



LIFE SAFETY & INCIDENT MANAGEMENT

Submittal Guide

EST3X

Networked intelligent life safety with voice audio



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LIFE SAFETY & INCIDENT MANAGEMENT

Project: _____

Contact: _____

Date: _____

Thank you for giving us the opportunity to provide this submittal for an EST3X Life Safety System. EST3X represents some of the most technologically advanced innovations the life safety industry has ever seen – innovations that will make your building and its occupants safe and secure.

This guide provides a summary of these innovations and includes a comprehensive presentation of related system components and devices. Products we are submitting for your consideration are indicated by a checkmark in the margins of the pages that follow.

More detailed information can be found in individual data sheets dedicated to each product. All these sheets, along with guide specifications and other useful product information, are available electronically at www.edwardsfiresafety.com.

Thank you for giving us the opportunity to provide this submittal. Please do not hesitate to contact us should you require further information.

EST3X
Head End

Initiating
Devices

Notification
Appliances

Hazardous Location
Devices

Door Holders
& Relays

Submittal Guide

EST3X

Networked intelligent life safety with voice audio



EST3X Submittal Guide

Intelligent fire alarm solutions for small buildings

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E85005-0134

Wiring diagrams provided herein are for information and reference only and are not to be used for installation purposes. Consult the appropriate installation documents for wiring and configuration details.

This guidebook is for information only and is not intended as a substitute for verbatim legislated requirements. For authoritative specifications regarding the application of life safety, security, and access control systems, consult current editions of applicable codes and standards. For authoritative interpretation of those codes and standards, consult your local authority having jurisdiction.

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EST3X

Life Safety Solutions



EST3X represents the latest generation of life safety control panels for mid to large sized applications. With large multi-message displays and innovative controls, intuitive interfaces, and bold colored cabinets — these systems capture the imagination, and catch the eye. But behind the LCD display is where they really shine.

New microprocessors and chipsets take full advantage of the latest advances in computing technology, leading to smarter, faster, higher-capacity processing and more efficient designs. EST3X's patented Voltage Boost™ technology, for example, delivers consistent voltage – even at low battery power – resulting in lighter cable requirements and/or longer runs. That saves time and money.

High performance processing also leads to powerful networking features and versatile digital audio functionality. The wide range of EST3X configurations include stand-alone operation, networking with up to eight nodes, or integration with an EST3 network comprising as many as 64 nodes — complete with mass notification capabilities and display of security events.

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EST3X
Head End

Initiating
Devices

Notification
Appliances

Hazardous Location
Devices

Door Holders
& Relays



See what's
possible now.



Detection & Alarm Since 1872.

Mass Notification • Smoke Detection • Graphical Monitoring and Control • Instant Messaging • Aspirating Smoke Detectors • Industrial Signaling • Voice Evacuation • Smoke Control • Fire Suppression • Intercom • Timekeeping • CO Detection • Heat Detection • Audible & Visible Signaling • Voicemail Messaging • Duct Smoke Detection • Giant Voice • Electronic Signage • Area of Rescue

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EST3X Head End

Application flexibility is where EST3X's leading edge computing power is put to best use. This generation of control panels is equally at home as the center of a simple single-building standalone system as it is when part of a sophisticated life safety network serving thousands of points across multiple buildings. Optional voice evacuation bridges the gap left by other mid-range systems, and makes these panels a cost-effective solution for most applications.

Strong Networking

Networking is among EST3X's strong suits. Highly efficient RS485 connectivity, plus fiber-optic communications deliver faster response times and more sophisticated diagnostic capabilities, while cost-effective remote annunciation solutions keep basic monitoring and control always within reach.

A simple EST3X network can comprise up to eight nodes – enough to serve the needs of most campuses and larger buildings. Its ability to join an EST3 network with as many as 64 nodes extends EST3X's reach into mass notification applications, security reporting, as well as making it an ideal candidate for retrofits.

High Capacity Audio

EST3X features a full eight channels of integrated digital audio with up to two minutes of on-board programmable message storage. An optional high quality paging microphone gives live access to local, as well as remote, audio functions. Auxiliary inputs are available for mass notification operations, and ZA Series amplifiers may be mounted directly on the EST3X rail assembly.



An optional paging microphone provides local, as well as remote, audio functions.

Seamless System Integration

EST3X borrows much from its larger sibling, the venerable EST3 Life Safety Platform. And for good reason: by integrating with the EST3 networking and computing environment, an EST3X control panel can serve as a cost-effective remote node for extinguishing, smoke control, or even mass notification

functions — all within the same compliance framework. Retrofits and expansions benefit enormously from this arrangement, but programming and equipment management for new installations is equally efficient as a result of these shared resources. EST3X will accommodate up to three EST3 modules on its own rail assembly, giving it access to such proven EST3 successes as zoned amplifiers, conventional device circuits, modem communicators, and RS-485 functions. Meanwhile, installers familiar with EST3 configuration will find that the two systems share many of the same programming and diagnostic conventions.

Local and Remote Annunciation

Up to 30 R-Series LCD, LED annunciators and driver interface cards may be configured for each node on the EST3X network. No additional nodes are required for annunciation purposes.

In addition, EST3X supports EST3 network annunciators, while GCI and GCIX driver interface cards provide cost-effective graphic annunciation solutions. And all annunciator inputs and outputs are easily programmable through the rules and labels function of EST3X's Software Definition Utility.



Up to 30 R-Series annunciators may be configured for each node on the EST3X network.

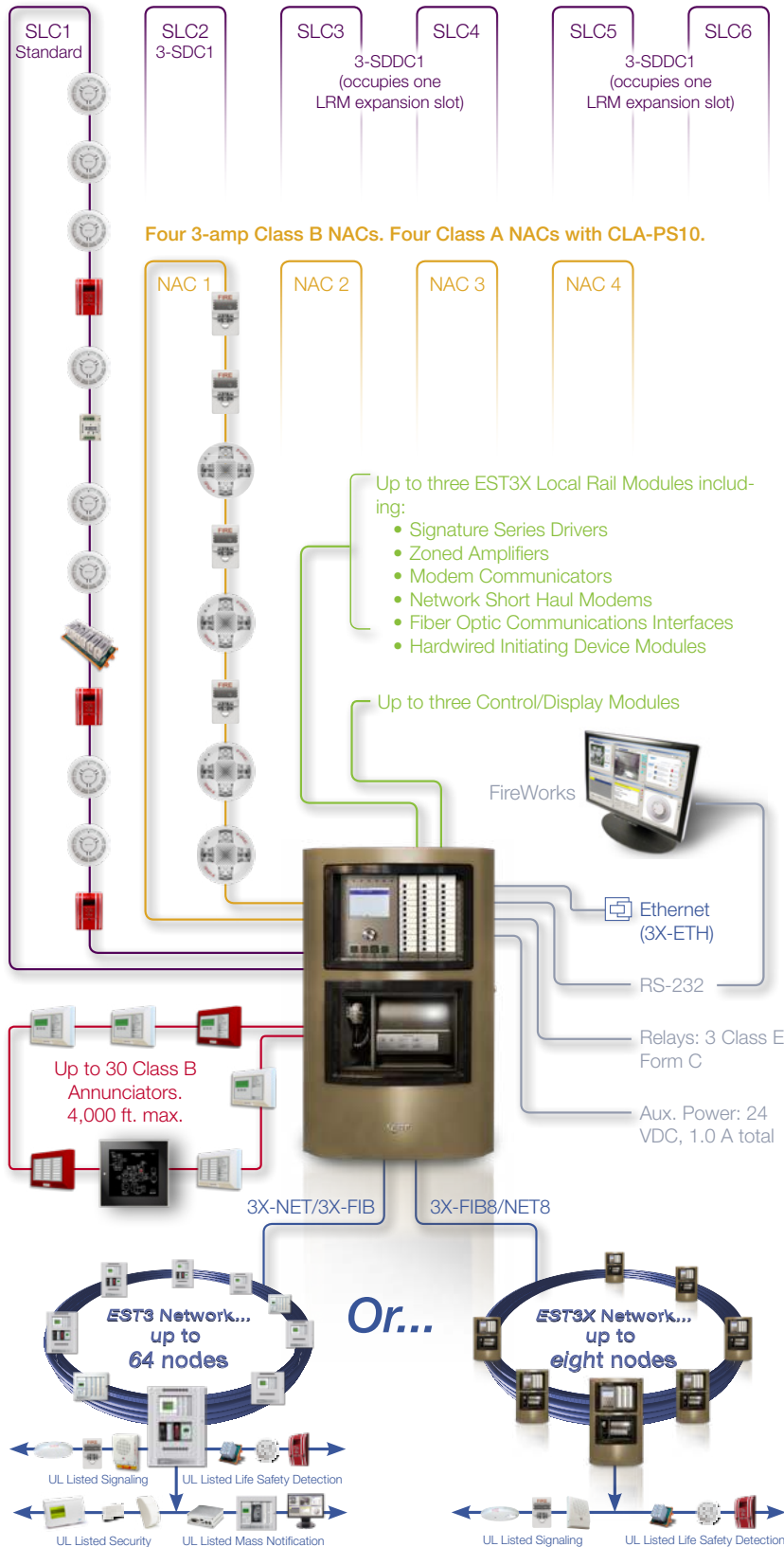
Power to Count On

EDWARDS' patented Voltage Boost™ technology delivers a consistent 22.5 Vdc – even at low battery power. This means lighter gauge cable can be used for equivalent distances compared with conventional power supplies, or longer wire runs on the same gauge cable. Either way, this breakthrough technology saves time and equipment costs, making EST3X not only a high-performance solution — but a cost-effective one as well.

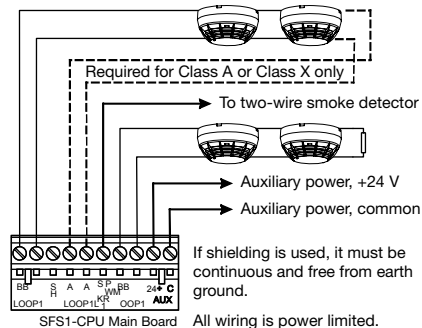
EST3X's four on-board Notification Appliance Circuits are fully synchronized to UL 1971 standards — without the need for external modules or other electronics. It's ample 10-amp power supply is finely tuned to get the most out of EDWARDS' widely-acclaimed low profile Genesis notification appliances.

System Layout and Wiring

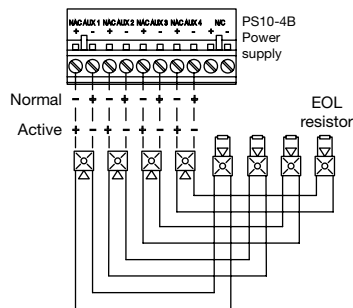
Up to six intelligent analog loops hosting as many as 250 devices each.



Signature (initiating) Data Circuit



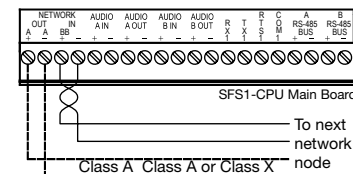
Notification Appliance Circuits



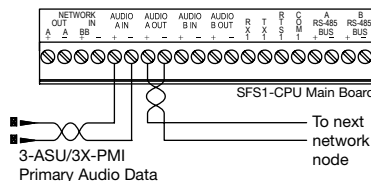
Wiring is supervised and power limited.

TB2 terminal marking indicates signal polarity when the circuit is not active. Polarity reverses when the circuit is active. For proper circuit supervision, break the wire run at each notification appliance and install the EOL resistor at the end of the circuit.

