or two 18AH batteries.

17070: Alternate Honeywell Gamewell-FCI lock set, PK-625, 3/8" cam

HPS 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-PS6B: TB8-TB9 – 1A Regulated, 3A special applications; TB10-TB12 – 0.3A Regulated, 3A special applications
- HPF-PS10B: TB8-TB11 – 1.5A Regulated, 3A special applications; TB12-TB14 – 0.3A Regulated, 3A special applications
- 6.0 A (HPF-PS6B) or 10.0 (HPF-PS10B) 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 Approved

FM Approved

Country of origin: USA

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www.gamewell-fci.com

9021-61096 | B | 01/21

Gamewell FCI FIRE CONTROL INSTRUMENTS

by Honeywell

LCD-SLP

LCD Touchscreen Annunciator Display

Description

The Gamewell-FCI, Liquid Crystal Display, Smart Loop Panel (LCD-SLP) is a touchscreen annunciator display used with the S3 Series and E3 Series® Systems. The LCD-SLP provides an easy-to-use, intuitive interface for the operator's control. The 4.3" (10.92 cm) color touchscreen display shows the following:

- System Status
- Service modes
- Event details

The following identify the LED Indicators that display on the panel.

- AC (green)
- Supervisory (yellow)
- Fire Alarm (red)
- Trouble (yellow)
- Hazard (blue)
- Silenced (yellow)

The five fully-programmable front panel switch/LED combinations provide a direct access to perform the following tasks:

- Device Bypass
- Lamp Test
- Enable/Disable Groups or Devices

The display features the following physical switches.

- Menu
- System Reset
- Five Programmable Switches
- Drift Walk Test

Installation

The LCD-SLP is adaptable for installation in the S3, E3® Series or Retrofit cabinets. For additional information, refer to the E3 Series Cabinets Data Sheet, P/N:9020-0649

- S3 Series Cabinets
  - SLP-BB basic system enclosure
  - S3BB-BB/S3BB-RB system enclosure
- E3 Series® Cabinets
  - AA size cabinet (E3BB-BAA, E3BB-RAA)
  - A2 size cabinet (E3BB-BA2, E3BB-RA2)
  - A size flush cabinet (E3BB-FLUSH-LCD)
  - B-Slim cabinet (E3BB-RBSLIM)
  - B size cabinet (E3BB-BB, E3BB-RB)
  - C size cabinet (E3BB-BC/INCC, E3BB-RC/INCC)
  - D size cabinet (E3BB-BD/INCC, E3BB-RD/INCC)
- Retrofit Cabinets
  - IF600-RETROFIT
  - 7200-B-RETROFIT
  - 7200-C-RETROFIT

Specifications

Operating Voltage:	24 VDC FWR
Operating Current:	0.030 amp
Alarm Current:	0.065 amp
Operating Temperature:	32° to 120° F (0° to 49° C)
Relative Humidity:	0 to 93%,non-condensing at 90° F (32° C)

LCD-SLP

Features

- Listed per ANSI/UL® Standard 864 9th Edition.
- Provides 4.3" (10.92 cm) color touchscreen display of System Events.
- Includes five custom function buttons with LEDs for direct access to system controls.
- Offers the following installation options:
  - Locally mounted in the S3 Series panels.
  - Remotely mounted in the E3 Series, A2 cabinet or LCD Flush enclosure.
- Displays the following six LED indicators:
  - Alarm
  - Hazard
  - Trouble
  - NAC Silence
  - Supervisory
  - AC Power
- Shows the Hazard LED to indicate gas, carbon monoxide or other toxic gases.
- S3 Series (SLP) supports up to 15 LCD-SLP displays via the RS-485 serial interface.

Ordering Information

Part Number	Description
LCD-SLP	LCD Touchscreen display unit
E3BB-BA2	Remote enclosure with inner door, black, one LCD slot
E3BB-RA2	Remote enclosure with inner door, red, one LCD slot
E3BB-FLUSH-LCD	Remote flush mounting enclosure, black, LCD slot

SIGNALING UL LISTED S1869 FM APPROVED MEA FDNY: COA-#6162 7165-1703:0176 City of Chicago Approved Class 1 THE VMC GROUP Reference Certificate of Compliance VMA-45894-02C

E3 Series® is a registered trademark of Honeywell International Inc.
UL® is a registered trademark of Underwriter's Laboratories Inc.

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS

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www.gamewell-fci.com

FIRE CONTROL INSTRUMENTS

by Honeywell

Velociti™ Series MMO-6SF

Description

The FCI Velociti™ Series, multi-mod six signal output module (MMO-6SF) provides six (6), Style Y (Class B) or three (3), Style Z (Class A) supervised control circuits suitable for a wide range of signaling applications. Each supervised circuit may be used as a:

- Audio speaker circuit.
- Notification applicance circuit.
- Supervised control output.

The Velociti™ Series use a communication protocol that substantially increases the speed of communication between the sensors and certain 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 MMO-6SF connects to the signaling line circuits (SLC) of the FCI analog addressable series fire alarm control panels. Each of the MMO-6SF supervised control 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 supervised output circuit is set with a pair of rotary dials. Each remaining circuit is automatically assigned to its own subsequent address. The MMO-6SF module includes an address disable jumper matrix that allows one, two, or three addresses to be turned off to free these addresses for other purposes. An additional jumper setting selects either Style Y or Style Z circuit configurations. A wide range of configurations are possible including 30 VDC, audio input at 25 or 70.7 V_{RMS}, 125 VAC, etc. More than one circuit can share a power supply if the current capacity does not exceed the power supply's output.

Multi-MOD Six Signal Output Module

MMO-6SF

Features

- Each MMO-6SF module provides six (6), Style Y (Class B) or three (3), Style Z (Class A) individually addressable, individually programmable notification appliance or supervised output circuits.
- Removable wiring terminal blocks allow ease of installation and servicing.
- Terminal blocks can accommodate 12 to 18 AWG wire.
- Flexible jumper configuration feature allowing up to three (3), output circuit addresses to be disabled.
- Accommodates multiple external power inputs.
- External power monitoring.
- Short circuit protection of external power supplies.
- Sources providing AC, DC, or audio inputs.
- Designed for use with FCI analog addressable series fire alarm control panels.
- Individual LED indicators*.
- Ideal for retrofit applications.
- Two (2), mounting cabinets available for two (2), (MBB-2 cabinet) to six (6), (MBB-6 cabinet) units.

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

An ISO 9001-2000 Company

SIGNALING UL LISTED S1949 FM APPROVED 3023594 MEA Approved 227-03-E Vol.IV 07300-0694:266

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Description (continued)

Each output circuit on the MMO-6SF monitors its own connection to its power supply and will indicate a fault condition by address if the power source should fail. The MMO-6SF is also provided with short circuit monitoring to protect the external power source from short circuits on the notification appliance circuit wiring. This feature can be disabled per individual circuit if the application requires.

(Note: power supply monitoring must also be disabled in such cases.)

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

Two (2), multi-mod series units can be mounted in one MBB-2 cabinet. Additional mounting options include the MCH-6 chassis that can accommodate six multi-mod series 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 series modules in one cabinet.

The MMO-6SF is ideal for applications where centralized location of circuits is required. As many as thirty-six (36), supervised output circuits may be located in a cabinet that is only 12.63" 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:	2.25 mA
Alarm Current:	40 mA (with all six LEDs lit)
Maximum IDC Wire Resistance:	25 Ohms
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 (31.1 x 23.5 x 8.4 cm)
MBB-6	12.63" H x 24" W x 6.5" D (32 x 60.1 x 16.5 cm)
External Supply Voltage	
DC Voltage:	18-28 Volts, Power-limited
Ripple Voltage:	0.1 Volts rms maximum
Current:	90 mA per Module

Contact Ratings

Current Rating	Maximum Voltage	Load Description	Application
3A	30 VDC	Resistive	Non-coded
2A	30 VDC	Resistive	Coded
1A	30 VDC	Inductive (L/R= 2ms)	Coded
0.5A	30 VDC	Inductive (L/R= 5ms)	Coded
0.9A	110 VDC	Resistive	Non-coded
0.9A	125 VAC	Resistive	Non-coded
0.7A	70.7 & VAC	Inductive (PF= 0.35)	Non-coded
0.5A	125 VAC	Inductive (PF= 0.35)	Non-coded

Ordering Information

Model	Description
MMO-6SF	Multi-Mod 6 zone interface module
MBB-2	Backbox, 2 unit
MBB-6	Backbox, 6 unit, requires MCH-6
MCH-6	6-Unit mounting chassis

COOPER Notification

Series MB Motor Bells

RSSP REMOTE PLATE

Description

The Wheelock Series MB Motor Bells provide a better engineered motor bell for fire and life safety alarm systems. The Wheelock Series MB Bells include higher dBA, low current draw, built-in trimplate for semi-flush mounting, low frequency aluminum shells, and low RFI noise. The motor for Series MB Bells is a durable, high torque permanent magnet motor selected for its high performance and long life.

These DC vibrating Series MB Motor Bells are offered in 6" and 10" shell sizes in both 12 and 24 VDC models.

Series RSSP Sync/Non-Sync retrofit plates are used in conjunction with the Series MB Motor Bell when combination appliances are required. The Series RSSP retrofit plates are available with either Multi-Candela or single candela strobes and easily mount to a 4" square or Wheelock SBL-2 backbox. All Series RSSP strobe appliances meet or exceed the requirements of NFPA 72 (National Fire Alarm Code), ANSI 117.1 (American National Standard for Accessible and Usable Buildings and Facilities), ADA (Americans with Disabilities Act) and UL Standard 1971 (Signaling Devices for the Hearing Impaired).

The Series RSSP retrofit plates may be synchronized when installed with the Wheelock Series DSM, Sync Modules or Wheelock Power Supplies with Wheelock patented sync protocol. Wheelock synchronized strobes offer an easy way to comply with ADA requirements concerning photo-sensitive epilepsy.

Features

- Approvals include: UL Standard 464, Factory Mutual (FM), Califor nia State Fire Marshal (CSFM), New York (MEA) and Chicago (BFP)
- Meets OSHA 29 Part 1910.165
- High sound output with low current draw
- Low frequency aluminum shells for better audibility through walls, doors and other structures
- 6" and 10" shell sizes in 12 or 24 VDC models
- Integral RFI suppression to minimize included noise on the NAC circuit
- Mounting options for surface, semi-flush, outdoor, and concealed conduit installation
- Built-in trimplate makes semi-flush mounting simpler and less expensive
- Screw terminals permit fast in-out field wiring of #12 to 18 AWG wire
- Polarized for DC supervision of NAC circuits
- Operates on filtered or unfiltered DC
- For combined audible (bell) and visual signaling, convenient retrofit plate assemblies are available with Multi-Candela or Single candela strobes (Refer to Fire Alarm Products Catalog for Series RSSP Sync/Non-Sync Strobes specifications and technical information)

Ordering Information

Model Number	Order Code	Shell Size	Input Voltage (VDC)	Average RMS Current	UL Max*	dBA @ 10 Ft.	Mounting Options
MB-G6-12-R	3942	6"	12	0.060	0.090	92	D,E,J,K,N,O,P,R,S
MB-G6-12-S	4221	6"	12	0.060	0.090		
MB-G6-24-R	3941	6"	24	0.030	0.040		
MB-G6-24-S	4222	6"	24	0.030	0.040		
MB-G10-12-R	3944	10"	12	0.060	0.090		
MB-G10-12-S	4223	10"	12	0.060	0.090		
MB-G10-24-R	3943	10"	24	0.030	0.040		
MB-G10-24-S	4224	10"	24	0.030	0.040		

NOTES:
1. Typical dBA at 10 feet is measured in an anechoic chamber.
2. For bells all 12 VDC models are UL rated for 9.0 to 15.6 VDC and all 24 VDC models for 18.0 to 31.0 VDC.

