

SAFEPATH



# SAFEPATH

Emergency communications system



**EATON**

*Powering Business Worldwide*

# ALERiTY

Integrated mass notification solutions by Eaton;  
designed to protect, alert and inform your most  
critical resources — your people

## ALERiTY

/a • ler • i • tee/

*n.*

1. the quality of alerting with clarity— clear, intelligible and reliable emergency communications
2. unified interoperability platform that seamlessly manages the three layers of Mass Notification— In-building, wide-area and distributed recipient
3. situational awareness, integration with life safety, security and notification systems
4. the state of meeting stringent life safety requirements

# SAFEPTH

In-building, multi-function, supervised emergency communications, paging, messaging and background music system



From the threats our students face to catastrophic natural disasters, there has been a heightened demand for Mass Notification Systems (MNS) that provide clear, concise and intelligible voice messages that communicate how people should respond in an emergency. That's why Eaton's SAFEPTH system, part of the ALERiTY integrated mass notification platform, is the ideal solution that instantly informs personnel and building occupants of exactly what to do and where to go with intelligible and timely voice messages. Whether it's a HAZMAT spill or weather related event, voice communications are critical in today's complex threat environment.

SAFEPTH (SP40S) is an indoor, multi-function, supervised emergency communications system that also provides paging, messaging, and background music. It can be used stand-alone or in combination with a fire alarm system, supplementing or replacing bells, horns, or similar appliances used to sound the evacuation signal when an alarm is initiated. SAFEPTH provides live voice and pre-recorded localized messaging to help direct people to safety. WAVES High Power Speaker Arrays (HPSA-7100-R) can be integrated with SAFEPTH to expand emergency communications outdoors.

In addition, SAFEPTH, when combined with audio boosters and Wheelock speakers, meets NFPA 72 (fire signaling) and NFPA 720 (CO signaling) low frequency tone requirements for sleeping areas.

## Features

- Approvals & Compliance: UL 864, UL 1711, UL 2017 (code 4), UL 864 (code 3), and the low frequency requirements of UL 464 (520 Hz); California State Fire Marshal (CSFM); New York City (MEA); FCC Part 15; ADA compliant
- OSHA 1910.165 compliant; System does not require reliability inspections every two months or required spare parts inventory, saving the building owner costly inspection fees
- Multi-function system: voice evacuation, mass notification, general paging per NFPA 72, supervised background music capabilities, noise masking, and low frequency tone requirements for sleeping room applications
- Fully supervised: 2 amps of supervised 24 VCD strobe power per circuit; Supervised NAC and audio circuits; On-board diagnostics & trouble reporting circuits
- Messaging: Built in tones, standard messages for different announcements, custom messages available

SAFEPTH alerts employees in all types of emergencies in various occupancies, including corporate campuses, educational facilities, industrial plants, warehouses, retail stores, and healthcare facilities.



# Facility communications system

Eaton's SAFEPATH (SP40S) is a supervised, in-building communications system with 24 VDC battery backup. The SP40S integrates with fire alarm systems and provides full control of building audible and visual notification appliances. This single channel system is capable of delivering 40 watts of supervised high fidelity audio power and 2 amps of supervised 24 VDC synchronized strobe power. It comes standard with an on-board digital voice messaging system with 8 standard messages, a hand-held microphone, power supply/ battery charger and numerous additional features.

SAFEPATH is expandable to 5280 watts utilizing the SPB-80/4 (80 watts and 4 amps of strobe power), the SPB-160 (160 watts) or SPB-320 (320 watts) supervised audio power boosters. All models are available in 115 VAC or 220 VAC.

## Voice evacuation

- 8 digitally pre-recorded voice messages
- Live microphone override
- Selectable pre-tones for messages
- Supervised NAC speaker and strobe circuits

## Paging

- Easily interfaces with most existing phone system page port
- Automatically mutes BGM
- Frequency response 275–6.5kHz
- Night ringer or security alert connection

## Background music

- Capable of broadcasting from a supplied background music (BGM) source
- Unique supervision method allows for full system supervision even during background music

- Line level input for music source
- Frequency response 100Hz–15KHz

## Strobe inputs and activation

- 2 Amps of 24 VDC supervised strobe power with built-in Wheelock sync protocol. Power limited.
- Strobe output is selectable for control of Wheelock sync protocol or non-sync operation
- Strobe terminals have pass-through capability for Wheelock sync or non-sync operation
- Any of the 8 messages can be dip switch selected to activate strobes
- Microphone activation can be dip switch selected to activate strobes
- Auxiliary activation (remote microphone) can be dip switch selected to activate strobes
- 24 VDC supervised and synchronized strobe power can be expanded to meet the requirements of the installation via connecting to optional Wheelock power boosters

## Speaker output

- 40 watts of supervised audio power
- Speaker outputs: 25V or 70.7V power limited

## Power supply and batteries

- 24 VDC, 33AH max rechargeable battery back-up power circuitry
- Batteries can be housed in the enclosure. Up to two BAT-1212, 12 volt, 12 ampere hour batteries can fit in the enclosure. Actual battery size required will depend on speaker and/or strobe load. (Batteries are sold separately.)