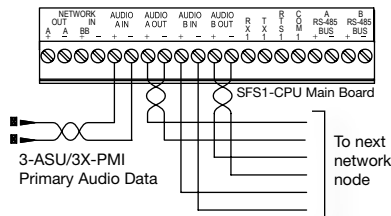
Network data circuit



Network data circuit, Class B audio

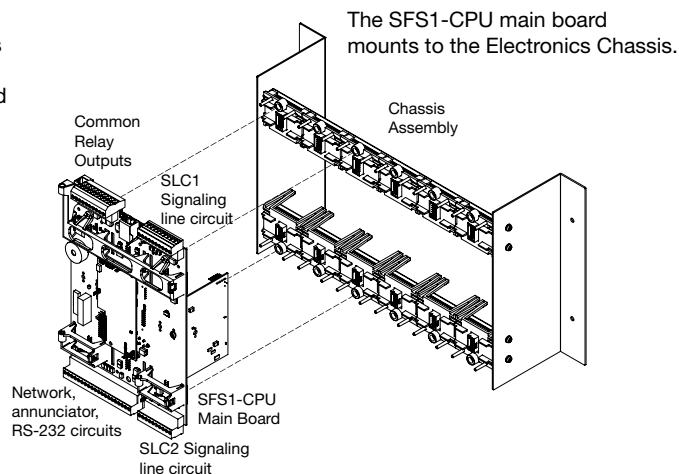
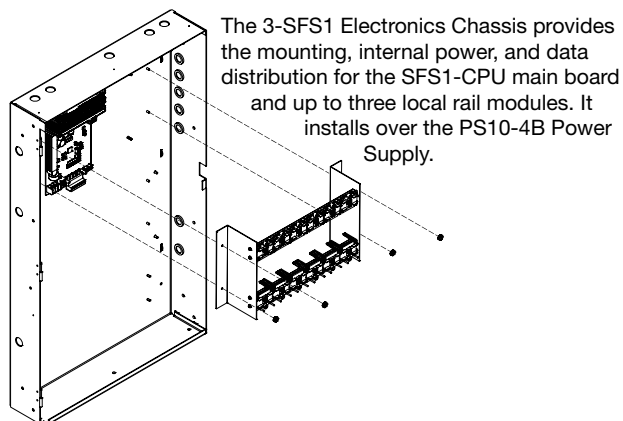


Network data circuit, Class A or Class X audio

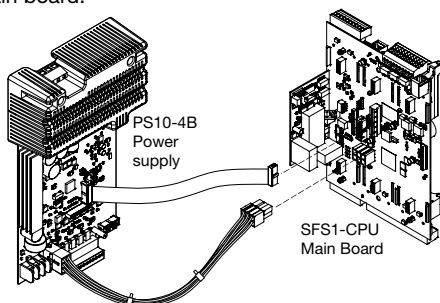


Assembly

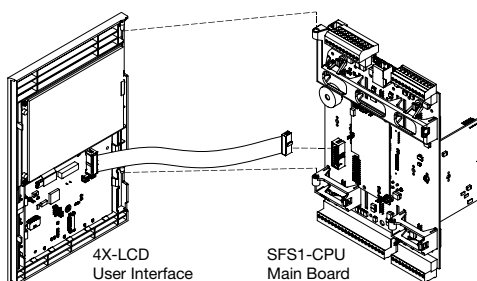
EST3X systems are designed for quick assembly and easy access in the field. Components are modular and require no special tools to service or replace.



Two cables connect the PS10-4B Power Supply to the back of the SFS1-CPU main board.

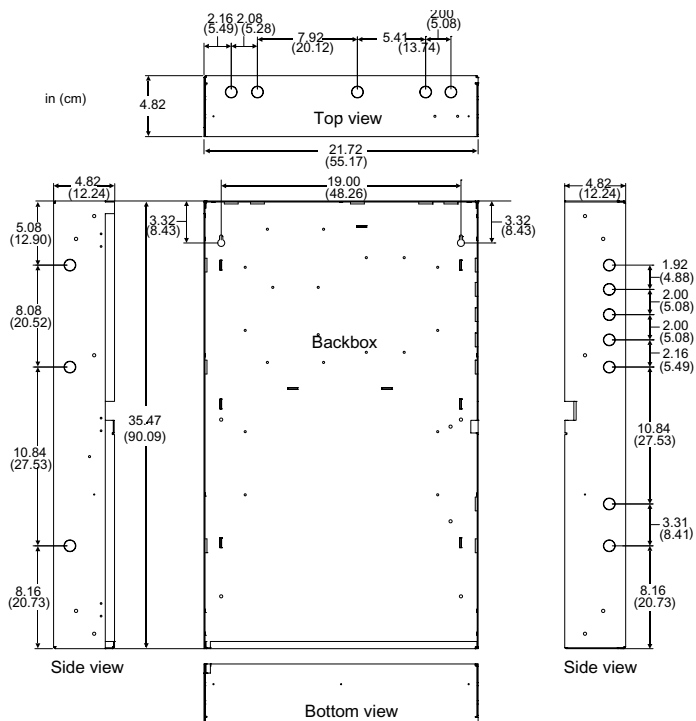


The 4X-LCD assembly mounts to hinge pins on the CPU and connects with a single ribbon cable.



Dimensions

The backbox is designed for semiflush or surface mounting. Conduit and nail knockouts, keyhole style mounting holes, and wide wiring troughs facilitate quick installation.



Note: Add 0.25 in (0.64 cm) to height and width dimensions to allow for knockouts when framing in the backbox for semiflush mounting.

SUBMIT



Control Panels

Data Sheet E85005-0133

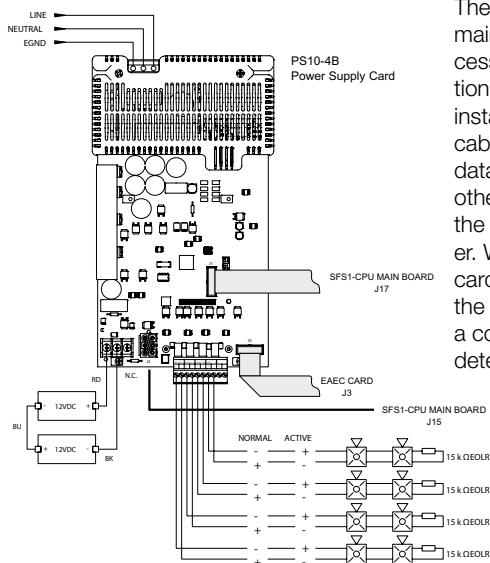
EST3X control panels come complete with user interface, CPU, one loop with second loop expansion, three option card slots, four Class B NACs, universal 110/220v 10 amp power supply. Specify 3-SDC1 for second loop.

Model	Door Color	Language
3x-SFS1B	Bronze	English
3x-SFS1R	Red	English
3x-SFS1Bi	Bronze	Selectable
3x-SFS1Ri	Red	Selectable



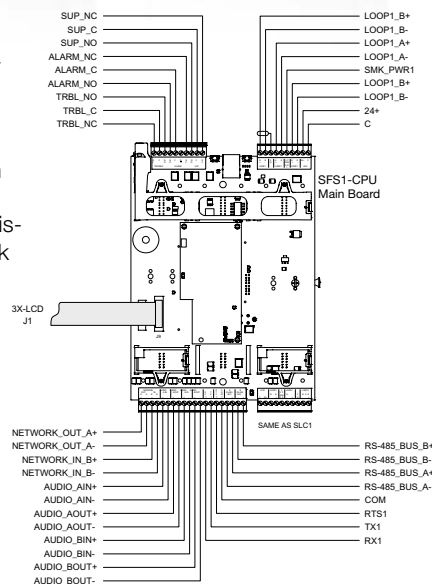
PS10-4B Power Supply Card

The PS10-4B Power Supply Card provides the required power and related supervision functions for the control panel, as well as filtered, regulated power to the rail chassis modules. It also provides 24 VDC for operating ancillary equipment.



SFS1-CPU Main Board

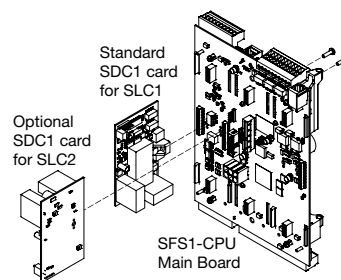
The SFS1-CPU main board processes all information from modules installed within the cabinet as well as data received from other panels over the network data riser. When a network card is installed, the CPU employs a command set to determine its type.



Option Cards

3-SDC1 Signature Data Circuit Card

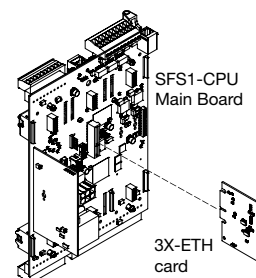
The 3-SDC1 Signature Data Circuit Card provides one Class B, Class A or Class X signaling line circuit (SLC1) that supports up to 125 Signature Series detectors and 125 Signature Series module addresses. The module also provides a connection for powering conventional two-wire smoke detector circuits on Signature Series modules. EST3X comes standard with one 3-SDC1 card installed as SLC1. An optional second 3-SDC1 card may be installed to provide SLC2, thus doubling system signaling line capacity.





Ethernet Adapter Cards

The SFS1-CPU supports one of the following three adapter cards...



3X-ETH1 Ethernet Adapter Card

The 3X-ETH1 adapter card provides a standard 10/100 Base-T Ethernet network connection for panel programming, diagnostics, status monitoring and connection to FireWorks Graphical User Interface.

3X-ETH1 Ethernet Adapter for programming and diagnostics remotely.

Data Sheet E85005-0133

3X-ETH2 Ethernet Adapter Card

The 3X-ETH2 adapter card provides all the function of the 3X-ETH1 plus the added capability of communicating to compatible digital alarm receivers. Please refer to the *EST3X UL Compatibility List* for the latest compatible receivers.

3X-ETH2 Ethernet Adapter for Digital Alarm Receivers, programming, and diagnostics.

Data Sheet E85005-0133

3X-ETH3 Ethernet Adapter Card

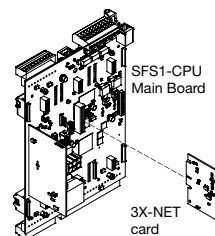
The 3X-ETH3 adapter card provides all the function of the 3X-ETH2 plus the added capability of sending email messages as well as SMS text messages by means of email-to-text.

3X-ETH3 Ethernet Adapter for email, Digital Alarm Receivers, programming, and diagnostics.

Data Sheet E85005-0133

3X-NET Network Adapter Card

The 3X-NET network adapter card gives an SFS1-CPU main board the ability to network with 64 nodes on an EST3 network. The card supports Class B, Class A and Class X wiring. The 3X-NET adapter card provides two independent RS 485 circuits: one for network data communications and one for digital audio communications.

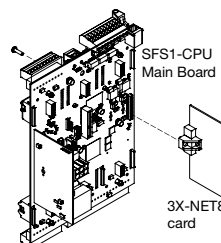


3x-NET RS485, eight node max. Class A, X or B network. Use on 3-SFS systems only.

Data Sheet E85005-0133

3X-NET8 RS-485 Network Card

The 3X-NET8 RS-485 network card gives an SFS1-CPU main board the ability to network through dedicated copper wire up to eight EST3X control panels. The card supports Class B, Class A or Class X wiring. All networked panels must have a 3X-NET8 network card installed.

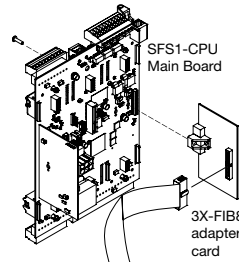


3x-NET8 RS485, eight node max. Class A, X or B network. Use on 3-SFS systems only.

Data Sheet E85005-0133

3X-FIB8 Fiber Optic Network Card

The 3X-FIB8 fiber optic network module gives an EST3X panel the ability to network up to eight panels. Class B, Class A and Class X connections are supported. The module consists of the adapter card and electronics card. The 3x-FIB8 supports SMXLO2 Series single mode fiber optic transceivers, as well as MMXVR multimode transceivers. It provides terminals for connecting a 24 VDC backup power source to maintain data transmissions in the event the panel is powered down. Note: All networked panels must have the 3X-FIB8 network card installed.

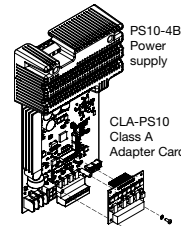


3x-FIB8 Fiber, eight node max. Uses MMXVR, SMXH12, SMXLO2. Use on 3-SFS systems only.

Data Sheet E85005-0133

CLA-PS10 Class A Adapter Card

The CLA-PS10 Class A Adapter Card is an optional card used to convert the four Class B notification appliance/auxiliary power circuits on the power supply card to Class A.



CLA-PS10 Class A Adapter, PS10 NAC's

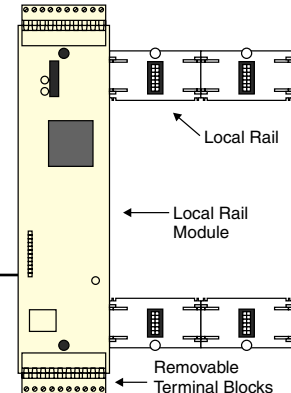
Data Sheet E85005-0133

SUBMIT



Local Rail Modules

Up to three Local Rail Modules (LRMs) conveniently mount to the EST3X chassis assembly, away from high voltages. Each module features removable terminal blocks and simple plug-in connectors. LRMs include Zoned Amplifiers, Signature Loop Controllers, Conventional Hardwired Modules, and Off Premise Signaling Modules. Control Display Modules are mounted on the local rail modules.