E5946 151-92-E 7135-0785:113

FM APPROVED

* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

Architects and Engineers Specifications

The alarm appliances shall be Wheelock Series MB vibrating Motor Bells or approved equal. They shall be UL Standard 464 Listed for Fire Protective Service. Shells shall be aluminum in 6" or 10" diameter. Sound output at 10 feet shall be 92 dBA. The bells shall incorporate a permanent magnet motor and suppression circuitry to minimize RFI. They shall include a built-in trimplate for semi-flush mounting to a standard 4" square backbox, or surface mounting to Wheelock's indoor BB backbox or outdoor WBB backbox.

For bell strobe applications, retrofit plates Wheelock Series RSSP with Multi-Candela or Single Candela strobes shall be used. All bell models shall be polarized for line supervision and shall have screw terminals for in-out field wiring of #12 to #18 AWG wire. Operating voltage shall be nominal 24 VDC or 12 VDC. Finish on all models shall be textured enamel.

Model Number	Order Code	Nominal Voltage (VDC)	Strobe Candela	Average Current (AMPS) at listed VDC	UL Max*	**Mounting Options
RSSP-24MCW-FR	9402	24	15/30/75/110	.041/.063/.109/.140	.060/.092/.165/.220	D,E,Z
RSSP-241575W-FR	7793	24	15 (75 on-axis)	.060	.090	D,E,Z
RSSP-121575W-FR	7798	12	15 (75 on-axis)	.152	.255	D,E,Z

* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

Wiring

Fig. 1 Bell Models

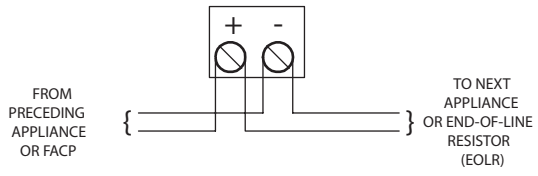
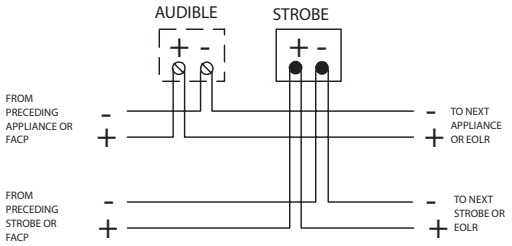


Fig. 2 Retrofit Strobe Plate Models (RSSP)



Wheelock products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

⚠ WARNING: PLEASE READ THESE SPECIFICATIONS AND ASSOCIATED INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS OR WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice In accordance with Wheelock Inc. standard terms and conditions.

NEMA Member

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3 YEAR WARRANTY

S1500 MB 06/11

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F: 732-222-8707
www.coopernotification.com

Gamewell FCI FIRE CONTROL INSTRUMENTS

by Honeywell

Velociti® Series MMO-6RF

Description

The Gamewell-FCI Velociti® Series, multi-mod six relay output module (MMO-6RF) provides six (6), Form “C” control relay outputs on one board. Its compact design affords ease of installation while using a minimum of wall space.

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 MMO-6RF connects to the signaling line circuit (SLC) of the Gamewell-FCI analog addressable series fire alarm control panels. Each relay circuit on the MMO-6RF occupies its own address on the control panel’s SLC and can be programmed to respond to its own individual control-by-event sequence of operation. The address of the first relay is set by a pair of rotary code switches on the MMO-6RF. Each remaining relay circuit is automatically assigned to its own subsequent address.

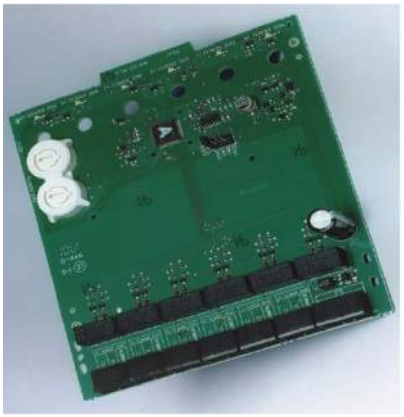
The MMO-6RF module includes an address disable switch that allows one, two, or three addresses to be turned off to free these addresses for other purposes.

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

Two (2), multi-mod series units can be mounted in one MBB-2 cabinet. Additional mounting options include the MCH-6 chassis that can accommodate six (6), multi-mod series modules. The MCH-6 chassis can be installed in custom cabinets or mounted in the MBB-6 cabinet.

The multi-mod series is ideal for applications where centralized location of circuits is required. As many as thirty-six (36), Form “C” relays may be located in a cabinet that is only 12.63” 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.

Multi-Mod Relay Output Module



MMO-6RF

Features

- Each module provides six (6), individually addressed, individually programmable form “C” relays
- Removable wiring terminal blocks allow ease of installation and servicing
- Terminal blocks can accommodate 12 to 18 AWG wire
- Flexible jumper configuration feature allowing up to three relay addresses to be disabled
- A wide range of contact ratings
- Designed for Gamewell-FCI analog addressable series fire alarm control panels
- Individual LED indicators*
- Suitable for retrofit applications
- Ideal for applications such as elevator control, AHU control, door holder release or similar functions requiring multiple relay outputs
- Two (2), mounting cabinets available for two (2), (MBB-2 cabinet) to six (6), (MBB-6 cabinet) units

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 06472-1653 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118

Specifications

Operating Voltage:	15-32 VDC
Stand-by Current:	1.45 mA
Alarm Current:	32 mA (with all six relays activated and all six LEDs lit)
Relay Current:	30 mA/ relay pulse
Relay Contact Ratings:	(see below)
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 1.0" D (17.3 x 14.7 x 2.5 cm)
MBB-2	12.25" H x 9.25" W x 3.32" D (31.1 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)

Contact Ratings

Current Rating	Maximum Voltage	Load Description	Application
3A	30 VDC	Resistive	Non-coded
2A	30 VDC	Resistive	Coded
1A	30 VDC	Inductive (L/R= 2ms)	Coded
0.5A	30 VDC	Inductive (L/R= 5ms)	Coded
0.9A	110 VDC	Resistive	Non-coded
0.9A	125 VAC	Resistive	Non-coded
0.7A	70.7 & VAC	Inductive (PF= 0.35)	Non-coded
0.5A	125 VAC	Inductive (PF= 0.35)	Non-coded

Ordering Information

Part Number	Description
MMO-6RF	Multi-mod relay output
MBB-2	Backbox, 2 unit
MBB-6	Backbox, 6 unit, requires MCH-6
MCH-6	6-Unit mounting chassis

Honeywell | Addressable Devices

Velociti® Series MMI-10F

Multi-Mod Ten Input Monitor Module

General

The Gamewell-FCI Velociti® Series, multi-mod ten input monitor module (MMI-10F) provides ten Style B (Class B) or five Style D (Class A) supervised initiating device circuits (IDCs) that are 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.

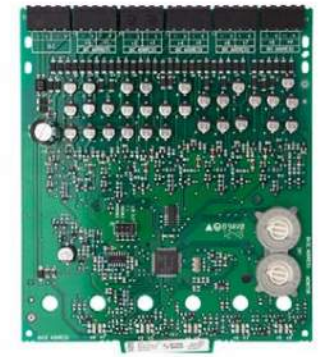
The MMI-10F connects to the signaling line circuits (SLC) of the Gamewell-FCI analog addressable series fire alarm control panels. Each of the MMI-10F circuits occupies its own address on the system's SLC allowing each to be fully programmable in its control-by-event sequence of operation.

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.

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

The MMI-10F is ideal for applications where centralized location of circuits is required. As many as sixty 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.



MMI-10F

Ordering Information

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

FEATURES & BENEFITS

- Each MMI-10F monitor module provides ten Style B (Class B) or five 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 initiating device circuits in one 12" x 24" x 6.5" cabinet.
- Two mounting cabinets available for two (MBB-2 cabinet) to six (MBB-6 cabinet) MMO-6RS
- Bi-color 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.

Velociti® Series MMI-10F Technical Specifications

SYSTEMS

Operating Voltage: 15-32 VDC
Stand-by Current: 3.5 mA
Alarm Current: 60 mA (with all ten LEDs lit)
Maximum IDC:
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)

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 MMI-10F 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: S1913
FM: 3023594
MEA FDNY: 219-02-E Vol VI
CSFM: 7300-1703:0124
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 MMI-10F and other products available by visiting www.Gamewell-FCI.com

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Velociit® Series MMO-6SF

Multi-MOD Six Signal Output Module

General

The Gamewell-FCI Velociti® Series, multi-mod six signal output module (MMO-6SF) provides six, Style Y (Class B) or three Style Z (Class A) supervised control circuits suitable for a wide range of signaling applications. Each supervised circuit may be used as any of the following:

• Audio speaker circui • Notification appliance circuit • Supervised control output

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 MMO-6SF connects to the signaling line circuits (SLC) of the Gamewell-FCI analog addressable series fire alarm control panels. Each of the MMO-6SF supervised control circuits occupies its own address on the system's SLC that allows each to be fully programmable in its control-by-event sequence of operation.

The address of the first supervised output circuit is set with a pair of rotary dials. Each remaining circuit is automatically assigned to its own subsequent address. The MMO-6SF module includes an address disable jumper matrix that allows one, two, or three addresses to be turned off to free these addresses for other purposes. An additional jumper setting selects either Style Y or Style Z circuit configurations. A wide range of configurations are possible including 30 VDC, audio input at 25 or 70.7 V_{RMS}, 125 VAC, etc. More than one circuit can share a power supply if the current capacity does not exceed the power supply's output.

MMO-6SF

FEATURES & BENEFITS

- Each MMO-6SF module provides six Style Y (Class B) or three Style Z (Class A) individually addressable, individually programmable notification appliance or supervised output circuits
- Includes removable wiring terminal blocks allow ease of installation and servicing
- Terminal blocks can accommodate 12 to 18 AWG wire
- Contains external power monitoring
- Provides a flexible jumper configuration feature that allows up to three output circuit addresses to be disabled
- Accommodates multiple external power inputs
- Ideal for retrofit applications
- Short circuit protection of external power supplies
- Sources providing AC, DC, or audio inputs
- Designed for use with Gamewell-FCI analog addressable series fire alarm control panels
- Displays individual LED indicators*
- Offers two mounting cabinets available for two (MBB-2 cabinet) to six (MBB-6 cabinet) units

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

General

Each output circuit on the MMO-6SF monitors its own connection to its power supply and will indicate a fault condition by address if the power source should fail. The MMO-6SF is also provided with short circuit monitoring to protect the external power source from short circuits on the notification appliance circuit wiring. This feature can be disabled per individual circuit if the application requires.

Note: Power supply monitoring must also be disabled in such cases.

Each circuit has its own status LED that flashes to indicate proper polling and lights steadily when the output has been activated. Two multi-mod series units can be mounted in one MBB-2 cabinet. Additional mounting options include the MCH-6 chassis that can accommodate six multi-mod series 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 multi-mod series modules in one cabinet.

The MMO-6SF is ideal for applications where centralized location of circuits is required. As many as thirty-six supervised output circuits may be located in a cabinet that is only 12.63" 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.

Ordering Information

MMO-6SF: Multi-Mod 6 zone interface module
MBB-2: Backbox, 2 unit
MBB-6: Backbox, 6 unit, requires MCH-6

Velociit® Series MMO-6SF Technical Specifications

SYSTEMS

Operating Voltage: 15-32 VDC
Stand-by Current: 2.25 mA
Alarm Current: 40 mA (with all six LEDs lit)
Maximum IDC Wire Resistance: 25 Ohms
Temperature Range: 32° F to 120° F (0° to 49° C)
Humidity: 10 to 85% (non-condensing)
Dimensions:
- **MCH-6:** 6-Unit mounting chassis
  12.25" H x 9.25" W x 3.32" D
  (31.1 x 23.5 x 8.4 cm)
- **MBB-6:** 6.8" H x 5.8" W x 1.25" D
  (17.3 x 14.7 x 3.2 cm)
- **MBB-2:** 12.63" H x 24" W x 6.5" D
  (32 x 60.1 x 16.5 cm)

External Supply Voltage:
- **DC Voltage:** 18-28 Volts,
  Class 2 Power-Limited
- **Ripple Voltage:** 0.1 Volts rms maximum
- **Current:** 90 mA per module

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 MMO-6SF is designed to comply with the following standard:
UL Standard: UL 864 9th Edition

AGENCY LISTINGS AND APPROVALS

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UL: S1913
FM: 3023594
MEA FDNY: 219-02-E Vol. IV
CSFM: 7300-1703:0124
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 Velociit® Series MMO-6SF and other products available by visiting www.Gamewell-FCI.com

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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

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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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Gamewell FCI

NGA

Network Graphic Annunciator

General

The Gamewell-FCI, NGA LCD Graphic Annunciator is a powerful, software programmable, touch-screen, remote annunciator. It is used with the following Gamewell-FCI systems.