# Expansion options and accessories



## Audio Boosters

Designed to provide additional supervised audio power for live voice, pre-recorded messages or background music (BGM)

- SPB-160: 160 Watt Supervised Audio Power Booster (two 80 watt circuits)
- SPB-80/4: 80 Watt Supervised Audio Power Booster with 4 amps of Supervised and Synchronized 24 VDC Strobe Power (two 2 amp circuits)
- SPB-320: 320 watt Supervised Audio Power Booster (four 80 watt circuits)



## Speaker Splitters

Supervised Speaker Audio Splitter (SP4Z-A/B)

- Provides for expansion of one zone to up to 2 zones of supervised speaker audio output in Class A
- Provides for expansion of one zone to up to 4 zones of supervised speaker audio output in Class B



## Volume Control

Supervised volume control (SP-SVC)

- Supervised volume control for use with UL Listed Life Safety Applications
- Up to 35 watts of 70.7 volt audio power input



## Remote Microphones & Telephone Paging

- SPRM Remote Microphone for use with SP40S
- SPRM-GP General Paging Microphone for use with SPB-80/4, SPB-160 and SPB-320
- SP4-RMX Remote Microphone for use with SP40S Expansion Module
- SP4-APS Addressable Telephone Zone Paging Speaker Splitter
- SP4-TZC Addressable Telephone Zone Paging Controller



## Power Supply

The Wheelock POWERPATH (PS-8-LP) is a supervised remote power supply/battery charger in a low profile cabinet that is used for supervision and expanded power driving capability of fire alarm Notification Appliance Circuits (NAC). The PS-8-LP is filtered and regulated and provides 8 amps of power distributed across 4 outputs. From installation to maintenance, the incorporated advanced features allow you to save equipment and labor costs.



## Manual Pull Station

Wheelock MPS non-coded Manual Pull Stations are constructed of high quality, die-cast metal for long lasting performance and may be mounted on a single gang backbox. Available in either single or dual action configurations for indoor or outdoor use with SPST contacts and terminal strip connections. The normally open contact will close when the pull station is activated and is rated for 30 VDC @ 1 amp and/ or 120 VAC @ 1 amp. The contacts are gold plated to avoid the risk of corrosion.



## Push Stations

Multi-purpose push stations (NPS) for manual activation of SAFEPATH systems are available in Blue, Green, Red, White and Yellow. Custom wording is available (e.g. Severe Weather, Medical Alert, Power Shut Down, Gas Release) for the Push Stations. For a complete list of the wording available for printing on the push stations, please refer to the NPS specification sheet.

Model numbers and additional information can be found on Eaton's product specification sheets.



# Intelligible communications

With the widest frequency response range available, our speakers provide crisp, clear voice messages

Clear, concise and intelligible voice messages that communicate how people should respond in an emergency are critical for life safety. At Eaton, we understand that you need a solution that not only meets your customer's intelligibility and reliability requirements but also provides overall system cost savings. From Wheelock high fidelity speakers and speaker strobes for indoor applications to WAVES High Power Speaker Arrays for wide-area mass notification, Eaton provides a variety of audible and visual options that can connect to SAFEPATH for broadcasting alerts.

"The wider frequency response allows speakers to reproduce frequencies closer to the original sound, improving the clarity and comprehension of the intended message."

National Fire Protection Association  
NFPA 72

# Audible & visual notification products



## Exceder LED high fidelity speakers & speaker strobes

### High fidelity sound output

- Efficient design for high intelligibility at minimum wattage
- Frequency range: 300 to 8000 HZ—widest range in the industry

### Energy efficient

- Industry's lowest current draw
- Fewer power supplies required, smaller wire gauge, reduced wire runs

### Low profile design

- One of the smallest footprints with sleek, modern aesthetics

### Amber lens & special lettering available



## EH high fidelity speakers & speaker strobes

### High fidelity sound output

- Efficient design for high intelligibility at minimum wattage
- Frequency range: 300 to 8000 HZ—widest range in the industry

### 6 Field selectable settings in 1 device

### Easy to install

- Low profile design incorporates speaker mounting plate for faster and easier installation



## Cluster speaker systems

Wheelock cluster speakers were designed for ceiling or wall-mount applications in high ambient noise environments for wide-area coverage. Depending on model, 2, 3 or 4 horn loud speakers are available with or without strobe. Colored lens and weatherproof models are also available.

- STH cluster speakers
- STH weatherproof cluster speaker
- STH-MCCH cluster speaker
- STH-4R24MCC110R



## WAVES wide-area outdoor MNS

### HPSA-7100-R integrates directly to SAFEPATH

- Easily expands emergency communications to outdoor areas

### Industry-leading voice intelligibility

- Advanced amplification system design penetrates the atmosphere at a narrow band, focusing the beam directly at the audience for better sound pressure and higher intelligibility
- Equalized intelligibility—broadcast messages as clearly at 2000 ft. as at 100 ft.
- Directing sound where you need it—omni-directional and directional speaker coverage available
- Energy- and cost-efficient advanced amplification system

### Life safety standards:

- TUV Certification: UL/CSA/EN 60950-1
- CE Mark



## Colored lens strobes and speaker strobes

From Exceder LED to the E and RSS product lines, a variety of amber and colored lens strobes and speaker strobes are available.

- Strobes can be synchronized with SAFEPATH, Wheelock's DSM Sync Modules, and PS power supplies
- Combination speaker strobes available for voice messages and visual alerting
- Depending on model, four strobe lens colors include amber, blue, green and red
- Special lettering is available

Model numbers and additional information can be found on Eaton's product specification sheets.

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