Signature Driver Controller Modules

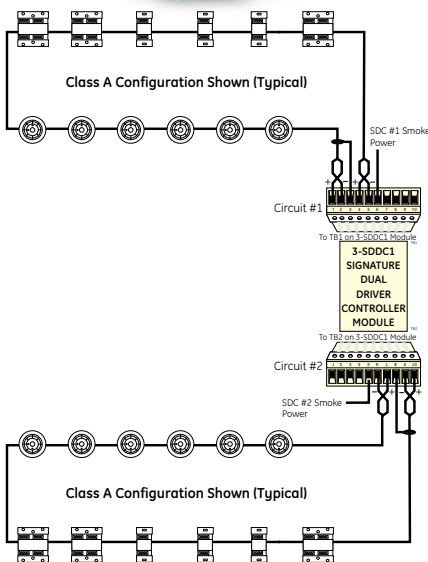


The 3-SSDC1 and 3-SDDC1 Signature Driver Controller modules provide an intelligent interface between the SFS1-CPU module and Signature Series devices. Each module contains its own microprocessor used to coordinate, process and interpret information received from and sent to Signature devices. Power and communications is received directly from the control panel rail assembly. The 3-SSDC1 Single Signature Driver Controller module supports one Signature Data circuit, while the 3-SDDC1 Signature Dual Driver Controller module supports two Signature circuits. Both modules occupy one rail space in the fire alarm control cabinet and provide removable field wiring terminals to aid installation.

Innovative design gives the 3-SSDC1/3-SDDC1 and Signature devices truly "distributed intelligence". Signature detectors and modules have their own on-board microprocessor communicating with the loop controller in a fully digital communication format. This increases the accuracy of the information coming to and from the loop controller by reducing the effects of capacitance and noise.

With decentralized intelligence much of the decision making moves from the loop controller to the devices. Advanced fire detection algorithms processed within the Signature devices effectively end unwanted alarms. Environmental compensation and multiple sensing element decision making operations are resident in the devices. Intelligent devices allow the Signature Controllers to execute communication and system functions with greater speed and low baud rates, increasing the accuracy of information transmitted between the loop controller and devices.

To enhance survivability of the system the 3-SSDC1/3-SDDC1 supports a standalone mode for Signature devices. Two catastrophic failure modes are supported. If the SFS1-CPU fails, the loop controller will continue to poll its devices. If an alarm is detected it will be sent on the local rail communication bus and received by other local rail modules. A common alarm condition throughout the panel will result. If the local rail module (3-SSDC1/3-SDDC1) fails, and a device (smoke or module) detects an alarm, specialized circuitry will make the node aware of the alarm condition. SFS1-CPU will communicate the alarm condition to the rest of the network. Having multiple redundant modes is paramount in a life safety system.



☐	3-SSDC1	Single Signature Driver Controller, c/w one 3-SDC1	Data Sheet E85010-0129
☐	3-SDDC1	Dual Signature Driver Controller, c/w two 3-SDC1s	Data Sheet E85010-0129
☐	3-SDC1	Signature Device Card - upgrades a 3-SSDC1 to a 3-SDDC1	Data Sheet E85010-0129
☐	3-SDC1-HC	Signature Device Driver High Capacity Card	Data Sheet E85010-0129



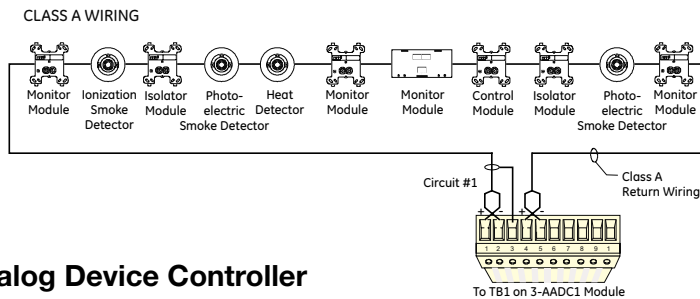
3-AADC1

Addressable Analog Module

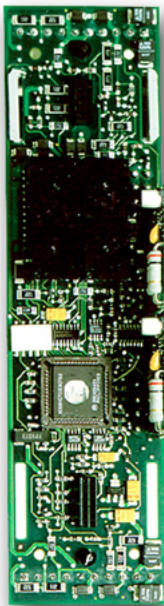
Data Sheet E85010-0128

Addressable Analog Device Controller

The 3-AADC1 Addressable Analog Circuit Module is a local rail module used on the EST3X system. The module requires one connection on the rail chassis. The module can support 99 addressable analog sensors and 99 addressable modules. The controller also features a hinged front panel for a Control Display Module, available in a variety of LED and/or switch configurations.



Initiating Device Circuit (Hardwired) Module



3-IDC8/4

Initiating Device Circuit Module

Data Sheet E85010-0061

The 3-IDC8/4 is ideal for retrofit projects where existing wiring, smoke detectors and signals may not need replacing.

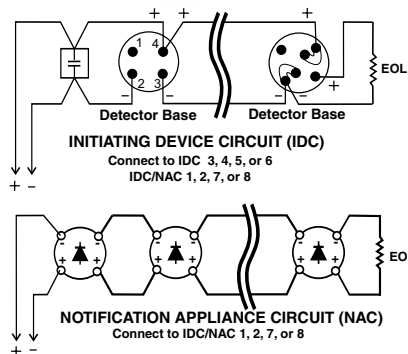
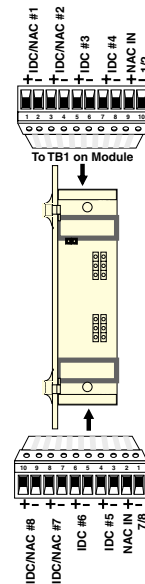
Flexibility built right into the IDC module allows connection of normally open contact devices, and traditional 2-wire smoke detectors.

The 3-IDC8/4 also configures for use with N.O. contacts and supports supervised supervisory and monitor circuits with latching or non-latching operations. When the monitor operation is used with the non-latching function, the circuit serves as a supervised event follower. This efficiently covers critical fan and damper operations. Circuits can annunciate on the 3-LCD, control display modules, or at any other display device on the network.

All circuits may be programmed for non-verified or verified smoke operation. Ranges include open circuit, shorted condition, and high and low impedance (relative to the main impedance setting). This allows the use of various detectors of similar impedance, as well as 4-state European alarm circuit operation.

Four of the eight 3-IDC8/4 circuits are convertible to Class B notification appliance circuits. The circuits employ traditional reversing polarity operation for polarized bells, horns, and strobes.

Notification appliance circuits are arranged in pairs. Each pair distributes 3.5 Amps at 24 Vdc from the local rail or a single riser. Riser sources supported include 24 V @ 3.5 A, which can be pulsed (temporal pattern) for audible signals, or up to 70 Vrms @ 100W audio source for speakers.



SUBMIT



Off Premise Signaling Module

The 3-OPS supports three separate off premises signaling modes of operation:

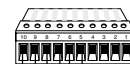


'Old' style reverse polarity operation has only a single reversed polarity output. In the normal state the output is 24 Vdc current limited to 6 mA. In the alarm state the polarity reverses. Should the EST3X panel go into trouble from the normal state, the voltage is removed from the output terminals of the 3-OPS. This change will be detected by the central station as a trouble. Alarm always has priority over trouble. Trouble relay contacts must be configured for normally-closed operation.



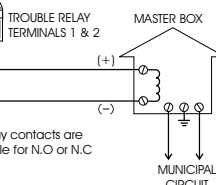
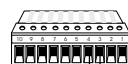
ALARM Polarity Reverses
TROUBLE Power off
ALARM has priority

'New' style reverse polarity operation allows the 3-OPS to output three independent reversing polarity signals. These are alarm, supervisory, and trouble. In each case an active condition causes the terminal output voltage to reverse. Should the central station detect a loss of voltage, the condition is due to line failure. When configured for "new" style operation, a set of trouble contacts is available.



TROUBLE RELAY
TERMINALS 1 & 2
(+) ALARM
(-) TROUBLE
(+) TROUBLE
(-) SUPERVISORY

City Tie connection. In this configuration the 3-OPS has terminals for a local energy master fire alarm box. The module operates into a 14 ohm coil and supervises the city tie connection for open conditions. Trouble relay contacts are configurable for normally-open or normally-closed.



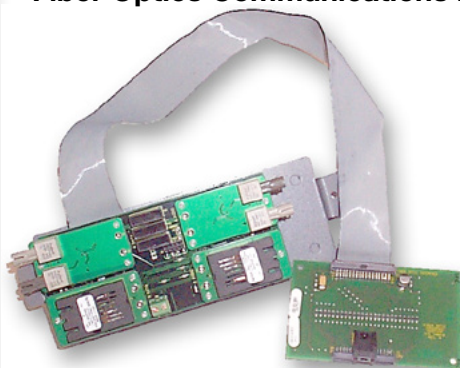
Note: Trouble relay contacts are configurable for N.O or N.C

3-OPS

Off Premise Signaling Module

Data Sheet E85010-0075

Fiber Optics Communications Interface



Fiber optic communications provide a high level of immunity from electrical noise. Circuits are power limited and suitable for use through hazardous atmospheres. Fiber optic circuits also provide a high level of security and are resistant to the effects of moisture.

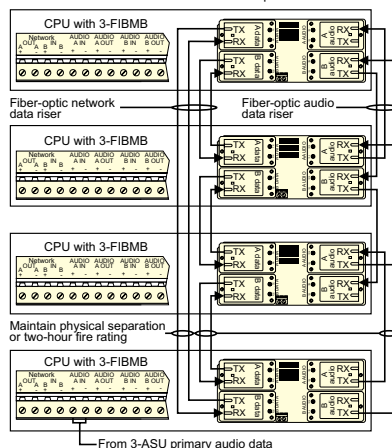
EST3X networks easily configure to single or multi mode fiber optic or combination fiber optic/copper networks using the 3X-FIB Fiber Optic Communications Interface and the appropriate fiber optic transceivers.

The 3X-FIB electronics card plugs right into the CPU. A

ribbon cable connects the 3-CPU directly to the 3X-FIB fiber interface card. The interface card mounts in the 1/2 footprint space in a chassis or enclosure.

The 3X-FIB supports from one to four single or multi mode transceivers. The SMXLO2 standard output single mode transceiver is suitable for distances up to approximately 8.7 miles (14km). The SMXHI2 high output single mode transceiver is available to span distances up to approximately 24 miles (40km). For multi mode applications, the MMXVR transceiver is suitable for distances up to approximately 8,000ft (2,400m).

3-CPU Class X network and audio fiber-optic connections



3X-FIB	Fiber Optic Communications Interface c/w 3-CHAS7/3-CAB5 mounting brackets	Data Sheet E85010-0131
SMXLO2	Plug-In standard output single mode transceiver for 3-FIBMB	Data Sheet E85010-0131
SMXHI2	Plug-In high output single mode transceiver for 3-FIBMB	Data Sheet E85010-0131
MMXVR	Plug-In standard output multi mode transceiver for 3-FIBMB	Data Sheet E85010-0131



Modem Communicator



The Modem Communicator is a two-way local rail module that performs a variety of off-premise communications functions for the EST3X system unavailable on any other system. The module has provisions for supervising two loop-start telephone lines. It features a modular jack for telephone line connections, as well as database download from a PC. The Modcom's configuration and firmware can also be updated from any network node.

Modcom series modules occupy a single local rail space and can be mounted in any node on the network. Any EST3X Control/Display module can be mounted on the face of a Modcom series module. Power for the Modcom is supplied by the EST3X system supply.

The Modcom provides an enhanced level of survivability in the event of a network CPU failure by notifying the Central Monitoring Station of the failure and entering a degraded mode of operation. In degraded mode, the Modcom can transmit a default fire alarm message during a fire alarm condition.

Two versions of the Modcom are available:

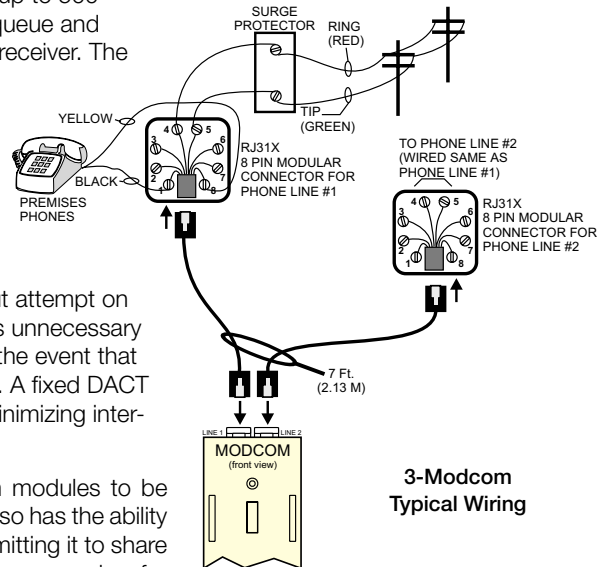
3-MODCOM - This internal modem is a V.32bis 14.4K baud full duplex modem. The modem permits the remote upload and download of system data via a telephone line.