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

The bright, back-lit ¼" VGA (Video Graphic Display) is supplemented with an intuitive, easy-to-use touch-screen interface that provides the following features.

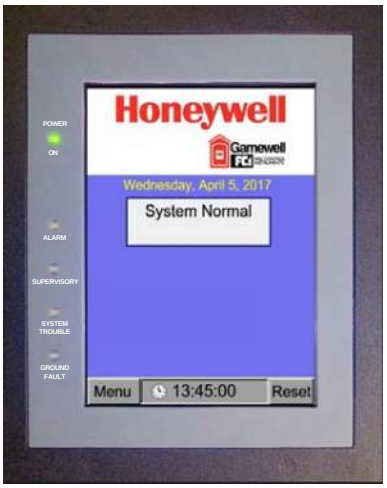
- Up to 512 user-defined messages may be configured.
- Messages may be up to 77 characters in length.
- Display font and color may be selected for each message.

The NGA mounts in the following enclosures or it can be remotely located.

- E3 Series Fire Command Center
- E3 Series Broadband Voice Command Center
- ACU Main Command Center
- E3 LOC Remote Command Center

It occupies one standard slot in the cabinet and directly connects to the INI-VGC or RPT-E3-UTP which eliminates the need for a separate ARCNET interface. The NGA occupies one node on the Broadband network.

The back-lit LCD display indicates events stored in the System Event Log, the status of analog addressable monitor, control points, and provides diagnostic fault codes/messages.



NGA

FEATURES & BENEFITS

- Listed under UL® Standard 864, 9th Edition
- Listed under UL Standard UL2572 for Mass Notification
- Includes an RS-232 interface
- Offers a 1/4" VGA display multipurpose touchscreen provides the following options:
  - Up to 512 user-defined messages may be configured
  - Messages can be up to 77 characters in length
  - Display font and color may be selected for each message
- Mounts in the following command center mounting spaces or enclosures:
  - E3 Series Expandable Emergency Evacuation System
  - E3 Series Broadband Voice Evacuation Systems
  - E3 Series Combined Fire & Mass Notification System
- Provides a software programmable touch-screen interface
- Supports 625K baud ARCNET communications
- Offers a user-friendly design

NGA LEDs

The NGA is programmed to activate LEDs when the system initiates active conditions. Additional LEDs located on the display panel perimeter indicate the following conditions.

- Power On
- Alarm
- System Trouble
- Supervisory
- Ground Fault

Figure 1 illustrates the NGA screen that displays an MNS Alarm Event condition.

Figure 1 NGA Screen with MNS Alarm Event

NGA Touchscreen Tabs and Buttons

The attractive, state-of-the-art display is user-friendly, easy-to-read and affords the end-user with the means to perform numerous functions via the touch-screen feature which is software programmable. The following list the switch and system maintenance functions.

- MNS Alarm
- MNS Supervisory
- Fire Reset
- MNS Reset
- Fire Alarm
- Fire Trouble
- Fire Supervisory
- Alarm Acknowledge
- Text Message
- Signal Silence
- Menu
- Scroll Up
- Scroll Down

NGA Reset Screens Buttons

There are two NGA Reset screen buttons.

- Fire Only Reset button
- Fire/MNS Reset button

The Fire and MNS Reset buttons operate independently of each other. When both Fire and MNS Alarm conditions exist, the highest priority condition must be reset first, then followed by the lower priority condition.

Figure 2 illustrates the NGA, System Reset screen that displays an Inactive Fire/MNS Event.

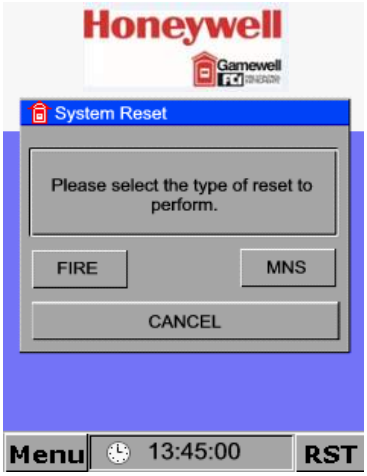


Figure 2 NGA Reset Screen for Inactive Fire/MNS Buttons

Ordering Information

1100-0505: Network graphic annunciator

NGA Technical Specifications

SPECIFICATIONS

Operating Voltage: 24 VDC from the PM-9/PM-9G power supply
Operating Current: 0.200 amp (See Note)
Alarm Current: 0.200 amp
Operating Temperature: 32° to 120° F (0° to 49° C)
Relative Humidity: 0 to 93% (non-condensing) at 90° F (32° C)
Note: Normal operating current. During power failure, current drops to 0.045 amp, since the back light is extinguished.

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 NGA is designed to comply with the following standards:
UL Standards: UL Standard 864 9th Edition:
UL Standard 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,S1949,2572forMassNotification
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 NGA and other products available by visiting www.Gamewell-FCI.com

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9020-0598 | P | 09/17

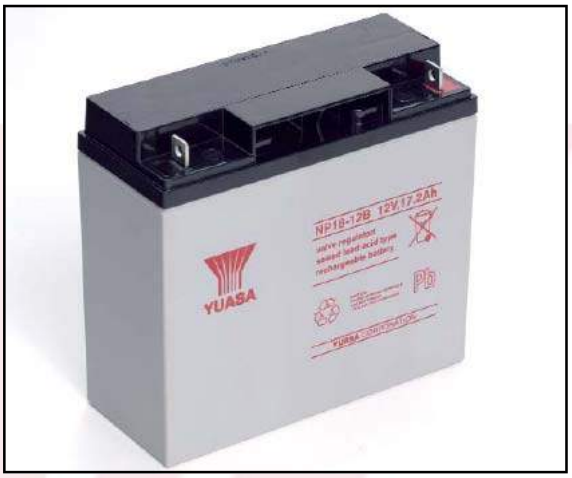
Honeywell

Data Sheet

NP SERIES - **NP18-12**

Reliability is your Security

Utilizing the latest advance design Oxygen Recombination Technology, Yuasa have applied their 80 years experience in the lead acid battery field to produce the optimum design of Sealed Lead Acid batteries.



FEATURES

- Superb recovery from deep discharge.
- Electrolyte suspension system.
- Gas Recombination.
- Multipurpose: Float or Cyclic use.
- Usable in any orientation.
- Superior energy density.
- Lead calcium grids for extended life.
- Manufactured World wide.
- Application specific designs.

Technical Features

Sealed Construction

Yuasa's unique construction and sealing technique ensures no electrolyte leakage from case or terminals.

Electrolyte Suspension System

All NP batteries utilize Yuasa's unique electrolyte suspension system incorporating a microfine glass mat to retain the maximum amount of electrolyte in the cells. The electrolyte is retained in the separator material and there is no free electrolyte to escape from the cells. No gels or other contaminants are added.

Control of Gas Generation

The design of Yuasa's NP batteries incorporates the very latest oxygen recombination technology to effectively control the generation of gas during normal use.

Low Maintenance Operation

Due to the perfectly sealed construction and the recombination of gasses within the cell, the battery is almost maintenance free.

Terminals

NP batteries are manufactured using a range of terminals which vary in size and type. Please refer to details as shown.

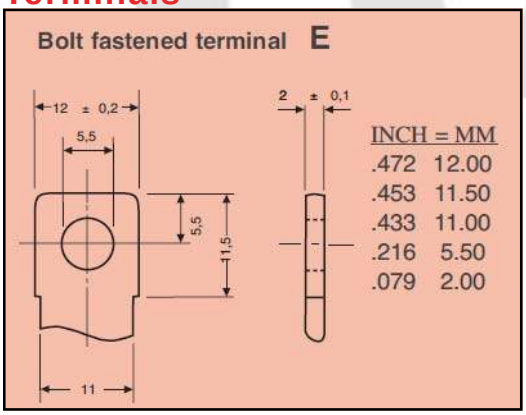
Operation in any Orientation

The combination of sealed construction and Yuasa's unique electrolyte suspension system allows operation in any orientation, with no loss of performance or fear of electrolyte leakage.

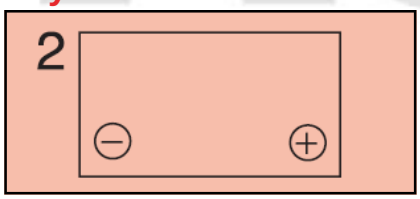
Valve Regulated Design

The batteries are equipped with a simple, safe, low pressure venting system which releases excess gas and automatically reseals should there be a build up of gas within the battery due to severe overcharge. Note. On no account should the battery be charged in a sealed container.

Terminals



Layout



General Specifications

Nominal Capacity (Ah)	NP18-12
20hr to 1.75vpc 30ºC	17.2
10hr to 1.75vpc 20ºC	16
5hr to 1.70vpc 20ºC	14.5
1hr to 1.60vpc 20ºC	10.3
Voltage	12
Energy Density (Wh.L.20hr)	94
Specific Energy (Wh.kg.20hr)	38
Int. Resistance (m.Ohms)	11
Maximum discharge (A)	112
Short Circuit current (A)	500
Dimensions (mm)	
Length	180
Width	76
Height overall	167
Weight (Kg)	6.2
Terminal	E
Layout	2
Terminal Torque Nm	-

NP SERIES - **NP18-12**

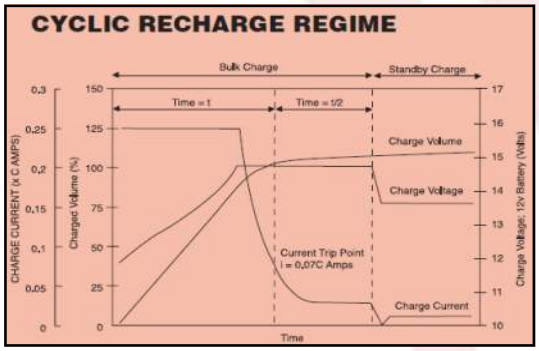
Data Sheet

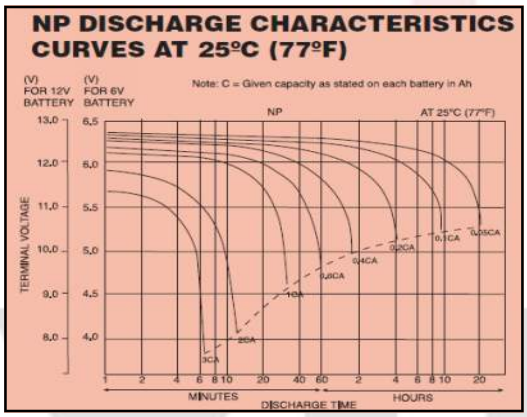
Lead Calcium Grids
The heavy duty lead calcium alloy grids provide an extra margin of performance and life in both cyclic and float applications and give unparalleled recovery from deep discharge.

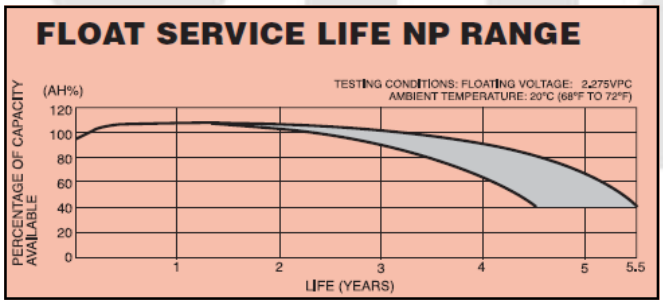
Long Cycle Service Life
Depending upon the average depth of discharge, over a thousand discharge/charge cycles can be expected.