3-MODCOMP - In addition to all modem and dialer (DACT) functions of the 3-MODCOM, the 3-MODCOMP can dial directly into paging systems using Telelocator Alphanumeric Protocol (TAP). Alphanumeric system data can be sent to a single pager or groups of pagers. Some pager services can forward messages via e-mail and Fax.

Each Modcom can buffer up to 500 events in its event queue. It reviews all active events in the queue and identifies the highest priority event and dials the associated receiver. The Modcom then identifies all other events in the queue that are destined to the same receiver as the highest priority event. All event information for that receiver is then transmitted. The next high priority event is identified and the process repeated.

The Modcom series has been designed for installation on the same phone lines with other devices such as faxes and answering machines. The module makes its first dial out attempt on either of the two phone lines that is not in use. This prevents unnecessary interruption of calls in progress by the line seizure relays. In the event that both lines are busy, the module seizes one of the busy lines. A fixed DACT testing time can be set at an off-hour, e.g. 2:00am, again minimizing interruptions.

The answering machine override feature permits Modcom modules to be installed on a standard telephone line. The Modcom series also has the ability to detect Type 2 and Type 3 distinctive ringing patterns, permitting it to share its phone lines with other devices and still have a unique phone number for incoming calls.

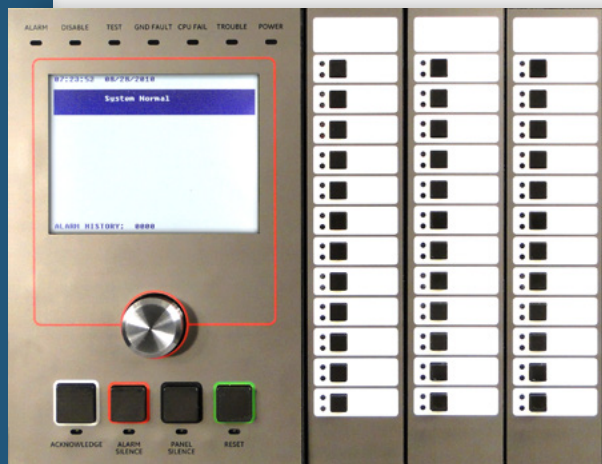


3-MODCOM	Modem/Dialer (DACT) version	Data Sheet E85010-0107	☐
3-MODCOMP	Modem/Dialer (DACT) w/TAP Protocol	Data Sheet E85010-0107	☐

SUBMIT



Control and Display



EST3X sets a new standard in front-panel life safety control interfaces. Its exclusive SpeedTouch™ rotary control offers nimble forward and back scrolling through events and options, while a mere tap of the control selects items with fluid motion. Its extra-large backlit display reveals up to eight concurrent messages, and switch/LED strips provide abundant space for meaningful labels. And for end users, large tactile control buttons instill confidence and promote quick response when time is of the essence.



The main display mounts to the CPU, while control/display modules mount to local rail modules on the inner chassis. Simple-to-understand multi-color LEDs and switches help the emergency user display information and execute system commands with confidence.

Control Display Modules

Data Sheet E85005-0133

EST3X Control Display modules provide the emergency user with the simplest of interfaces: lights and switch controls. Control Display Modules install over local rail modules.

	4x-12/S1GY	12 Switches, 1 Green, 1 yellow LED per switch.	
	4x-12/S1RY	12 Switches, 1 red, 1 yellow LED per switch.	
	4x-12SR	12 Switches with 12 red LEDs.	
	4x-24R	24 red LEDs.	
	4x-6/3S1G2Y	Six groups of 3 switches with 1 LED each.	
	4x-6/3S1GYR	Six groups of 3 switches with 1 LED each.	
	4x-4/3SGYWR	Four groups of 3 switches and 4 LEDs. green, red, yellow and white LEDs.	

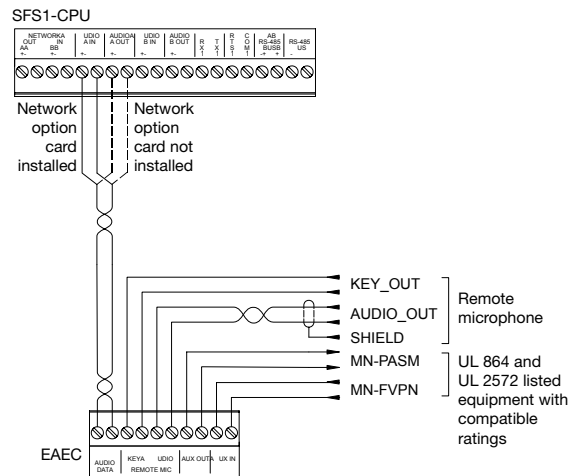


Network Audio

Configuring EST3X audio is a matter of selecting components for installation in standard fire alarm cabinet assemblies. EST3X uses zoned amplifiers. This reduces wire runs and space needs at a central location. Audio control equipment and zoned amplifiers use the same system power supplies as fire alarm components. All these components are supported by a common standby battery. Where multiple nodes make up the system, a single pair of wires carries eight channels of digital audio between nodes.

3X-PMI Paging Microphone Interface

The 3X-PMI Paging Microphone Interface provides controls for emergency voice/alarm communications. It consists of an audio mounting bracket, EAEC Emergency Audio Evacuation Controller card, audio enclosure, and paging microphone.



3X-PMI

Paging Microphone Interface

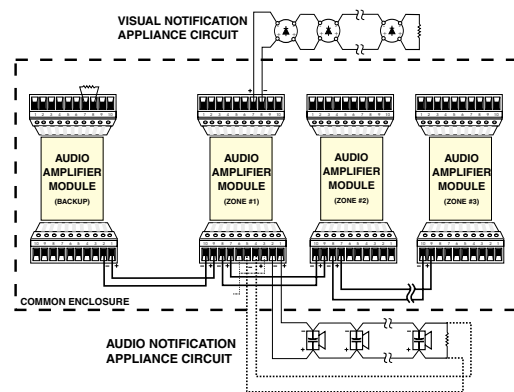
Data Sheet E85005-0133

Zoned Audio Amplifiers



EST3X audio amplifiers decode and re-expand the eight multiplexed audio signals on the network audio riser. Under command of the network, one of the available eight signals is selected to be distributed over the speaker circuit. Command and control signals for the amplifier are sent and received via the network data riser in response to programming.

Amplifiers are available in 20 or 40 watt versions, with supervised, power limited 25 Vrms or 70Vrms outputs. The amplifier output is wired to a single speaker zone. Each amplifier has a 1 KHz temporal tone generator used as evacuation signal in the event of a fault with the network audio circuit. In the event of an on-line amplifier failure, a standby amplifier may be configured for automatic replacement of any on-line amplifier configuration. 20 and 40 watt amplifiers also provide an independently controlled supervised, power limited 24 Vdc notification appliance circuit rated at 3.5 amps. All field wiring connections are made via plug-in connectors.

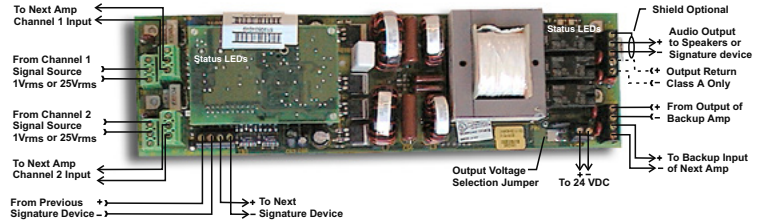


3-ZA20A	20 Watt Zoned Amplifier w/Class A/B Audio & Class A/B 24 VDC outputs	Data Sheet E85010-0057
3-ZA20B	20 Watt Zoned Amplifier w/Class B Audio & Class B 24 VDC outputs	Data Sheet E85010-0057
3-ZA40A	40 Watt Zoned Amplifier w/Class A/B Audio & Class A/B 24 VDC outputs	Data Sheet E85010-0057
3-ZA40B	40 Watt Zoned Amplifier w/Class B Audio & Class B 24 VDC outputs	Data Sheet E85010-0057



Intelligent Audio Amplifiers

Signature Series amplifiers are high-efficiency switch mode audio amplifiers available in 30 and 50 watt sizes. Amplifiers have two input channels supporting dual channel or single channel audio applications. Signature amplifiers are ideally suited for distributed audio applications and small centrally banked applications. The audio output is configurable as 25V_{RMS} or 70V_{RMS} in Class B or Class A wiring configurations. Speakers can connect directly to the output of the amplifier or the amplifier output can run as an audio riser to Signature modules where speaker zone selection is made. Each amplifier has a built-in 1kHz tone generator and provision for a back up amplifier. On-board status LEDs provide quick visual indication of amplifier status.



☐	SIGA-AA30	30 Watt Intelligent Audio Amplifier	Data Sheet E85010-0089
☐	SIGA-AA50	50 Watt Intelligent Audio Amplifier	Data Sheet E85010-0089

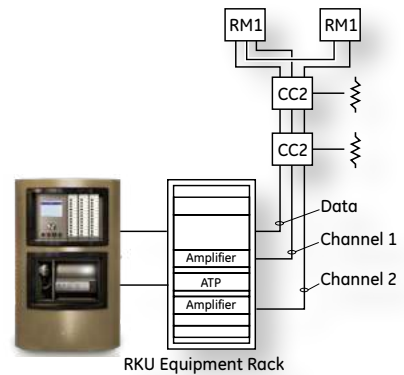
Banked Audio Amplifiers



Banked Amplifiers provide EST3X with economy audio configurations for single and some dual channel applications. Model 3-ZA20A/B Zoned Amplifiers at the EST3X control panel provide channel sources for banked amplifiers. 3-ZA20A/B amplifiers can select any of EST3X's eight audio channels as a signal source.

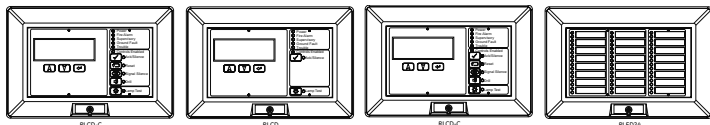
A special interface module, the 3-ATPINT, accepts analog audio signals at 25 or 70V_{RMS} from EST3X's Zoned Amplifiers and passes these signals to the 1B3125 and 1B3250 Audio Power Amplifiers via an Amplifier Terminal Panel (ATP). The 3-ATPINT mounts in the ATP.

The ATP Audio Terminal Panel interfaces one or two audio power amplifiers and monitors utility power, charges and supervises standby batteries, and provides switch-over to standby. The amplifier bank is monitored and controlled through Signature Series modules.



☐	EST3X	Central Banked Amplifiers	Data Sheet E85010-0085
☐	1B3125	Audio Power Amplifier — 125 Watts	Data Sheet E85010-0011
☐	1B3250	Audio Power Amplifier — 250 Watts	Data Sheet E85010-0013
☐	ATP	Amplifier Terminal Panel	Data Sheet E85003-2741
☐	3-ATPINT	ATP Interface Module	Data Sheet E85010-0085
☐	SIGA-RM1/MRM1	Riser Monitor Module	Data Sheet E85001-0535
☐	RKU	19-inch Equipment Rack	

Remote Annunciation



SUBMIT



EST3X
Head End

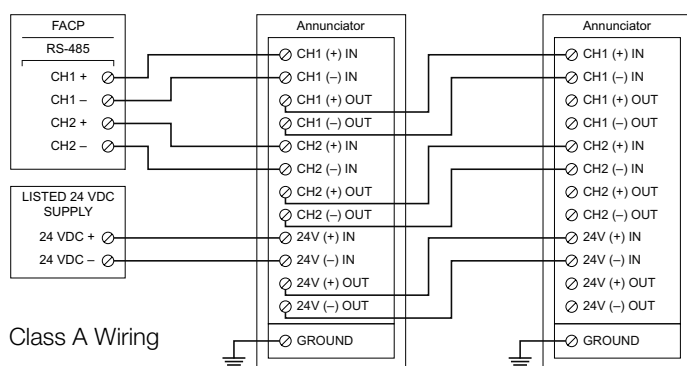
Initiating
Devices

Notification
Appliances

Hazardous Location
Devices

Door Holders
& Relays

R-Series Annunciators



Each EST3X node can accommodate up to 30 R-Series and graphic annunciators. R-Series Annunciators are high-performance devices that offers LCD or LED annunciation. Models are available with and without common controls.

R-Series annunciators and expanders are mounted on a standard 4-inch square electrical box, using the included mounting ring. They can also be surface mounted in locking steel enclosures. Three different enclosures are available.

A keyswitch and graphic annunciator interface is available for R-Series annunciator applications. The keyswitch enables or disables common controls. The graphic annunciator interface cards supports 32 LEDs and 16 switches on the graphic panel display.

Remote Annunciators

RLCD	LCD text annunciator without common controls. English.	Data Sheet E85005-0128	☐
RLCD-R	LCD text annunciator without common controls. English. Red.	Data Sheet E85005-0128	☐
RLCDF	LCD text annunciator without common controls. French.	Data Sheet E85005-0128	☐
RLCD-C	LCD text annunciator with common controls. English.	Data Sheet E85005-0128	☐
RLCD-CR	LCD text annunciator with common controls. English. Red.	Data Sheet E85005-0128	☐
RLCD-CF	LCD text annunciator with common controls. French.	Data Sheet E85005-0128	☐
RLED-C	16-pair LED zone annunciator with common controls. English.	Data Sheet E85005-0128	☐
RLED-CR	16-pair LED zone annunciator with common controls. English. Red.	Data Sheet E85005-0128	☐
RLED-CF	16-pair LED zone annunciator with common controls. French.	Data Sheet E85005-0128	☐

Remote Expanders

RLED24	24-pair LED zone expander with expander cable and zone card insert.	Data Sheet E85005-0128	☐
RLED24R	24-pair LED zone expander with expander cable and zone card insert. Red.	Data Sheet E85005-0128	☐

Enclosures

RA-ENC1	One-position enclosure for Remote Annunciator.	Data Sheet E85005-0128	☐
RA-ENC2	Two-position enclosure for Remote Annunciator and one Remote Expander.	Data Sheet E85005-0128	☐
RA-ENC3	Three-position enclosure for Remote Annunciator and two Remote Expanders.	Data Sheet E85005-0128	☐
LSRA-SB	Surface Mount Box - for single R Series annunciator.	Data Sheet E85005-0128	☐

Accessories

RKEY	Remote key switch on plate for enabling or disabling common controls.	Data Sheet E85005-0128	☐
27193-16	Electrical box, surface mount, white, single-gang, for RKEY.	Data Sheet E85005-0128	☐

SUBMIT



Network Accessories



Network Short Haul Modem

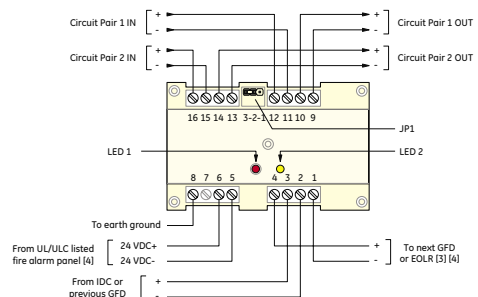
EST3X networks easily configure for use over existing copper telephone lines using the 3-NSHM Short Haul Modem Communications Interface. The 3-NSHM electronics card plugs into the SFS1-CPU Main Board. A ribbon cable connects the SFS1-CPU directly to the modem interface card. The interface card mounts to the control panel back box. No local rail space is used.

☐	3-NSHM1	Network Short Haul Modem, single modem connection	Data Sheet E85010-0113
☐	3-NSHM2	Network Short Haul Modem, two modem connections	Data Sheet E85010-0113



Ground Fault Detection Module

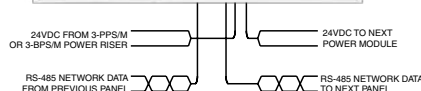
The GFD module is designed to detect ground fault conditions on either of two independent power or data circuits. Each circuit must be balanced with respect to ground. The module will detect when the resistance between any of the monitored conductors and earth ground drops below 10 K Ohms. Two LEDs are provided to indicate the conductor with the ground condition.



☐	GFD	Ground Fault Detection Module	Data Sheet E85010-0115
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Graphic Annunciation

Driver Module



The GCI series of graphic annunciator drivers allow the EST3X control panel to display events on an LED-based graphic annunciator. The GCI annunciator card supports 32 LEDs on the graphic panel display. It includes status LEDs and an internal buzzer. The GCIX adder card communicates with the GCI card and provides an additional 48 LEDs and 24 switch connection points. The graphic cards are supplied with snap track mounting. They are attached to a plastic mounting rail that requires two EIA panels.

The annunciator communicates with the control panel on the RS 485 data riser, which can be configured for Class A or Class B communication. The annunciator does not provide ground fault isolation. The driver card and expansion cards communicate with and are powered by the control panel or by an approved power supply. Always ensure that National and Local approvals and requirements are met when selecting a graphic panel supplier.

☐	GCI	Graphic Annunciator Driver.	Data Sheet E85005-0133
☐	GCIX	Graphic Annunciator Driver Expander. Outputs for 48 LEDs, 24 switch inputs.	Data Sheet E85005-0133



FireWorks

FireWorks is an incident management command and control platform that comprises hardware, software, and networking components that together provide a powerful and cohesive Mass Notification and Life Safety solution. Sophisticated networking technology allows it to integrate seamlessly with EDWARDS life safety solutions, yet FireWorks remains fully interoperable with third-party equipment, making it ideal for system upgrades or new installations alike.

FireWorks can automatically trigger programmed responses to facility events, or it can act as an operator interface for manual control. The FireWorks user interface provides a clear, concise, and coordinated view of any situation by presenting information strategically.

Five configurable graphical viewports offer simultaneous insight into different aspects of an incident, while the underlying software dynamically manages content in each viewport based on real-time events and user interaction. Facility maps, live video feeds, audio channels, protocol information, and fingertip control over vital equipment all come together instantly within view of an operator facing events that require solid information and split second timing.



For more information please refer to Data Sheet E85006-0068.

Supporting every FireWorks workstation is a sophisticated network backbone – strong enough to handle coordinated critical control functions from as many as fifty client workstations and many other devices, yet flexible enough to manage integration with third-party mass notification systems.

Redundant server options eliminate risk of communications breakdowns by providing alternate data paths that regenerate communications in the event of signal loss. FireWorks can operate on an existing local area network, or provide facility access from anywhere in the world via secured Virtual Private Network (VPN) connections.

Servers and Workstations

FW-UL6S	Server/Workstation. Xeon processor, 128 GB RAM, RAID1 500GB array, dual power supplies.	☐
FW-UL6WW10	Workstation. i7 Intel processor, 32 GB RAM, RAID1 500GB SSDs. Single power supply.	☐

Software

FW-CGS	Standalone package. Allows full 5 viewport display. Includes FW-FIREKEYUSB. No common control.	☐
FW-CGSUL	Standalone package. Allows full 5 viewport display. Includes FW-FIREKEYUSB. With common control.	☐
Non-Redundant Servers: ☐ FW-NSZ5FP, 5 seat. ☐ FW-NS15FP, 15 seat.		☐
Redundant Servers: ☐ FW-RSZ5FP, 5 seat. ☐ FW-RS15FP, 15 seat. ☐ FW-RS25FP, 25 seat.		☐
FW-NCZZFP	Non-Redundant Server Client license.	☐
FW-RCZZFP	Redundant Server Client license.	☐

Software options

85012-0019	FireWorks 9.0 Software DVD only.	☐
85012-0019-8.3	FireWorks 8.3 Software only.	☐
WebClients: ☐ FW-1S, One seat. ☐ FW-4S, Four seats (Requires FW-1S). ☐ FW-10S, (Requires FW-1S & FW-4S).		☐
FW-DARCOM	Software for Communication to DACRs and/or IPMON1000.	☐
FW-FAST	FAST AutoCAD® reader and panel building software for FireWorks Server or Standalone system.	☐
FW-HSSD5	VESDA HLI Interface for up to 5 nodes. Each server must have its own FW-HSSX1.	☐
FW-HSSD20	VESDA HLI Interface for up to 20 nodes. Each server must have its own FW-HSSX1.	☐

Monitors

FW-22LCDWTS	22-inch 16:9 LCD 115 Vac 1680x1050 resolution capacitive touch screen with integral speakers.	☐
FW-42LCDWTS	42-inch 16:9 LCD 115 Vac 1920x1080 resolution surface acoustic wave touch screen.	☐

See Data Sheet E85006-0068 for complete FireWorks ordering information.

SUBMIT



Mass Notification



VoIP Encoder/Decoder

EDWARDS Voice over Internet Protocol (VoIP) encoder/decoder units allow for the use of Transmission Control Protocol/Internet Protocol (TCP/IP) to transmit supervised digital audio for mass notification and life safety applications.



MN-FVPN

MN-FVPN VoIP Encoder/Decoder.

Data Sheet E85010-0143



Mass Notification Serial Communications/LAN interface

The MN-COM1S is a TCP/IP to RS-232 interface with one RJ-45 port and one RS-232 port. It is used in mass notification settings to connect a FireWorks workstation to an EST3 control panel. This module includes power and audio cables.



MN-COM1S

FireWorks Communications Ethernet Port, Command & Control.

Data Sheet E85010-0144



Ethernet Network I/O Module

The EDWARDS MN-NETRLY4 Network Relay provides four unsupervised input zones and four normally-open relays to and from FireWorks V1.6 or greater over an Ethernet (TCP/IP) network. This module is particularly well-suited for mass notification, life safety applications, and other monitoring or output applications. It is also ideal for interfacing to third-party systems.



MN-NETRLY4

Ethernet controllable multi I/O unit, 4 input 4 relay outputs

Data Sheet E85010-0149

Related Equipment (Data Sheet E85010-0144)



MN-PASM2

MN-FVPN preamp signal supervisory booster module



SIGA -RM1/MRM1

Riser Supervision Module



MN-ABPM

Audio Bridge (Panel mount 3-ATPINT)



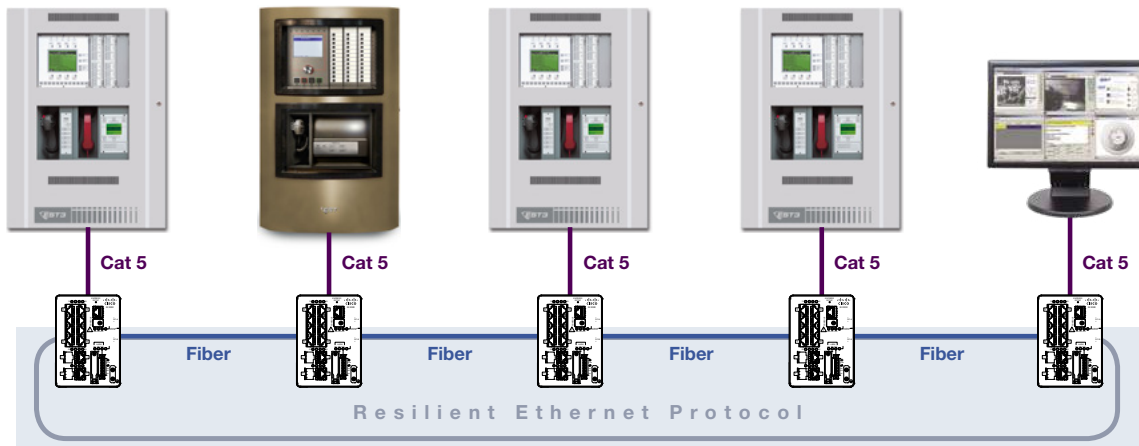
Managed Ethernet Switches

The MN-FNS Series managed Ethernet switches are advanced managed switch solutions that provide for a fully scalable Ethernet network to support virtually any life safety application. These networks may be dedicated for use by mass notification systems or where permitted, may be part of a non-dedicated facility network.

MN-FNS switches are field-tested and designed for use with EST3X *FireWorks*® Computer Platforms, EST3, and other EDWARDS panels and panel networks. They may also interface to non-dedicated facility networks, and even to competing control panels through existing network infrastructure. This makes them ideal for many retrofit applications. MN-FNS Ethernet switches may be interconnected to build spoke format networks, as well as Class B, Class X, Mesh, and Hybrid systems. MN-FNS Series Ethernet switches are powered by Cisco® Technologies and are listed to UL 864 and ULC S527.