Float Service Life
The expected service life is five years in float standby applications.

Separators
The use of the special separator material provides a very efficient insulation between plates preventing inter-plate short circuits and prohibiting the shedding of active materials.



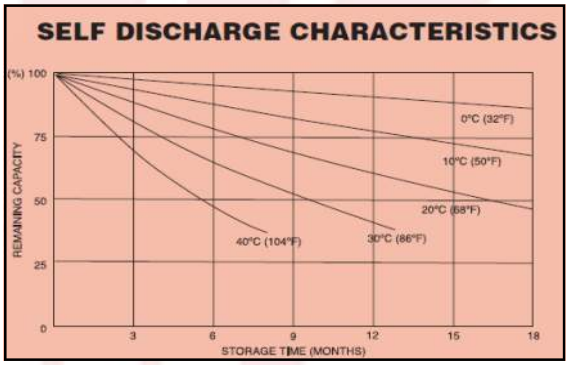


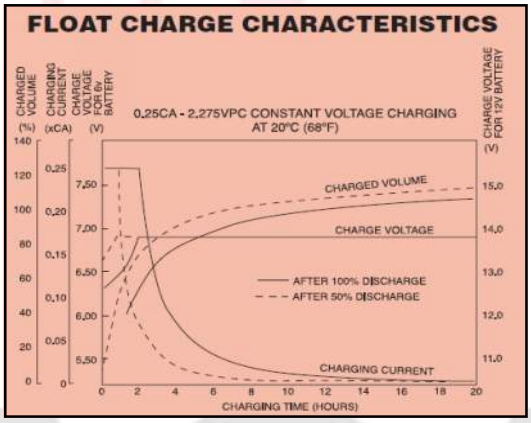


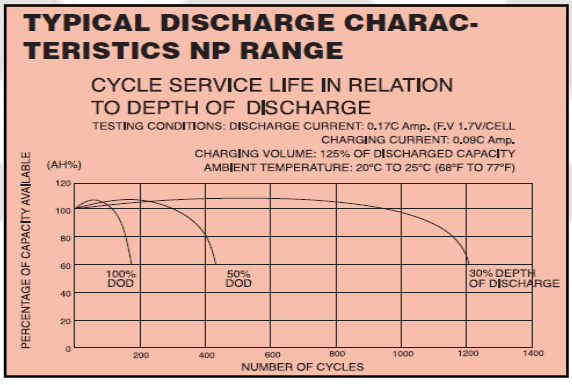
Long shelf Life
The extremely low self discharge rate allows the battery to be stored for extended periods up to one year at normal ambient temperatures with no permanent loss of capacity.

Operating Temperature Range
The batteries can be used over a broad temperature range permitting considerable flexibility in system design and location.

Charge – 15°C to 50°C
Discharge – 20°C to 60°C
Storage – 20°C to 50°C (fully charged battery)







Yuasa Battery Inc.
2901 Montrose Ave
Laureldale, PA 19605
www.yuasabatteries.com

Registered number 1548820

Cat. No.	NP7-12 January 08

Distributed by

Gamewell FCI FIRE CONTROL INSTRUMENTS

by Honeywell

SpectrAlert® Advance

Description

SpectrAlert® Advance selectable-output horns, strobes and horn/strobes are rich with features guaranteed to decrease installation times and maximize profits. The SpectrAlert Advance Series of notification appliances is designed to simplify your installations that offer the following features:

- Plug-in designs.
- Instant feedback messages to ensure correct installation of individual devices.
- Eleven field-selectable candela settings for wall, ceiling strobes and horn/strobes.

Installation

More specifically, to install the Advance products, do the following:

1. Attach a universal mounting plate to a four-inch square, four-inch octagon, or double-gang junction box.
   The two-wire mounting plate attaches to a single-gang junction box.
2. Connect the notification appliance circuit wiring to the SEMS terminals on the mounting plate.
3. To attach the horn, strobe, or horn/strobe to the mounting plate, insert the product's tabs in the mounting plate's grooves.
4. Rotate the device into position, locking the product's pins into the mounting plate's terminals.
5. The device temporarily holds in place with a catch until you secure it with a captured mounting screw.

SpectrAlert Advance products offer the following options:

- 12 or 24 volts.
- At 24 volts, 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, or 185 candela by way of rear-mounted slide switch and front viewing window.
- Horn tones and volume by way of rotary switch.

The SpectrAlert Advance series includes outdoor notification appliances. Outdoor strobes and horn/strobes (two-wire and four-wire) are available for wall or ceiling. Outdoor horns are available for wall only. All System Sensor outdoor products are rated between –40°F and 151°F (–40°C and 66°C) in wet or dry applications.

Selectable Output Notification Appliances

7087pho1.jpg

Indoor Ceiling Horn/Strobe

7087pho2.jpg

Outdoor Ceiling Strobe

7087pho3.jpg

Indoor Wall Horn/Strobe

7087pho4.jpg

Indoor Ceiling Strobe

7087pho5.jpg

Indoor Wall Horn

7087pho6.jpg

Outdoor Wall Strobe

Features

- Provides a plug-in design.
- Comprises an assortment of outdoor wall and ceiling products.
- Has tamper-resistance capability with minimal intrusion into the backbox.
- Offers the same mounting plate for wall- and ceiling-mount units.
- Includes a shorting spring on the mounting plate for a continuity check before installation and a captive mounting screw.
- Field-selectable candela settings on wall or ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.
- Contains an automatic selection of 12 or 24 volt operation at 15 and 15/75 candela.
- Outdoor products rated from –40°F and 151°F (–40°C and 66°C).
- Horn rated at 88+ dbA at 16 volts.
- Provides a rotary switch for tone selection.
- Offers three horn volume settings.
- Electrically compatible with SpectrAlert® products.

SIGNALING UL LISTED S4011 MEA Approved FDNY 452-05-E 7125-1653:0188

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS

GAMEWELL-FCI
12 Clintonville Road, Northford, CT 06472-1653 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118

Available Models:

- Indoor wall-mount: horn, strobe, 2-wire horn/strobe, 4-wire horn/strobe.
- Indoor ceiling-mount: strobe, 2-wire horn/strobe, 4-wire horn/strobe.
- Outdoor wall-mount: horn, strobe, 2-wire horn/strobe, 4-wire horn/strobe.
- Outdoor ceiling-mount: strobe, 2-wire horn/strobe, 4-wire horn/strobe.

Engineering Specifications

SpectrAlert Advance horns, strobes, and horn/strobes shall mount on a standard 4.0" x 4.0" x 1.5" (10.16 x 10.16 x 3.81 cm) backbox, 4.0" (10.16 cm) octagonal backbox, or a double-gang backbox. Two-wire products shall also mount on a single-gang 2.0" x 4.0" x 1.875" (5.08 x 10.16 x 4.763 cm) backbox. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync•Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync•Circuit Module, 12-volt rated notification appliance circuit outputs shall operate between 9 and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32°F and 120°F (0°C and 49°C) 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, 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance Model _____ Listed to UL STD 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Horn/Strobe Combination

The horn/strobe shall be a System Sensor SpectrAlert Advance Model _____ Listed to UL Standards 1971 and 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 3 pattern and a Non-Temporal (continuous) pattern. These options are set by a multiple position switch. On four-wire products, the strobe shall be powered independently of the sounder. The horn on horn/strobe models shall operate on a coded or non-coded power supply.

Outdoor Products

SpectrAlert Advance outdoor horns, strobes and horn/strobes shall be listed for outdoor use by UL and shall operate between –40°F and 151°F (–40°C and 66°C). The products shall be listed for use with a System Sensor outdoor/weatherproof backbox with half-inch and three-fourths-inch conduit entries.

Synchronization Module

The module shall be a System Sensor Sync•Circuit _____ Listed to UL STD 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz and horns at Temporal 3. Also, while operating the strobes, the module shall silence the horns on horn/strobe models over a single pair of wires. The module shall mount to a 4.688" x 4.688" x 2.125" (11.906 x 11.906 x 5.398 cm) backbox. The module shall also control two Style Y (Class B) circuits or one Style Z (Class A) circuit. The module shall synchronize multiple zones. Daisy-chaining two or more synchronization modules together will synchronize all the zones the modules control. The module shall not operate on a coded power supply.

Operating Specifications

Standard operating temperature:	32° F to 120° F (0° C to 49° C)
K Series operating temperature:	-40° F and 151° F (-40° C and 66° C)
Humidity range:	10% to 93% non-condensing (indoor products).
Strobe flash rate:	1 flash per second.
Nominal voltage:	regulated 12 VDC/FWR or regulated 24 VDC.FWR. **Note:** Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.
Operating voltage range:	8 V to 17.5 V (12 V nominal); or 16 V to 33 V (24 V nominal). **Note:** P, S, PC, and SC products will operate at 12 V nominal only for 15 cd and 15/75 cd.
Input terminal wire gauge:	12 to 18 AWG (3.31 to 0.821 mm2).
Ceiling-mount dimensions (including lens):	6.8" diameter x 2.5" deep (17.3 diameter x 6.4 deep cm)
Wall-mount dimensions (including lens):	5.6" H x 4.7" W x 2.5" D (14.2 H x 11.9 W x 6.4 D cm)
Horn dimensions:	5.6" H x 4.7" W x 1.3" D (14.2 H x 11.9 W x 3.3 D cm)

Strobe Current Draw, UL Maximum (mA RMS)

		8 - 17.5 V		16 - 33 V	
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

Horn Current Draw, UL Maximum (mA RMS)

Sound Pattern	**dB**	**8 - 17.5 V**		**16 - 33 V**	
		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

Horn and Horn/Strobe Rotary Switch Setting

Setting	**Repetition Rate**	**dB Level**
1	Temporal Horn	High
2	Temporal horn	Medium
3	Temporal horn	Low
4	Normal horn	Low
5	Normal horn	Medium
6	Normal horn	Low
7*	Externally coded	High
8*	Externally coded	Medium
9*	Externally coded	Low

***NOTE:** Settings 7, 8 and 9 are not available on 2-wire horn/strobe

Horn and Horn/Strobe Output (dBA)

Switch Position	**Sound Pattern**	**dB**	**8 - 17.5 V**		**16 - 33 V**	
			DC	**FWR**	**DC**	**FWR**
1	Temporal	High	78	78	84	84
2	Temporal	Medium	74	74	80	80
3	Temporal	Low	71	73	76	76
4	Non-temporal	High	82	82	88	88
5	Non-temporal	Medium	78	78	85	85
6	Non-temporal	Low	75	75	81	81
7*	Coded	High	82	82	88	88
8*	Coded	Medium	78	78	85	85
9*	Coded	Low	75	75	81	81

***NOTE:** Settings 7, 8, and 9 are not available on 2-wire horn/strobe.

Two-Wire Horn/Strobe, *STANDARD* Candela Range (15 - 115 cd), UL Maximum Current Draw (mA RMS)									
	8 - 17.5 V		16 - 33 V						
Input, Sound Pattern, dB Level	**15**	**15/75**	**15**	**15/75**	**30**	**75**	**95**	**110**	**115**
DC Input, Temporal High	137	147	79	90	107	176	194	212	218
DC Input, Temporal, Medium	132	144	69	80	97	157	182	201	210
DC Input, Temporal, Low	132	143	66	77	93	154	179	198	207
DC Input, Non-temporal, High	141	152	91	100	116	176	201	221	229
FWR Input, Non-temporal Medium	133	145	75	85	102	163	187	207	216
DC Input, 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
FWR Input, Temporal, Medium	129	152	78	88	103	160	184	202	206
FWR Input, Temporal, Low	129	151	76	86	101	160	184	194	201
FWR Input, Non-temporal, High	142	161	103	112	126	181	203	221	229
FWR Input, Non-temporal, Medium	134	155	85	95	110	166	189	208	216
FWR Input, Non-temporal, Low	132	154	80	90	105	161	184	202	211