Dedicated Class X



Ethernet Switches & Power Supplies

MN-FNS4C2F3	4 Fast Ethernet (RJ45), 2 GB SFP, Layer 3 Lite. 24 VDC.	Data Sheet E85010-0153	☐
MN-FNS8C18F2	Rack-mount, 8 Fast Ethernet (RJ45), 16 FE SFP, 2 GB, Layer 2.	Data Sheet E85010-0153	☐
MN-FNS8C18FAC	100-250 VAC/VDC power supply module, primary or backup.	Data Sheet E85010-0153	☐
MN-FNS8C18FDC	24 VDC power supply module, primary or backup.	Data Sheet E85010-0153	☐
MN-FNS8C2F3	8 Fast Ethernet (RJ45), 2 GB, SFP/RJ45, Layer 3 Lite, 24 VDC.	Data Sheet E85010-0153	☐

Ethernet Switch Mounting Hardware

MN-BRKT1F	Switch mounting bracket for EST3 enclosures	Data Sheet E85010-0153	☐
MN-BRKT3F	Switch mounting bracket for APS6A/10A Series power supplies.	Data Sheet E85010-0153	☐
MN-BRKT8C18F	EST3 cabinet mounting bracket.	Data Sheet E85010-0153	☐
MN-FNSRMK1	MN-FNS8C18F Series switch installation kit.	Data Sheet E85010-0153	☐
MN-FNS4HDK1	MN-FNS4 Series switch holder bracket.	Data Sheet E85010-0153	☐
MN-FNS8HDK1	MN-FNS8 Series switch holder bracket.	Data Sheet E85010-0153	☐

Tranceiver Modules (Dual filament, LC Connectors)

MN-FNSFEDSM10K	Single mode fiber, FE, 0m to 10km, 9.5 dB fiber budget, 1310nm.	Data Sheet E85010-0153	☐
MN-FNSFEMM2K	Multimode fiber, FE, 0m to 2km, 9 dB fiber budget, 1310nm.	Data Sheet E85010-0153	☐
MN-FNSGBDSM70K	Single mode fiber, GB, 10m to 70km, 17.2 dB fiber budget, 1550nm.	Data Sheet E85010-0153	☐

SUBMIT



EST3X
Head End

Power Supplies



Remote Booster Power Supply

The Remote Booster Power Supply is a self-contained 24 Vdc power supply designed to augment fire alarm audible and visual power requirements as well as provide power for auxiliary, access control and security applications. The booster contains all of the necessary circuits to monitor and charge batteries, control and supervise four Class B or two Class A NAC circuits and monitor two controlling inputs from external sources. It also provides the ability to synchronize Genesis series strobes to UL 1971 requirements, and offers independent horn control over two wires.

For comprehensive configuration and wiring details, refer to the BPS Application Guide, 85001-0582.

☐	BPS6A	6.5 Amp Booster Power Supply	Data Sheet E85005-0125
☐	BPS6A/230	6.5 Amp Booster Power Supply (220V)	Data Sheet E85005-0125
☐	BPS10A	10 Amp Booster Power Supply	Data Sheet E85005-0125
☐	BPS10A/230	10 Amp Booster Power Supply (220V)	Data Sheet E85005-0125
☐	3-TAMP	Tamper switch	Data Sheet E85005-0125



Auxiliary Power Supplies

The Auxiliary Power Supply offers the same advantages as the BPS above, but is supplied with its own extra large enclosure providing space for up to two 24 Ah batteries and additional option modules in a number of mounting configurations. Option modules can be installed on the mounting brackets inside the enclosure or on an MP2L mounting plate at the top of the enclosure. The SIGA-REL, and SIGA-UIO2/6/6R can also be mounted at the top of the enclosure.

☐	APS6A	6.5 Amp Auxiliary Power Supply	Data Sheet E85005-0127
☐	APS6A/230	6.5 Amp Auxiliary Power Supply (220V)	Data Sheet E85005-0127
☐	APS10A	10 Amp Auxiliary Power Supply	Data Sheet E85005-0127
☐	APS10A/230	10 Amp Auxiliary Power Supply (220V)	Data Sheet E85005-0127



Batteries and Battery Cabinets

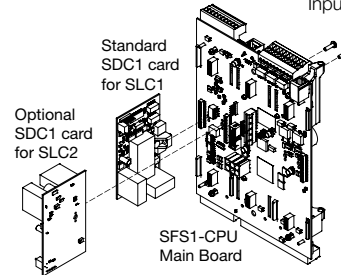
Data Sheet E85010-0127

☐	12 Volt Batteries	☐ 12V4A (4.5 Ah)	☐ 12V6A5 (7.2 Ah)	☐ 12V10A (11 Ah)	☐ 12V17A (18 Ah)
	☐ 12V1A2 (1.2 Ah)	☐ 12V24A (26 Ah)	☐ 12V40A (40 Ah)	☐ 12V50A (50 Ah)	☐ 12V65A (65 Ah)
☐	6 Volt Batteries	☐ 6V8A (8 Ah)	☐ 6V10A (12 Ah)		
☐	Battery Cabinets	☐ BC-1 (holds up to two 40 Ah batteries)	☐ BC-2 (holds up to two 17 Ah batteries)		
		☐ 3-RCC used as large battery enclosure.			

Signature Series

Intelligent Analog Initiating Devices

CO, Smoke and Heat Detectors	p. 20
Fire Detectors	p. 21
Duct Smoke Detectors	p. 21
Detector Bases	p. 22
Detector Accessories	p. 23
Input/Output Modules	p. 24
Pull Stations	p. 30



EST3X's **Signature Series** intelligent analog-addressable system is an entire family of life safety detectors as well as mounting bases, multiple-function input and output modules, and user-friendly maintenance and service tools.

Signature Series detectors continually monitor the protected space with their on-board sensors, which are finely tuned to detect the characteristic properties of combustion. Detection data is gathered and run through sophisticated algorithms that track the sensor readings over time to known signatures of fires. Only when a match is found will an alarm condition occur. This means that a Signature Series detector can distinguish between a harmless puff of dust and a wisp of smoke; between hot, humid weather and a serious life safety condition.

On-board processing and distributed intelligence also results in advanced features that save time and money...

Self-diagnostics and History Log – Signature Series devices constantly run self-checks to provide important maintenance information. The results of these checks are automatically updated and permanently stored in the device's non-volatile memory.

Automatic Device Mapping – The Signature Loop Controller learns where each device's serial number address is installed relative to other devices on the circuit. This mapping function is invaluable for tracking down unexpected or missing device addresses, or finding changes to wiring. The System Definition Utility program also uses this mapping feature to produce system layout or As-Built drawings showing such details as branch wiring (T-taps), device types and their addresses.

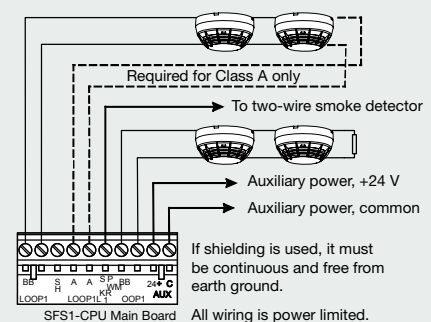
Fast Stable Communication – Built-in intelligence means less information needs to be sent between the device and the Signature Loop Controller, making the circuit less sensitive to noise and wire characteristics. This renders shielded wiring unnecessary. In fact, existing wiring can be used by Signature Series devices in most retrofit situations.

Testing & Maintenance – Each detector automatically identifies when it is dirty or defective and causes a "dirty detector" message. The detector's sensitivity measurement can also be transmitted to the loop controller. A sensitivity report may be printed to satisfy NFPA sensitivity measurements. The user-friendly maintenance program shows the current state of each detector and other pertinent messages. When the CO sensor's electrochemical cell reaches its end of life, the detector signals a trouble condition to the control panel.

3-SDC1 Signature Data Circuit Card

The 3-SDC1 Signature Data Circuit Card provides one Class A, or Class X, or Class B signaling line circuit (SLC1) that supports up to 125 Signature Series detectors and 125 Signature Series module addresses. The module also provides a connection for powering conventional two-wire smoke detector circuits on Signature Series modules. EST3X comes standard with one 3-SDC1 card installed as SLC1. An optional second 3-SDC1 card may be installed to provide SLC2, thus doubling system signaling line capacity.

Signature (initiating) Data Circuit



SUBMIT



EST3X
Head End

Initiating
Devices



Carbon Monoxide and Fire Detectors

In addition to integrated smoke and heat sensors, Signature Series combination life safety devices include electrochemical carbon dioxide sensors. CO detection has rapidly become a standard part of life safety strategies. Monitored CO detection is becoming mandated with increasing frequency in all types of commercial applications, but particularly in occupancies such as hotels, rooming houses, dormitories, day care facilities, schools, hospitals, assisted living facilities, and nursing homes. In fact, more than half of the U.S. population already lives in states requiring the installation of CO detectors in some commercial occupancies. Carbon monoxide is the leading cause of accidental poisoning deaths in America. Known as the “Silent Killer,” CO is odorless, tasteless, and colorless. It annually claims nearly 500 lives, and results in more than 15,000 hospital visits.

Intelligent Carbon Monoxide (CO) Detector

The SIGA-COD detects carbon monoxide from any source of combustion and analyzes the sensor data to determine when to initiate a CO-related life safety event.

☐	SIGA-COD	Intelligent Carbon Monoxide Detector	Data Sheet E85001-0648
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Intelligent Multi-criteria Optical Smoke Detector with CO Sensor

Includes a multi-criteria optical smoke sensor and a carbon monoxide sensor. The detector analyzes the smoke sensor independently from the CO sensor, and can report a smoke/fire alarm separate from a CO-related life safety alarm.

☐	SIGA-OSCD	Intelligent Multi-criteria Smoke and CO Detector	Data Sheet E85001-1002
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Intelligent Multi-criteria Optical Smoke Detector with Heat and CO Sensors

Includes a multi-criteria optical smoke sensor, a fixed-temperature heat sensor, and a carbon monoxide sensor. The detector analyzes the smoke and heat sensors independently from the CO sensor, and can report a smoke/fire alarm separate from a CO-related life safety alarm.

☐	SIGA-OSHCD	Intelligent Multi-criteria Smoke, Heat, and CO Detector	Data Sheet E85001-1004
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☐	SIGA-OSHCDB	Intelligent Multi-criteria Smoke, Heat, and CO Detector (Black)	Data Sheet E85001-1004
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Fire Detectors

Intelligent Multi-criteria Optical Smoke Detector

The workhorse of modern fire alarm systems, this devices includes a multi-criteria optical smoke sensor to detect smoke.

SIGA-OSD	Intelligent Multi-criteria Optical Smoke Detector	Data Sheet E85001-1001	☐
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Intelligent Rate-of-rise and Fixed Temperature Heat Detector

Includes a rate-of-rise and a fixed-temperature sensor to detect heat from fire.

SIGA-HRD	Intelligent fixed temperature/Rate-of-rise heat detector	Data Sheet E85001-0647	☐
SIGA-HFD	Intelligent fixed temperature heat detector	Data Sheet E85001-0647	☐
SIGA-HCD	Intelligent Rate-of-rise/fixed heat and CO detector	Data Sheet E85001-0647	☐

Intelligent Multi-criteria Optical Smoke and Heat Detector

Contains a fixed-temperature heat sensor to detect heat from fire and a multi-criteria optical smoke sensor to detect smoke. Unlike simple multi-criteria detectors, the SIGA-OSHD can report the heat and photo elements as separate event types — or together. This permits the photo element of the detector to report, for example, a supervisory event during the day, and an alarm event at night – while the heat element always reports an alarm.

SIGA-OSHD	Intelligent Multi-criteria Smoke and Heat Detector	Data Sheet E85001-1003	☐
SIGA-OSHDB	Intelligent Multi-criteria Smoke and Heat Detector (Black)	Data Sheet E85001-1003	☐

Initiating
Devices

Notification
Appliances

Hazardous Location
Devices

Door Holders
& Relays

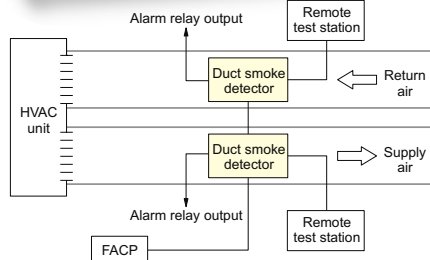


Duct Smoke Detectors

SuperDuct Detectors

Less than two inches deep, SuperDuct intelligent smoke detectors are ideal for installation in ductwork, where space is always at a premium. Offering the most advanced and most reliable performance in its class, SuperDuct represents the perfect balance of practical design and advanced technology.

SuperDuct detectors feature a unique design that speeds installation and simplifies maintenance. Removable dust filters, conformally coated circuit boards, and optional water-resistant gaskets keep contaminants away from components, ensuring years of trouble-free service. When cleaning is required, the assemblies come apart easily and snap back together in seconds.

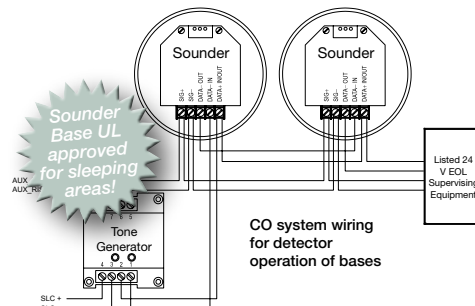


SIGA-SD	Intelligent SuperDuct Detector			Data Sheet E85001-0584	☐
SD-PH	Protective housing for high humidity environments			Data Sheet E85001-0584	☐
Sampling Tubes	☐ SD-T8 (8")	☐ SD-T18 (18")	☐ SD-T24 (24")	☐ SD-T36 (36")	☐
	☐ SD-T42 (42")	☐ SD-T60 (60")	☐ SD-T78 (78")	☐ SD-T120 (120")	☐
Remote Test Stations	☐ SD-TRM (magnetic)	☐ SD-TRM (keyed)	☐ SIGA-LED (Remote alarm LED)		☐
Accessories	☐ SD-GSK (cover gasket kit)			☐ SD-MAG (Test magnet kit)	☐
	☐ SD-VTK (Air velocity test kit, stoppers only)			☐ SIGA-SDPCB (PCB/Signature sensor kit)	☐

SUBMIT



Detector Bases



Audible (Sounder) Bases



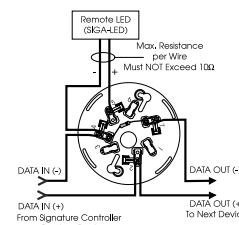
Signature Series Sounder Bases add audible output functions to Signature Series smoke and CO detectors. Bases can operate as independent local alarms, or as part of a zone or system alarm with synchronized audible output. The SIGA-AB4G-LF is UL listed for sleeping areas and other applications requiring 520 Hz low frequency audible tones.

☐	SIGA-AB4G-LF	Low Frequency Audible (Sounder) Base for CO and Fire Detectors	Data Sheet E85001-0640
☐	SIGA-AB4GT	Audible (Sounder) Base for CO and Fire Detectors	Data Sheet E85001-0640
☐	SIGA-TCDR	Temporal Pattern Generator for SIGA-AB4GT, SIGA-AB4G-LF	Data Sheet E85001-0640
☐	SIGA-AB4G	Audible (Sounder) Base	Data Sheet E85001-0640
☐	AB4G-SB	Surface Box for Audible Bases	Data Sheet E85001-0640

Standard Detector Bases



Standard detector bases provide roomside wiring terminals. They mount to North American one-gang box, 3½ or 4-inch octagon boxes, or 4-inch square electric box. Bases for 4-inch square boxes include the SIGA-TS4 Trim Skirt to conceal the electric box and provide a finished appearance.

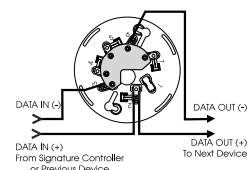


☐	☐ SIGA-SB	☐ SIGA-SB4 (with trim skirt)	Standard Detector Base	Data Sheet E85001-0245
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Isolator Detector Base



Isolator detector bases provide room-side wiring terminals and includes a built-in line fault isolator. Models with integral switches allow the detector to be removed from its base without causing the isolator to operate. Mounts to North American one-gang box, 3½ or 4-inch octagon boxes, or 4-inch square electrical boxes. Bases for 4-inch square boxes include the SIGA-TS4 Trim Skirt to conceal the electrical box and provide a finished appearance.

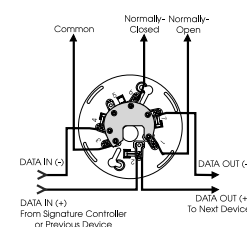


☐	☐ SIGA-IB	☐ SIGA-IB4 (with trim skirt)	Isolator Detector Base	Data Sheet E85001-0245
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Relay Detector Base



This base includes a relay. Normally-open or closed operation is selected during installation. The dry contact is rated for 1 amp (pilot duty) @ 30 Vdc. The relay's position is supervised to avoid accidentally jarring it out of position. The relay base does not support the SIGA-LED remote LED. It mounts to North American one-gang boxes, 3½ or 4-inch octagon boxes, or 4-inch square electrical boxes. Bases for 4-inch square boxes include the SIGA-TS4 Trim Skirt to conceal the electrical box and provide a finished appearance.



☐	☐ SIGA-RB	☐ SIGA-RB4 (with trim skirt)	Relay Detector Base	Data Sheet E85001-0245
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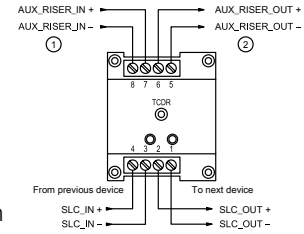


Detector Accessories



SIGA-TCDR Temporal Pattern Generator

The SIGA-TCDR Temporal Pattern Generator is an addressable device that generates sound patterns for carbon monoxide (CO) and fire signals for the AB4GT and AB4G-LF sounder base. The control panel sends synchronization and channel commands to the SIGA-TCDR; the channel selection determines the pattern.



SIGA-TCDR

Temporal Pattern Generator for AB4GT Sounder Base

Data Sheet E85001-0623



Detector Mounting Plate

The SIGA-DMP Detector Mounting Plate is a 7-inch (178mm) square mounting plate designed to provide convenient mounting of Signature Series intelligent smoke detectors in raised floor or plenum applications. The detector mounting plate may also be installed in low velocity ducts that have a maximum width of up to 36-inches (915mm) and a maximum height of up to 36-inches (915mm).

SIGA-DMP

Detector Mounting Plate

Data Sheet E85001-0255



Remote LED

The remote LED connects to the SIGA-SB or SIGA-SB4 Standard Base. It features a North American size one-gang plastic faceplate with a white finish and red alarm LED.

SIGA-LED

Remote Alarm LED

Data Sheet E85001-0245



Trim Skirt

Use the SIGA-TS Trim Skirt to give Signature detectors a finished look and hide surface imperfections around the detector's base. Supplied with all four-inch detector bases, the SIGA-TS4 can also be ordered separately. Use the black model with SIGA-IPHSB.

SIGA-TS

Detector Trim Skirt (white)

Data Sheet E85001-0245



SIGA-TSB

Detector Trim Skirt (black)

Data Sheet E85001-0245



SIGA-TS4

Detector Trim Skirt (white) – for 4-inch box

Data Sheet E85001-0245



Detector Guard

Constructed of sturdy 16-gauge steel, the SIGA-GRD Smoke Detector Guard is designed for preventing smoke detectors from damage or tampering. The advanced louver system allows smoke detectors to be installed at their listed spacing and has no effect on operating sensitivity.

SIGA-GRD

Smoke Detector Guard

Data Sheet E85001-1005



SIGA-DGSB

Detector Guard Surface Mount Accessory

Data Sheet E85001-1005



Duct Housing

The SDH(R) series housings provide the ability to use Signature detectors in duct applications utilizing SD-Txx sampling tubes in lengths of 8" to 10ft.

SIGA-SDH

Duct detector housing with standard base

Date sheet E85001-0326



SIGA-SDHR

Duct detector housing with relay base

Date sheet E85001-0326



Initiating
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SUBMIT



EST3X
Head End

Initiating
Devices

Signature Series

Input/Output Modules

Signature Series input/output modules are extremely flexible and powerful devices that gather analog information from the slave devices connected to them and convert this data into digital signals. They are available in models that mount in standard one- or two-gang electrical boxes, as well as versions that plug into UIO motherboards.

The actual function of each module is determined by its installer-selected personality code. This is downloaded to the module from the Signature Loop Controller during system configuration. Because they are intelligent devices, all decisions are made at the module. This allows lower communication speed but very fast control panel response time and less sensitivity to line noise and loop wiring properties. As a result, twisted or shielded wire is not required.



Standard two-gang mount

Plug-in UIOs
with motherboard

Application	Module
Voice messages	Digital Messaging Module
Waterflow Switches	Waterflow/Tamper Module
Class A indicating and initiating circuits, two-wire smoke detectors	Universal Class A/B Module
Class B Initiating Circuits:	Class B Input Module
Door Closers, Fans, Dampers	Monitor Module
	Control Relay Module
Telephone Power and Audible/Visual Signal Power Selector, Strobe Synchronization	Signal Module
Sounder Base power	Reversal Relay Module
Fire Suppression	Releasing Module
Fault detection	Isolator Module

Signature Series intelligent input/output modules feature multiple user-set personality codes that define the module's behavior.

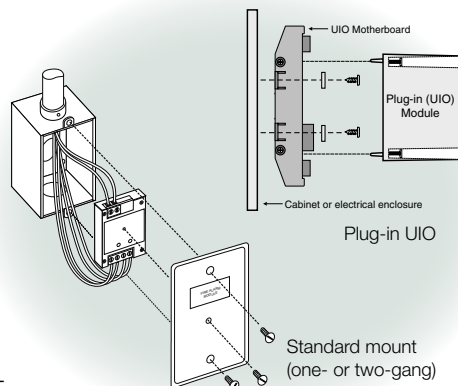
Module mounting and installation options

Signature Series input/output modules are available in models that feature two mounting options: standard mount and plug-in.

Standard mount models are installed to North American two-gang or one-gang electrical boxes, making them ideal for locations where only one module is required. Separate I/O and data loop connections are made to each module.

Plug-in UIO modules mount to UIO motherboards. Two- and six-module UIO motherboards are available, making them ideal for installations

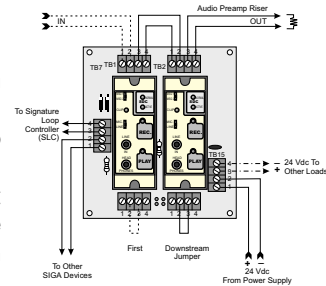
where more than one module is required. Motherboards can accommodate individual risers for each on-board module, or shared risers in any combination with their UIO modules. All wiring connections are made to terminal blocks on the motherboard. UIO assemblies may be mounted in either cabinets, or standard electrical enclosures.





Digital Message Module

The SIGA-MDM Digital Message Module provides custom pre-recorded voice messaging. Two standard factory pre-recorded messages are included. Each module can store two 30 second messages in its non-volatile EEPROM memory. A microphone/line-level audio input stereo jack and output stereo jack, as well as record and playback switches are conveniently located on top of the module. Programming in the Signature Data Controller provides all control instructions; extra wiring for monitoring or controlling circuits is not required. Up to 47 modules can be cascaded together. The SIGA-MDM is available as a plug-in module only.



SIGA-MDM

Intelligent Digital Message Module

Data Sheet E85001-0363

Universal Class A/B Module

The Universal Class A/B Module is used to connect initiating, appliance, or two-wire smoke circuits in either Class A or Class B configurations. The plug-in version can also be used as a Class A dry contact initiating device circuit. The actual function of this module is determined by the "personality code" selected by the installer. Up to fifteen personalities are available.



SIGA-UM

Universal Class A/B Module (Two-gang standard mount)

Data Sheet E85001-0275

SIGA-MAB

Universal Class A/B UIO (Plug-in) Module

Data Sheet E85001-0275

Class B Input Module

The Class B Input Module is used to connect Class B normally-open Alarm, Supervisory, or Monitor type dry contact initiating device circuits. The standard-mount version is available with either one or two input connections. The plug-in version accepts two input connections. The actual function of this module is determined by the "personality code" selected by the installer. A total of four personalities are available.



SIGA-CT1

Single Input Module (One-gang standard mount)

Data Sheet E85001-0241

SIGA-CT2

Dual Input Module (One-gang standard mount)

Data Sheet E85001-0241

SIGA-MCT2

Dual Input UIO (Plug-in) Module

Data Sheet E85001-0241

SUBMIT



Signal Module

The Signal Module is used to connect, upon command from the loop controller, supervised Class B signal or telephone circuits to their respective power inputs. Models are available with one or two power inputs. These may be either polarized 24 Vdc to operate audible and visual signal appliances, or 25 and 70V_{RMS} to operate audio evacuation speakers and firefighter's telephones. The actual function of this module is determined by the "personality code" selected by the installer. A total of three personalities are available.



☐	SIGA-CC1	Single Input Signal Module (Two-gang standard mount)	Data Sheet E85001-0237
☐	SIGA-MCC1	Single Input Signal UIO (Plug-in) Module	Data Sheet E85001-0237
☐	SIGA-CC2	Dual Input Signal Module (Two-gang standard mount)	Data Sheet E85001-0237
☐	SIGA-MCC2	Dual Input Signal UIO (Plug-in) Module	Data Sheet E85001-0237
☐	SIGA-CC2A	Dual Input Signal Module with Class A Operation (Two-gang mount)	Data Sheet E85001-0609
☐	SIGA-MCC2A	Dual Input Signal UIO with Class A Operation (Plug-in) Module	Data Sheet E85001-0609

Control Relay Module

The Control Relay Module provides a Form C dry relay contact to control external appliances such as door closers, fans, dampers etc. This device does not provide supervision of the state of the relay contact. Instead, the on-board microprocessor ensures that the relay is in the proper ON/OFF state. Upon command from the loop controller, the relay activates the normally open or normally-closed contact. This module supports only one personality: no user configuration is required.