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

Ordering Information:

Model	**Description**	**Model**	**Description**
WALL HORNS/STROBES		**CEILING HORN/STROBES**	
P2R	2-wire horn/strobe, standard cd, red.	**PC2R**	2-wire horn/strobe, standard cd, red.
P2RH	2-wire horn/strobe, high cd, red.	**PC2RH**	2-wire horn/strobe, high cd, red.
P2RK	2-wire horn/strobe, standard cd, red, outdoor.	**PC2RK**	2-wire horn/strobe, standard cd, red, outdoor.
P2RHK	2-wire horn/strobe, high cd, red, outdoor (includes backbox).	**PC2RHK**	2-wire horn/strobe, high cd, red, outdoor.
P2W	2-wire horn/strobe, standard cd, white.	**PC2W**	2-wire horn/strobe, standard cd, white.
P2WH	2-wire horn/strobe, high cd, white.	**PC2WH**	2-wire horn/strobe, high cd, white.
P2WK	2-wire horn/strobe, standard cd, white, outdoor, (includes backbox).	**PC4R**	4-wire horn/strobe, standard cd, red.
P4R	4-wire horn/strobe, standard cd, red.	**PC4RH**	4-wire horn/strobe, high cd, red.
P4RH	4-wire horn/strobe, high cd, red.	**PC4RK**	4-wire horn/strobe, standard cd, red, outdoor, (ceiling mount).
P4RK	4-wire horn/strobe, standard.	**PC4RHK**	4-wire horn/strobe, high cd, red, outdoor.
P4RHK	4-wire horn/strobe, high cd, red, outdoor.	**PC4W**	4-wire horn/strobe, standard cd, white.
P4W	4-wire horn/strobe, standard cd, white.	**PC4WH**	4-wire horn/strobe, high cd, white.
P4WH	4-wire horn/strobe, high cd, white.		
WALL STROBES		**CEILING STROBES**	
SR	Strobe, standard cd, red.	**SWHK**	Strobe, high cd, white, outdoor.
SRH	Strobe, high cd, red.	**SCR**	Strobe, standard cd, red.
SRK	Strobe, standard cd, red, outdoor.	**SCRH**	Strobe, high cd, red.
SRHK	Strobe, high cd, red, outdoor.	**SCRK**	Strobe, standard cd, red, outdoor.
SW	Strobe, standard cd, white.	**SCRHK**	Strobe, high cd, red, outdoor.
SWH	Strobe, high cd, white.	**SCW**	Strobe, standard cd, white.
SWK	Standard, white, outdoor	**SCHW**	Strobe, high cd, white.
SPEAKER STROBES/HORNS			
SPSCWV-P	Unmarked Speaker Strobe, ceiling-mount, standard candela, high dBA, white.	**SPWK**	Outdoor Speaker, includes backbox, wall-mounted, white.
SPSR-P	Unmarked Speaker Strobe, indoor, wall-mounted, standard candela, red.	**SR-P**	Unmarked Horn, wall-mounted, standard candela, red.
SPSR-P	Unmarked Speaker Strobe, indoor, wall-mounted, standard candela dBA, red.		
ACCESSORIES		**HORNS**	
SBBR	Backbox skirt, wall, red.	**HR**	Horn, red.
SBBW	Backbox skirt, wall, white.	**HRK**	Horn, red, outdoor.
SBBCR	Backbox skirt, ceiling, red.	**HW**	Horn, white.
SBBCW	Backbox skirt, ceiling, white.		

NOTE: "High cd" refers to strobes that include 135, 150, 177, and 185 candela settings. "Standard cd" refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings.

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

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

Features

- Updated Modern Aesthetics
- Small profile devices for Horns and Horn Strobes
- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- Automatic selection of 12- or 24-volt operation at 15 and 30 candela
- Field-selectable candela settings on wall units: 15, 30, 75, 95, 110, 135, and 185
- Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and two volume selections
- Mounting plate for all standard and all compact wall units
- Mounting plate shorting spring checks wiring continuity before device installation
- Electrically compatible with legacy SpectrAlert and SpectrAlert Advance devices
- Compatible with MDL3 sync module
- Strobes and Horn Strobes listed for wall mounting only
- Horns listed for wall or ceiling use

Agency Listings

SIGNALING UL LISTED
S5512
S4011

FM APPROVED
FM approved except for ALERT models 3057383, 3057072

7125-1653:0504
7135-1653:0503

The System Sensor L-Series offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry with lower current draws and modern aesthetics. With white and red plastic housings, standard and compact devices, and plain, FIRE, and FUEGO-printed devices, System Sensor L-Series can meet virtually any application requirement.

The L-Series line of wall-mount horns, strobes, and horn strobes include a variety of features that increase their application versatility while simplifying installation. All devices feature plug-in designs with minimal intrusion into the back box, making installations fast and foolproof while virtually eliminating costly and time-consuming ground faults.

To further simplify installation and protect devices from construction damage, the L-Series utilizes a universal mounting plate for all models with an onboard shorting spring, so installers can test wiring continuity before the device is installed.

Installers can also easily adapt devices to a suit a wide range of application requirements using field-selectable candela settings, automatic selection of 12- or 24-volt operation, and a rotary switch for horn tones with two volume selections.

L-Series Specifications

Architect/Engineer Specifications

General

L-Series standard horns, strobes, and horn strobes shall mount to a standard 2 x 4 x 1 7/8-inch back box, 4 × 4 × 1½-inch back box, 4-inch octagon back box, or double-gang back box. L-Series compact products shall mount to a single-gang 2 × 4 × 1 7/8-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products for all standard models and a separate universal mounting plate shall be used for mounting wall compact models. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, L-Series 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 8.5 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 16.5 and 33 volts. Indoor L-Series products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Strobes and horn strobes shall have field-selectable candela settings including 15, 30, 75, 95, 110, 135, and 185.

Strobe

The strobe shall be a System Sensor L-Series Model _____ listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Horn Strobe Combination

The horn strobe shall be a System Sensor L-Series 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 two audibility options and an option to switch between a temporal three pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch. The horn on horn strobe models shall operate on a coded or non-coded power supply.

Synchronization Module

The module shall be a System Sensor Sync•Circuit model MDL3 listed to UL 464 and shall be approved for fire protective service. The module shall synchronize Strobes at 1 Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn strobe models over a single pair of wires. The module shall mount to a 4 11/16 × 4 11/16 × 2 1/8-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Physical/Electrical Specifications	
Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12 DC 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)
Operating Voltage Range MDL3 Sync Module	8.5 to 17.5 V (12 V nominal) or 16.5 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 × 1.91˝D (143 mm L × 119 mm W × 49 mm D)
Compact Wall-Mount Dimensions (including lens)	5.26" L x 3.46" W x 1.91" D (133 mm L x 88 mm W x 49 mm D)
Horn Dimensions	5.6˝L × 4.7˝W × 1.25˝D (143 mm L × 119 mm W × 32 mm D)
Compact Horn Dimensions	5.25" L x 3.45" W x 1.25" D (133 mm L x 88 mm W x 32 mm D)

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. Strobe products will operate at 12 V nominal only for 15 cd and 30 cd.

UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)

		8–17.5 Volts	16–33 Volts	
	Candela	DC	DC	FWR
Candela Range	15	88	43	60
	30	143	63	83
	75	N/A	107	136
	95	N/A	121	155
	110	N/A	148	179
	135	N/A	172	209
	185	N/A	222	257

UL Max. 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 Max. Current Draw (mA RMS), Wall Horn Strobe, Candela Range (15–185 cd)

	8–17.5 Volts		16–33 Volts						
DC Input	15cd	30cd	15cd	30cd	75cd	95cd	110cd	135cd	185cd
Temporal High	98	158	54	74	121	142	162	196	245
Temporal Low	93	154	44	65	111	133	157	184	235
Non-Temporal High	106	166	73	94	139	160	182	211	262
Non-Temportal Low	93	156	51	71	119	139	162	190	239
3.1K Temporal High	93	156	53	73	119	140	164	190	242
3.1K Temporal Low	91	154	45	66	112	133	160	185	235
3.1K Non-Temporal High	99	162	69	90	135	157	175	208	261
3.1K Non-Temporal Low	93	156	52	72	119	138	162	192	242
	16–33 Volts								
FWR Input	15cd	30cd	75cd	95cd	110cd	135cd	185cd		
Temporal High	83	107	156	177	198	234	287		
Temporal Low	68	91	145	165	185	223	271		
Non-Temporal High	111	135	185	207	230	264	316		
Non-Temportal Low	79	104	157	175	197	235	283		
3.1K Temporal High	81	105	155	177	196	234	284		
3.1K Temporal Low	68	90	145	166	186	222	276		
3.1K Non-Temporal High	104	131	177	204	230	264	326		
3.1K Non-Temporal Low	77	102	156	177	199	234	291		

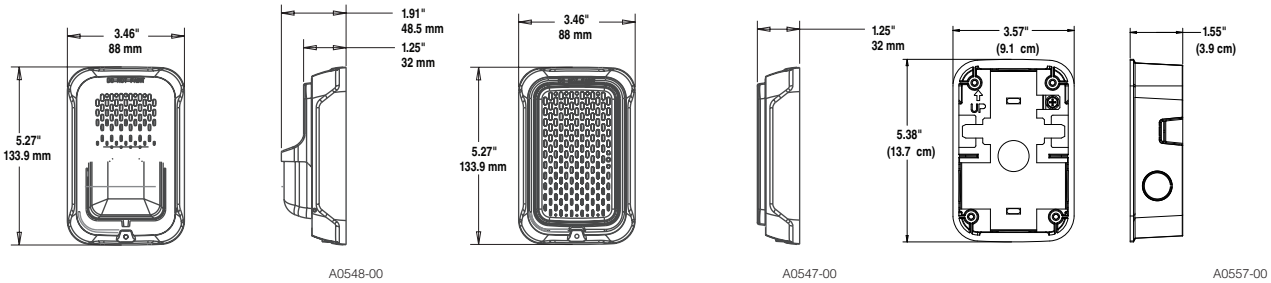
Horn Tones and Sound Output Data

Horn and Horn Strobe Output (dBA)

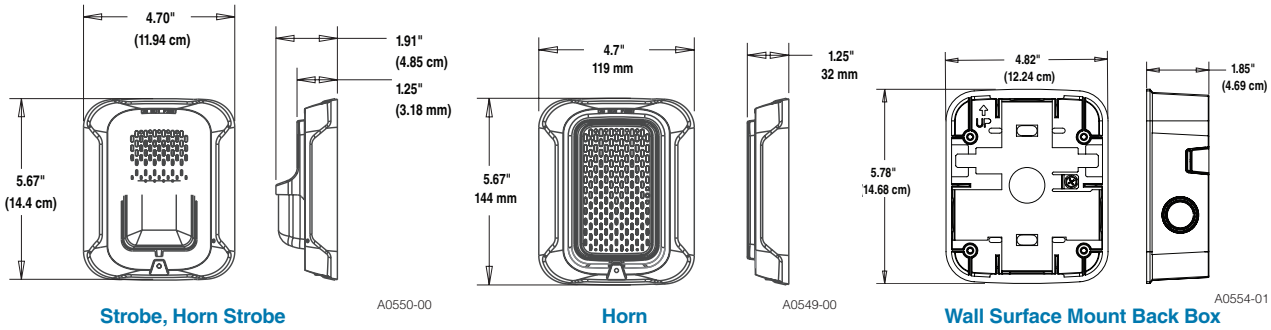
			8–17.5 Volts	16–33 Volts	
Switch Position	Sound Pattern	dB	DC	DC	FWR
1	Temporal	High	84	89	89
2	Temporal	Low	75	83	83
3	Non-Temporal	High	85	90	90
4	Non-Temporal	Low	76	84	84
5	3.1 KHz Temporal	High	83	88	88
6	3.1 KHz Temporal	Low	76	82	82
7	3.1 KHz Non-Temporal	High	84	89	89
8	3.1 KHz Non-Temporal	Low	77	83	83
9*	Coded	High	85	90	90
10*	3.1 KHz Coded	High	84	89	89

* Settings 9 and 10 are not available on 2-wire horn strobes. Temporal coding must be provided by the NAC. If the NAC voltage is held constant, the horn output remains constantly on.

L-Series Dimensions



Compact Strobe, Horn Strobe | **Compact Horn** | **Compact Wall Surface Mount Back Box SBBGRL, SBBGWL**



Strobe, Horn Strobe | **Horn** | **Wall Surface Mount Back Box SBBRL/SBBWL**

L-Series Ordering Information

Model	Description
Wall Horn Strobes	
P2RL	2-Wire, Horn Strobe, Red
P2WL	2-Wire, Horn Strobe, White
P2GRL	2-Wire, Compact Horn Strobe, Red
P2GWL	2-Wire, Comp 2 fils act Horn Strobe, White
P2RL-P	2-Wire, Horn Strobe, Red, Plain
P2WL-P	2-Wire, Horn Strobe, White, Plain
P2RL-SP	2-Wire, Horn Strobe, Red, FUEGO
P2WL-SP	2-Wire, Horn Strobe, White, FUEGO
P4RL	4-Wire, Horn Strobe, Red
P4WL	4-Wire, Horn Strobe, White
Wall Strobes	
SRL	Strobe, Red
SWL	Strobe, White
SGRL	Compact Strobe, Red
SGWL	Compact Strobe, White
SRL-P	Strobe, Red, Plain
SWL-P	Strobe, White, Plain
SRL-SP	Strobe, Red, FUEGO
SWL-CLR-ALERT	Strobe, White, ALERT

Model	Description
Horns*	
HRL*	Horn, Red
HWL*	Horn, White
HGRL*	Compact Horn, Red
HGWL*	Compact Horn, White
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

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

SYSTEM SENSOR®
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www.systemsensor.com

AVDS865-05 • 2/22/2018

Outdoor Selectable-Output Strobes and Horn Strobes for Ceiling Applications

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

Features

- Weatherproof NEMA 4X, IP56 rated
- 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 strobes and horn strobes for ceiling 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. Plastic and metal weatherproof back boxes come with ¾-inch top and bottom conduit entries and ¾-inch knock-outs at the back. Three screw-in NPT plugs with O-ring gaskets for a watertight seal is included with each back box.

SpectrAlert Advance Outdoor 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 8.5 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 16.5 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 1638 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 1638 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 strobe on a 2-wire model shall work on a non-coded power supply. The horn on 4-wire 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 listed 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)
Operating Voltage Range with MDL3 Sync Module	8.5 to 17.5V (12 V nominal) or 16.5 to 33V (24 V nominal)
Input Terminal Wire Gauge	12 to 18 AWG
Ceiling-Mount Dimensions (including lens)	6.8″ diameter × 2.5″ high (173 mm diameter × 64 mm high)
Strobe / Horn Strobe Dimensions	5.6″ L × 4.7″ W × 1.3″ D (142 mm L × 119 mm W × 33 mm D)
Strobe / Horn Strobe Dimensions with Back Box	5.6″ L × 4.7″ W × 1.3″ D (142 mm L × 119 mm W × 33 mm D)
Ceiling-Mount Weatherproof Back Box Dimensions	7.1″ diameter × 2.0″ high (180 mm diameter × 51 mm high)

Notes:

1. Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.
2. 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 for 4-Wire Horn Strobes (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

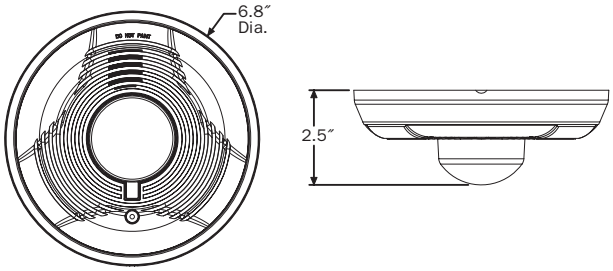
Horn Strobe Output (dBA)

			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

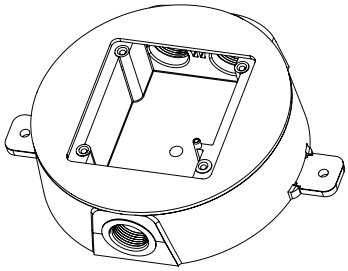
†Settings 7, 8, and 9 are not available on 2-wire horn strobe.

AVDS11401

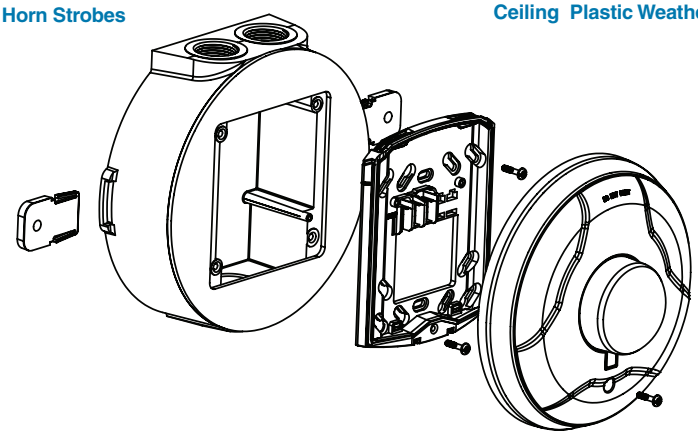
SpectrAlert Advance Diagrams



Ceiling-Mount Horn Strobes



Ceiling Plastic Weatherproof Back Box



Ceiling-Mount Horn Strobe with Plastic Weatherproof Back Box

SpectrAlert Advance Ordering Information

Model	Description
Ceiling Horn Strobes	
PC2RK	2-Wire Horn Strobe, Standard cd, Red, Outdoor (includes plastic weatherproof back box)
PC2RHK	2-Wire Horn Strobe, High cd, Red, Outdoor (includes plastic weatherproof back box)
PC2WK	2-Wire, Horn Strobe, Standard cd, White, Outdoor (includes plastic weatherproof back box)
PC2WHK	2-Wire, Horn Strobe, High cd, White, Outdoor (includes plastic weatherproof back box)
Ceiling Strobes	
SCRK	Strobe, Standard cd, Red, Outdoor (includes plastic weatherproof back box)
SCRHK	Strobe, High cd, Red, Outdoor (includes plastic weatherproof back box)
SCWK	Strobe, Standard cd, White, Outdoor (includes plastic weatherproof back box)
SCWHK	Strobe, High cd, White, Outdoor (includes plastic weatherproof back box)
Accessories	
SA-WBBC	Red, Metal Weatherproof Back Box
SA-WBBCW	White, Metal Weatherproof Back Box
MP120K	

Notes:
"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 outdoor units, both the device and back box must be replaced.**

SYSTEM SENSOR®
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AVDS11402 • 02/15

Indoor Selectable-Output Strobes and Horn Strobes for Ceiling Applications

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

Features

- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- Automatic selection of 12- or 24-volt operation at 15 and 30 candela
- Field-selectable candela settings on ceiling units: 15, 30, 75, 95, 115, 150, and 177
- Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and two volume selections
- Universal mounting plate for ceiling units
- Mounting plate shorting spring feature checks wiring continuity before device installation
- Electrically Compatible with legacy SpectrAlert and SpectrAlert Advance devices
- Compatible with MDL3 sync module
- Listed for ceiling mounting only

The System Sensor L-Series offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry with lower current draws and modern aesthetics. With white and red plastic housings, wall and ceiling mounting options, System Sensor L-Series can meet virtually any application requirement.

The entire L-Series product line of ceiling-mount strobes and horn strobes include a variety of features that increase their application versatility while simplifying installation. All devices feature a plug-in design with minimal intrusion into the back box, making installations fast and foolproof while virtually eliminating costly and time-consuming ground faults.

To further simplify installation, the L-Series utilizes a universal mounting plate so installers can mount them to a wide array of back boxes. With an onboard shorting spring, installers can test wiring continuity before the device is installed.

Installers can also easily adapt devices to a suit a wide range of application requirements using field-selectable candela settings, automatic selection of 12- or 24-volt operation, and a rotary switch for horn tones with two volume selections.

Agency Listings

SIGNALING UL LISTED
S5512
S4011

FM APPROVED
FM approved except for ALERT models
3057383

7125-1653:0504
7135-1653:0503

L-Series Specifications

Architect/Engineer Specifications

General

L-Series ceiling-mount strobes and horn strobes shall mount to a standard 4 × 4 × 1½-inch back box, 4-inch octagon back box, or double-gang back box. Two-wire products shall also mount to a single-gang 2 × 4 × 17⁄8-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, L-Series 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 8.5 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 16.5 and 33 volts. Indoor L-Series products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Ceiling strobes and horn strobes shall have field-selectable candela settings including 15, 30, 75, 95, 115, 150, and 177.

Strobe

The strobe shall be a System Sensor L-Series Model _____ listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Horn Strobe Combination

The horn strobe shall be a System Sensor L-Series 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 two audibility options and an option to switch between a temporal three pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch. The horn on horn strobe models shall operate on a coded or non-coded power supply.

Synchronization Module

The module shall be a System Sensor Sync•Circuit model MDL3 listed to UL 464 and shall be approved for fire protective service. The module shall synchronize L-Series strobes at 1 Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn strobe models over a single pair of wires. The module shall mount to a 4 11⁄16 × 4 11⁄16 × 2 1⁄8-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Physical/Electrical Specifications

Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12 VDC 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)
Operating Voltage Range (MDL3)	8.5 to 17.5V (12 V nominal) or 16.5 to 33 V (24V nominal)
Input Terminal Wire Gauge	12 to 18 AWG
Ceiling-Mount Dimensions (including lens)	6.8" diameter × 2.5" high (173 mm diameter × 64 mm high)
Ceiling-Mount Surface Mount Back Box Skirt Dimensions (SBBCRL, SBBCWL)	6.9" diameter x 3.4" high (175 mm diameter x 86 mm high)

Notes:

1. Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.
2. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 30 cd.

UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)

		8–17.5 Volts	16–33 Volts	
	Candela	DC	DC	FWR
Candela Range	15	87	41	60
	30	153	63	86
	75	N/A	111	142
	95	N/A	134	164
	115	N/A	158	191
	150	N/A	189	228
	177	N/A	226	264

UL Max. 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 Max. Current Draw (mA RMS), Ceiling Horn Strobe, Candela Range (15–177 cd)

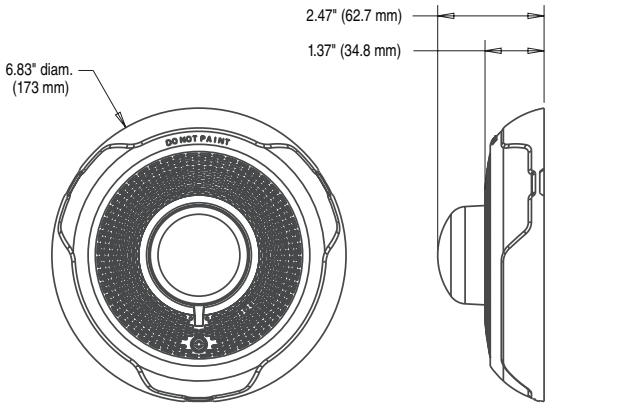
	8–17.5 Volts		16–33 Volts						
DC Input	15cd	30cd	15cd	30cd	75cd	95cd	115cd	150cd	177cd
Temporal High	103	167	71	90	143	165	187	217	254
Temporal Low	96	165	54	71	137	161	185	211	249
Non-Temporal High	106	173	71	90	141	165	187	230	273
Non-Temportal Low	95	166	54	71	124	161	170	216	258
3.1K Temporal High	111	164	69	94	147	163	184	229	257
3.1K Temporal Low	103	163	54	88	143	155	185	212	252
3.1K Non-Temporal High	111	172	69	94	144	164	202	229	271
3.1K Non-Temporal Low	103	169	54	88	131	155	187	217	259
	16–33 Volts								
FWR Input	15cd	30cd	75cd	95cd	115cd	150cd	177cd		
Temporal High	107	135	179	198	223	254	286		
Temporal Low	78	101	151	172	199	229	262		
Non-Temporal High	107	135	179	198	223	254	286		
Non-Temportal Low	78	101	151	172	199	229	262		
3.1K Temporal High	108	135	179	200	225	255	289		
3.1K Temporal Low	79	101	150	171	196	229	260		
3.1K Non-Temporal High	108	135	179	200	225	255	289		
3.1K Non-Temporal Low	79	101	150	171	196	229	260		

Horn Strobe Tones and Sound Output Data

Horn Strobe Output (dBA)

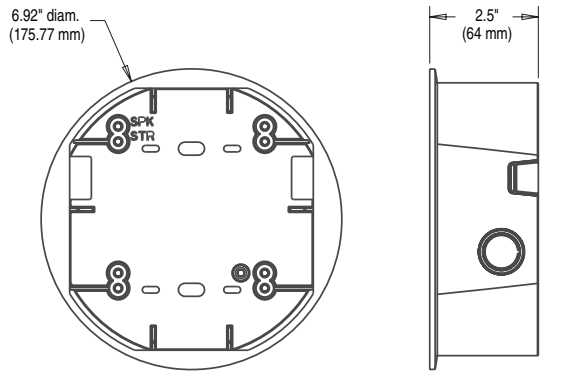
			8–17.5 Volts	16–33 Volts	
Switch Position	Sound Pattern	dB	DC	DC	FWR
1	Temporal	High	84	89	89
2	Temporal	Low	75	83	83
3	Non-Temporal	High	85	90	90
4	Non-Temporal	Low	76	84	84
5	3.1 KHz Temporal	High	83	88	88
6	3.1 KHz Temporal	Low	76	82	82
7	3.1 KHz Non-Temporal	High	84	89	89
8	3.1 KHz Non-Temporal	Low	77	83	83

L-Series Dimensions



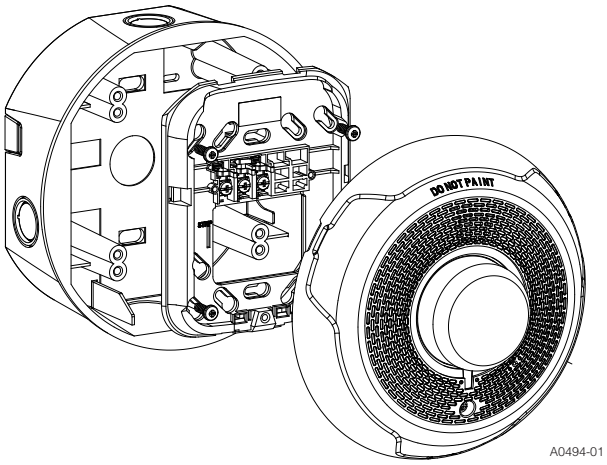
A0545-00

Ceiling-Mount Horn Strobes



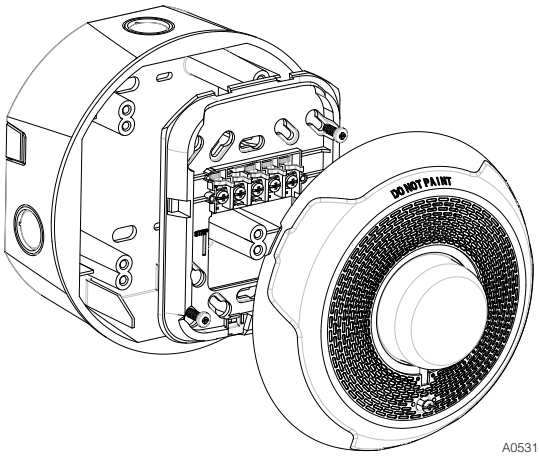
A0546-00

Ceiling Surface Mount Back Box



A0494-01

2-Wire Ceiling Mount Horn Strobes with Ceiling Surface Mount Back Box



A0531-01

4-Wire Ceiling Mount Horn Strobes with Ceiling Surface Mount Back Box

L-Series Ordering Information

Model	Description
Ceiling Horn Strobes	
PC2RL	2-Wire, Horn Strobe, Red
PC2WL	2-Wire, Horn Strobe, White
PC4RL	4-Wire, Horn Strobe, Red
PC4WL	4-Wire, Horn Strobe, White

Model	Description
Ceiling Strobes	
SCRL	Strobe, Red
SCWL	Strobe, White
SCWL-CLR-ALERT	Strobe, White, ALERT
Accessories	
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

For a ceiling-listed horn-only device, see AVDS865 “Indoor Selectable-Output Horns, Strobes, and Horn Strobes for Wall Applications”.

SYSTEM SENSOR®

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Phone: 800-SENSOR2 • Fax: 630-377-6495

AVDS868-02 • 12/01/2017

Honeywell | Analog and Networking Systems

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

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 PM-9 and other products available by visiting www.Gamewell-FCI.com

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RIB® Building Automation

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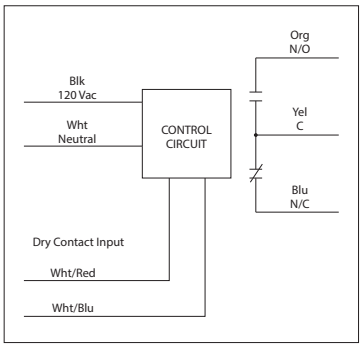
Toll Free: (800) 888-5538 | **Office:** (765) 883-5538 | **Fax:** (765) 883-7505

DRY CONTACT INPUT RELAYS

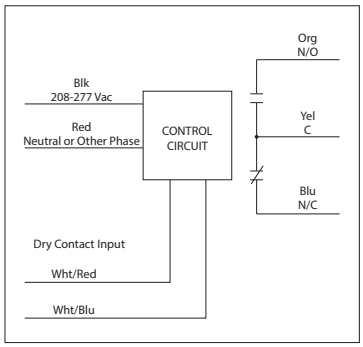
RIB01BDC

Dry Contact Relay, 20 Amp SPDT, Class 2 Dry Contact Input, 120 Vac Power Input, NEMA 1 Housing



RIB02BDC

Dry Contact Relay, 20 Amp SPDT, Class 2 Dry Contact Input, 208-277 Vac Power Input, NEMA 1 Housing



SPECIFICATIONS

 # Relays & Contact Type: One (1) SPDT Continuous Duty Coil
Expected Relay Life: 10 million cycles minimum mechanical
Operating Temperature: -30 to 140° F
Humidity Range: 5 to 95% (noncondensing)
Operate Time: 1.8 Seconds
Relay Status: LED On = Activated
Dimensions: 2.39"H x 3.31"W x 1.81"D with 0.50" NPT nipple
Housing Detail: See **Housing B** in housing guide for dimensions
Origin: Made of US and non-US parts
Wires: 16˝, 600V Rated
Approvals: UL Listed, UL916, C-UL, CE, RoHS
Housing Rating: UL Accepted for Use in Plenum, NEMA 1
Gold Flash: No
Override Switch: No

Contact Ratings:
20 Amp Resistive @ 277 Vac
1110 VA Pilot Duty @ 277 Vac
770 VA Pilot Duty @ 120 Vac
20 Amp Ballast @ 277 Vac
16 Amp Electronic Ballast @ 277 Vac (N/O)
10 Amp Tungsten @ 120 Vac (N/O)
240 Watt Tungsten @ 120 Vac (N/C)
2 HP @ 277 Vac
1 HP @ 120 Vac

Power Input:
42 mA @ 120 Vac (RIB01BDC)
62 mA @ 208-277 Vac (RIB02BDC)

Notes:
- Dry Contact Input Operation:
  Close White/Red wire to White/Blue wire to activate relay. If more than one dry contact RIB® shares a single dry contact input, White/Blue must be common.

Honeywell | Notification Appliances

L-Series, Indoor Strobes and Horn Strobes

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

General

The L-Series audible visible notification products offer the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry. In addition, this product includes lower current draws and a modern aesthetic design which reduce installation times and maximize profits.

The following devices offer a variety of design options, so that the L-Series can be used for any application requirement.

- White and red plastic housings
- Standard and small footprint devices
- Plain, FIRE, and FUEGO-printed devices

Wall Horn, Horn Strobe

Similar to the entire L-Series product line, the wall-mount horns, strobes, and horn strobes include a variety of features that increase their application versatility while simplifying the installation. All devices offer a plug-in design so that there is minimal intrusion into the backbox. These features make installations fast and foolproof while eliminating costly and time-consuming ground faults.

To further simplify the installation and protect devices from construction damage, the L-Series uses a mounting plate for all standard and compact models that include an onboard shorting spring. This feature allows Installers to test wiring continuity before the device is installed.

Installers can also easily adapt devices to suit a wide range of application requirements using the following features:

- Field-selectable candela settings
- Automatic selection of 12- or 24-volt operation
- Rotary switch for horn tones with two volume selections

FEATURES & BENEFITS

- Listed for wall mounting only
- Offers small profile devices for horns and horn strobes
- Provides an automatic selection of 12- or 24-volt operation at 15 and 30 candela
- Produces horn rated at 88+ dBA at 16 volts
- Uses field-selectable candela settings on wall units:
  - 15
  - 30
  - 75
  - 95
  - 110
  - 135
  - 185
- Includes a mounting plate for all standard and all compact wall units
- Contains a mounting plate with a shorting spring that checks the wiring continuity before device installation
- Features a plug-in design with minimal intrusion into the backbox
- Designed with a tamper-resistant construction
- Supports a rotary switch for horn tone and two volume selections

Architect/Engineer Specifications

General

When it is used with the Sync•Circuit Module, the following occur:

• 12-volt-rated notification appliance circuit outputs shall operate between 8.5 and 17.5 volts

• 24-volt-rated notification appliance circuit outputs shall operate between 16.5 and 33 volts

The Indoor L-Series products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Strobes and horn strobes shall have the following field-selectable candela settings:

- 15
- 30
- 75
- 95
- 115
- 150
- 177

Strobe

The strobe shall be an L-Series Model _____ listed to UL Standard 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/ reflector system.

Horn Strobe Combination

The horn strobe shall be an L-Series Model _____ listed to UL Standard 1971 and UL Standard 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 two audible options and an option to switch between a temporal three pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch. The horn on horn strobe models shall operate on a coded or non-coded power supply.

Synchronization Module

The module shall be a Sync•Circuit model MDL3 listed to UL Standard 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn strobe models over a single pair of wires.

The module shall mount to a 4 11/16 x 4 11/16 x 2 1/8-inch backbox. The module shall also control two Style Y (Class B) circuits or one Style Z (Class A) circuit. The module shall synchronize multiple zones. Daisy-chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply

UL Current Draw

Table 1 lists the UL maximum strobe current draw.

	Candela	8-17.5 Volts DC	16-33 Volts DC	FWR
Candela Range	15	88	43	60
	30	143	63	83
	75	N/A	107	136
	95	N/A	121	155
	110	N/A	148	179
	135	N/A	172	209
	185	N/A	222	257

Table 1: UL Maximum Strobe Current Draw (mA RMS)

Table 2 lists the UL maximum Horn current draw.

Sound Pattern	dB	8-17.5 Volts	16-33 Volts	
		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

Table 2: UL Max. Horn Current Draw (mA RMS)

UL Current Draw Data

Table 3 lists the maximum UL Current Draw (mA RMS) allowed for Wall Horn Strobes.

DC	8-17.5 Volts		16-33 Volts						
	15cd	30cd	15cd	30cd	75cd	95cd	110cd	135cd	185cd
EM Temp Hi	98	158	54	74	121	142	162	196	245
EM Temp Low	93	154	44	65	111	133	157	164	235
EM Cont Hi	106	166	73	94	139	160	182	21	262
EM Cont Low	93	156	51	71	119	139	162	190	239
3.1K Temp Hi	93	156	53	73	119	140	164	190	242
3.1K Temp Low	91	154	45	66	112	133	160	185	235
3.1K Cont Hi	99	162	69	90	135	157	175	208	261
3.1K Cont Low	93	156	52	72	119	138	162	192	242
	16V FWR								
FWR Input	15cd	30cd	75cd		95cd	110cd	135cd	185cd	
EM Temp Hi	83	107	156		177	198	234	287	
EM Temp Low	68	91	145		165	185	223	271	
EM Cont Hi	111	135	185		207	230	264	316	
EM Cont Low	79	104	157		175	197	235	283	
3.1K Temp Hi	81	105	155		177	196	234	284	
3.1K Temp Low	68	90	145		166	186	222	276	
3.1K Cont Hi	104	131	177		204	230	264	326	
3.1K Cont Low	77	102	156		177	199	234	291	

Table 3 UL Max. Current Draw (mA RMS), Wall Horn Strobe, Horn Strobe, Candela Range (15-115 cd)

Horn Strobe Tones and Sound Output Data

Table 4 lists the horn strobe tones and sound output date.

Switch Position	Sound Pattern	dB	8–17.5 Volts DC	16–33 Volts DC	FWR
1	Temporal	High	84	89	89
2	Temporal	Low	75	83	83
3	Non-Temporal	High	85	90	90
4	Non-Temporal	Low	76	84	84
5	3.1 KHz Temporal	High	83	88	88
6	3.1 KHz Temporal	Low	76	82	82
7	3.1 KHz Non-Temporal	High	84	89	89
8	3.1 KHz Non-Temporal	Low	77	83	83
9* (See Note)	Coded	High	85	90	90
10* (See Note)	3.1 KHz Coded	High	84	89	89
Note: Settings 9 and 10 are not available on 2-Wire horns and strobes. Temporal coding must be provided by the NAC. If the NAC voltage is held constant, the horn output remains constantly on.					

Table 4: Horn Strobe Tones and Sound Output Data

L-Series Dimensions

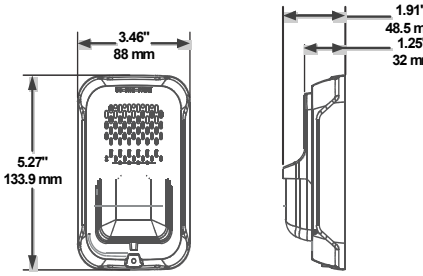


Figure 1 Compact Strobe, Horn Strobe

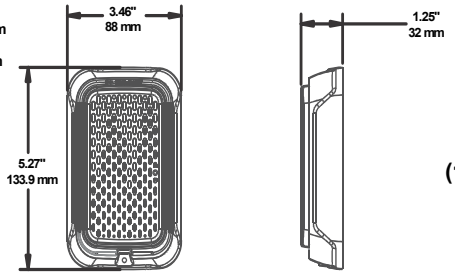


Figure 2 Compact Horn

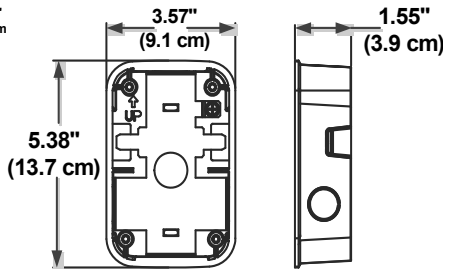


Figure 3 Compact Wall Surface Mount Backbox (SBBGRL, SBBGWL)

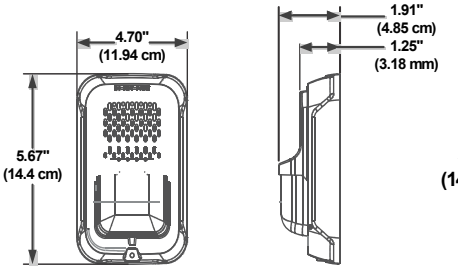


Figure 4 Strobe, Horn Strobe

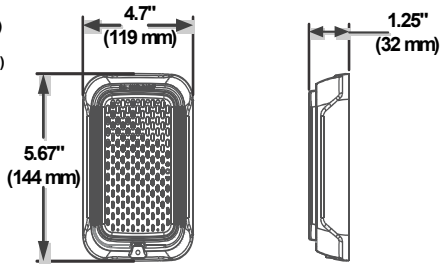


Figure 5 Horn

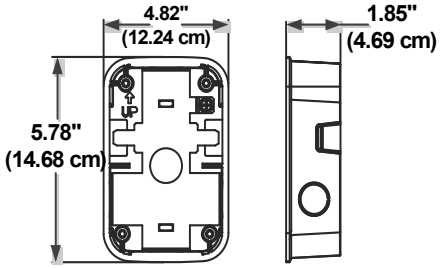


Figure 6 Wall Surface Mount Backbox (SBBRL/SBBWL)

L-Series Ordering Information

Wall Strobes:

SRL: Strobe, Red

SWL: Strobe, White

SGRL: Compact Strobe, Red

SGWL: Compact Strobe, White

SRL-P: Strobe, Red, Plain

SWL-P: Strobe, White, Plain

SWL-CLR-ALERT: Strobe, White, ALERT

Notes:

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.

L-Series Ordering Information

HRL*: Horn, Red

HWL*: Horn, White

HGRL*: Compact Horn, Red

HGWL*: Compact Horn, White

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

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 Backbox, Red

SBBGWL: Compact Wall Surface Mount Backbox, White

L-Series, Indoor Strobes and Horn Strobes Technical Specifications

SYSTEMS

Temperature Ranges:
Standard Operating Temperature: 32°F to 120°F (0°C to 49°C)
Humidity Range: 10 to 93% non-condensing
Voltages:
Strobe Flash Rate: 1 flash per second
Nominal Voltage: Regulated 12 VDC 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)
Operating Voltage Range (MDL3): 8.5 to 17.5V(12 V nominal) or 16.5 to 33 V(24V nominal)
Wire Gage:
Input Terminal Wire Gauge: 12 to 18 AWG
Dimensions:
Wall-Mount Dimensions (including lens):
5.6"L x 4.7"W x 1.91"D
(143 mm L x 119 mm W x 49 mm D)
Compact Wall-Mount Dimensions (including lens):
5.26" L x 3.46" W x 1.91" D
(133 mm L x 88 mm W x 49 mm D)
Horn Dimensions:
5.6" L x 4.7" W x 1.25" D
(143 mm L x 119 mm W x 32 mm D)
Compact Horn Dimensions:
5.25" L x 3.45" W x 1.25" D
(133 mm L x 88 mm W x 32 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 30 cd.

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 L-Series, Ceiling Strobes and Horn Strobes are designed to comply with the following standard:
UL Standard: UL 1971 and 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: S5512, S4011
CSFM: 7135-1653:0503
7125-1653:0504
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 L-Series, Indoor Strobes and Horn Strobes and other products available by visiting www.Gamewell-FCI.com

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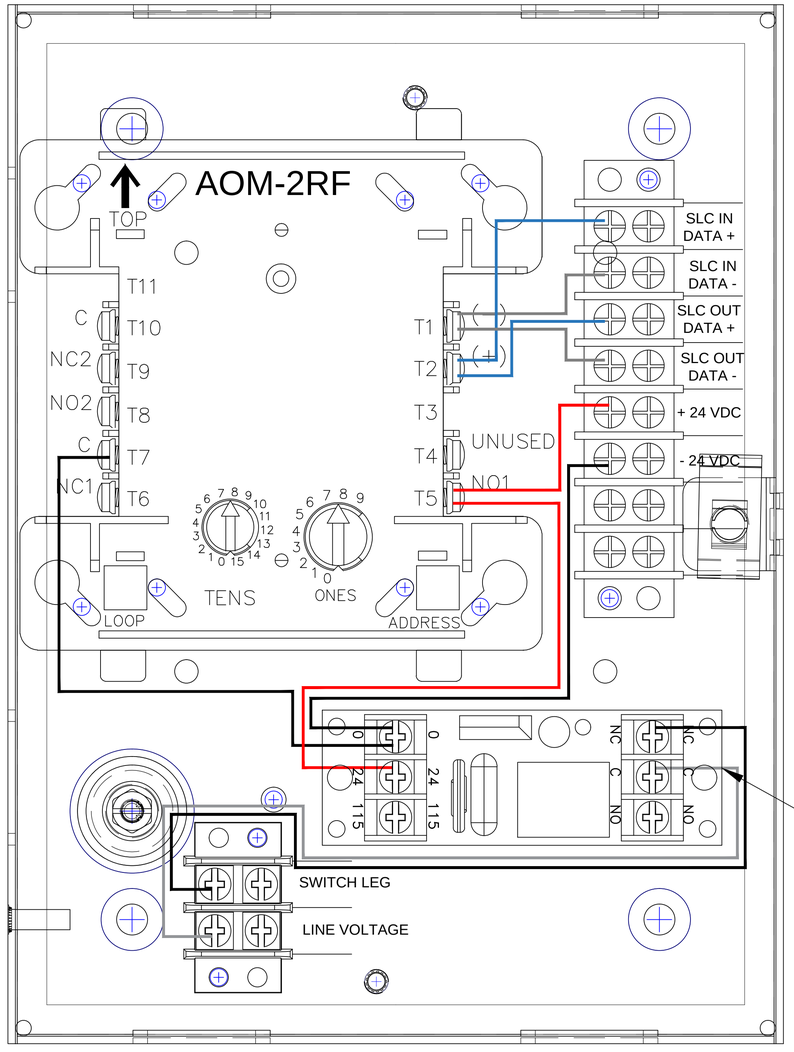
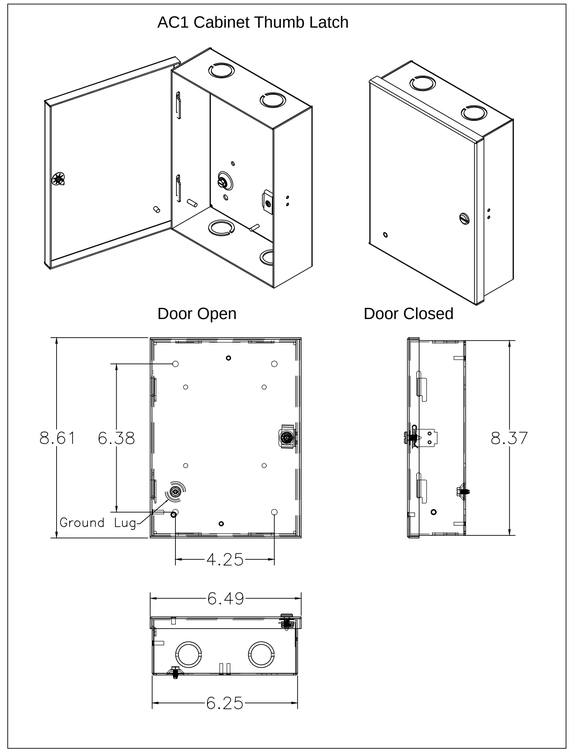


MOUNT TO BACKPLATE WITH STANDOFF



MAT:	AC1	SPECIFICATIONS	
FIN:	CABINET SIZE/PN: TC1		
DATE: 11/1/18	HINGE: L	COVER SCREENING: VS000645	
Unless otherwise specified Dimensions are in Inches	UNIT COLOR: RED	INSTALLATION: INDOOR DRY	
PROJECTION:	WIRING DETAILS: ALL WIRES 16AWG UNLESS OTHERWISE NOTED		
TOLERANCES: ANGLES: ±0.5° LINEAR: .X ±.062 .XX ±.031 .XXX ±.015 .XXXX ±.005			

CUSTOMER:	DFC019
SCALE:	1:1
SAE/OWNER:	SAE#
PART NO:	N/A
DRAFTER:	JB
MANUFACTURING:	
ENGINEERING:	

SPACE AGE ELECTRONICS, INC.

TITLE: AC1 RED AOM2RF MR801 PVC

SIZE:	FILE LOCATION:	SHEET:	DWG:	REV:
D	:\VS	1/1	VS000645	1

CODE: NET00331