☐	SIGA-CR	Control Relay Module (One-gang standard mount)	Data Sheet E85001-0239
☐	SIGA-MCR	Control Relay UIO (Plug-in) Module	Data Sheet E85001-0239
☐	SIGA-CRH	High Power Control Relay Module	Data Sheet E85001-0644

Polarity Reversal Relay Module

The Polarity Reversal Relay Module provides a Form C dry relay contact to power and activate a series of SIGA-AB4 Audible Sounder Bases. Upon command from the Signature loop controller, the SIGA-CRR reverses the polarity of its 24 Vdc output, thus activating all Sounder Bases on the data loop. This module supports only one personality: no user configuration is required.



☐	SIGA-CRR	Polarity Reversal Relay Module (One-gang standard mount)	Data Sheet E85001-0239
☐	SIGA-MCRR	Polarity Reversal Relay UIO (Plug-in) Module	Data Sheet E85001-0239

Riser Monitor Module

The SIGA-RM1 Riser Monitor Module is an intelligent device that monitors the integrity of 24 Vdc, 25 Vac, and 70 Vac circuits, as well as telephone riser signals. Upon the loss of a signal, the Riser Monitor Module causes the fire alarm control panel to indicate an alert status. Personality codes downloaded to the Riser Monitor Module during system configuration determine its function.



☐	SIGA-RM1	Riser Monitor Module (One-gang standard mount)	Data Sheet E85001-0535
☐	SIGA-MRM1	Riser UIO (Plug-in) Module	Data Sheet E85001-0535

SUBMIT



Synchronization Output Module

The Synchronization Output Module is an intelligent device that connects a supervised output circuit to a 24 Vdc riser. The output wiring is monitored for open circuits and short circuits. A short circuit will cause the fire alarm control panel to inhibit the activation of the audible/visual signal circuit so the riser is not connected to the wiring fault. Upon command from the Signature loop controller, the Auto-Sync Output Module connects the output circuit to the riser input. The output circuit operates polarized audible and visual appliances that have an adjustable resynchronizing feature.



SIGA-CC1S	Synchronization Output Module (One-gang standard mount)	Data Sheet E85001-0543	☐
SIGA-MCC1S	Synchronization Output UIO (Plug-in) Module	Data Sheet E85001-0543	☐

Input/Output Module

The Input/Output Module is an intelligent device that provides the following modes of operation:

- Output with monitor input
- Input/programmable output
- Input/direct output



SIGA-IO	Input/Output Module (One-gang standard mount)	Data Sheet E85001-0533	☐
SIGA-MIO	Input/Output UIO (Plug-in) Module	Data Sheet E85001-0533	☐

Waterflow/Tamper Module

The SIGA-WTM Waterflow/Tamper Module is a two circuit intelligent module. Circuit 1 is for Class B normally-open waterflow alarm switches. When the input contact is closed for approximately 16 seconds, an "alarm" signal is sent to the loop controller. Circuit 2 is for Class B normally open dry contact supervisory and tamper switches. When the input contact is closed, an "active" signal is sent to the loop controller. Conditions on both circuits are latched at the module.



SIGA-WTM	Waterflow/Tamper Module (One-gang standard mount)	Data Sheet E85001-0297	☐
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Isolator Module

The SIGA -IM2 Isolator Module is an intelligent device that allows part of the Signature data loop to continue operating in the event of a short circuit. The module can be wired into a Class A data loop at any point. A maximum of 96 isolator modules can be installed on one circuit. If a fault occurs, the isolator cuts power to all devices beyond the isolator on the loop. Once activated, the line fault isolator continuously checks the faulted side of the loop to determine if the short still exists. When the fault is cleared, the module automatically restores the entire data loop to its normal condition.



SIGA -IM2	Fault Isolator Module (Two-gang standard mount)	Data Sheet E85001-0272	☐
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Monitor Module

The SIGA-MM1 is a single-circuit intelligent module that includes a Class B normally-open dry contact. This is used for monitoring input from devices such as fans, dampers, and doors. When the input contact is closed, an "active" signal is sent to the loop controller. The active condition is not latched at the module.



SIGA-MM1	Monitor Module (One-gang standard mount)	Data Sheet E85001-0297	☐
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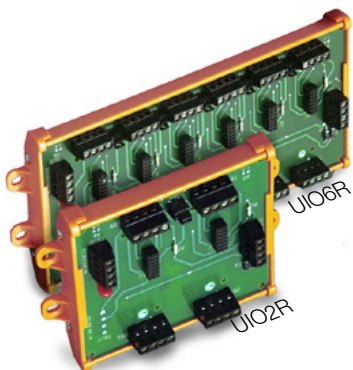
Hazardous Location
Devices

Door Holders
& Relays

SUBMIT



Universal Input/Output (UIO) Motherboards



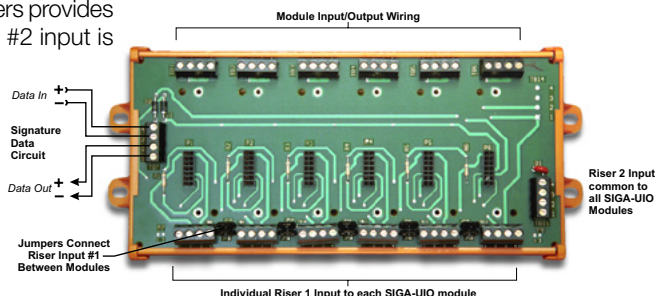
Signature Series Universal Input/Output Module Motherboards provide mounting and wiring terminations for up to six Signature Series plug-in UIO (SIGA-“M” series) modules. UIO motherboards snap into a rigid extruded track (included) with mounting pads for convenient mounting into a variety of equipment enclosures. UIO modules plug into the board and are held securely in place with captive machine screws. All field wiring connects to terminal blocks on the motherboard, which permits rapid removal and replacement of modules for troubleshooting.

The SIGA-UIO2R provides mounting and wiring terminations for up to two UIO modules, and the SIGA-UIO6R provides mounting and wiring terminations for up to six UIO modules. Both motherboards feature a riser #1 input and a riser #2 input bus. Jumpers on riser #1 input (between modules), facilitate sharing a single riser among more than one module. This significantly reduces wiring requirements. Removing the jumpers provides

separate riser inputs to each adjacent module. Riser #2 input is fixed to each module position and cannot be split.

The SIGA-UIO6 provides mounting and wiring terminations for up to six UIO modules. This motherboard provides two riser inputs that are common to all modules.

UIO motherboards mount inside the MFC-A cabinet or other suitable UL-listed electrical enclosure. Each MFC-A will hold one UIO2R motherboard or one UIO6 or UIO6R motherboard complete with their full complement of modules.



☐	SIGA-UIO2R	Universal Input/Output Module Board with Riser Inputs — 2 Module Positions	Data Sheet E85001-0365
☐	SIGA-UIO6R	Universal Input/Output Module Board with Riser Inputs — 6 Module Positions	Data Sheet E85001-0365
☐	SIGA-UIO6	Universal Input/Output Module Board — 6 Module Positions	Data Sheet E85001-0365

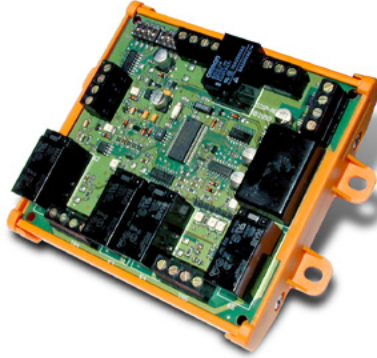
Related Equipment

☐	MFC-A	Multi-function Cabinet (for UIO and Releasing modules)
☐	27193-11	Surface Mount Box - Red, One-gang
☐	27193-16	Surface Mount Box - White, One-gang
☐	27193-21	Surface Mount Box - Red, Two-gang
☐	27193-26	Surface Mount Box - White, Two-gang
☐	235196P	Bi-polar Transient Protector (use with all Signal Modules)
☐	SIGA-MP1	Signature Module Mounting Plate, 1 footprint
☐	SIGA-MP2	Signature Module Mounting Plate, 1/2 footprint
☐	SIGA-MP2L	Signature Module Mounting Plate, 1/2 extended footprint





Releasing Module



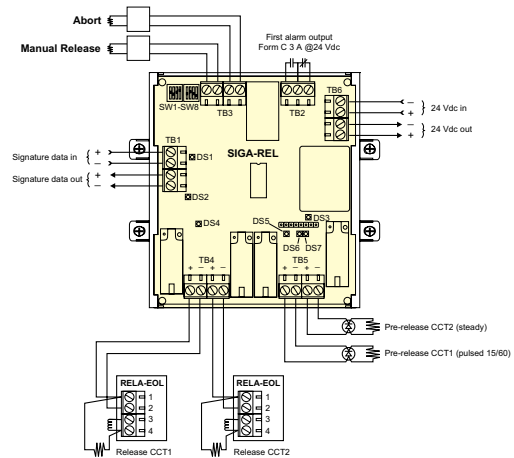
The Signature Series Releasing Module (SIGA-REL) is an analog addressable releasing module that works with fire suppression systems designed to release extinguishing gas. Its primary function is the control of sprinkler pre-action routines and the initiation of suppression system deluge functions. The module is easily configured in the field and offers a wide range of options that prevent the unnecessary release of extinguishing agent.

The SIGA-REL is a network component consisting of:

- Two supervised release circuits
- Two supervised pre-release circuits
- One supervised manual release input circuit
- One supervised abort circuit for N/O abort switch
- One first alarm output relay (Form C Contact)

The releasing module includes a built-in timer that inhibits the deluge function during the pre-action routine. One of four pre-action routines, may be selected by means of dip-switches on the module. The duration of automatic and manual time delays, as well as the abort time settings are also selectable with dip-switches. The SIGA-REL mounts inside an MFC-A cabinet or other suitable UL-listed electrical enclosure. Each MFC-A will hold one SIGA-REL.

Available releasing module accessories include dedicated pull stations, abort switches and service switches. Together with the SIGA-REL, they comprise a complete fire suppression package.



SIGA-REL	Analog addressable releasing module	Data Sheet E85001-0531	☐
RELA-ABT	Abort station	Data Sheet E85001-0531	☐
RELA-SRV	Service disconnect station	Data Sheet E85001-0531	☐
276A-REL	Manual releasing station (single-action)	Data Sheet E85001-0531	☐
278A-REL	Manual releasing station (double-action)	Data Sheet E85001-0531	☐
RELA-EOL	Polarized end-of-line relay	Data Sheet E85001-0531	☐

SUBMIT

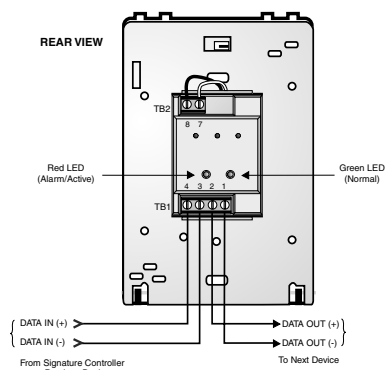


Manual Pull Stations



Single Action Pull Stations

SIGA-270 series manual pull stations are made from die-cast zinc and finished with red epoxy powder-coat paint. With positive pull-lever operation, one pull on the station handle breaks the rod and turns in a positive alarm. Where two-stage operation is required, SIGA-270P pre-signal models are equipped with a general alarm (GA) keyswitch.

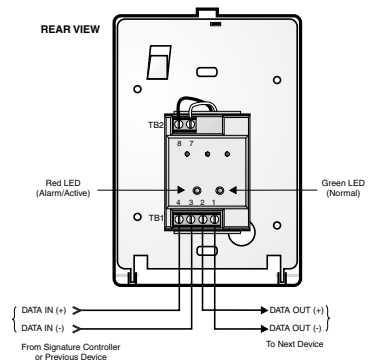


☐	SIGA-270	One Stage Fire Alarm Station, English Markings	Data Sheet E85001-0279
☐	SIGA-270P	Two Stage (Pre-signal) Fire Alarm Station, English Markings	Data Sheet E85001-0279
☐	276-K2	GA Key — for pre-signal station	Data Sheet E85001-0279
☐	270-GLR	20 Break-rods — for SIGA-270 series	Data Sheet E85001-0279
☐	276B-RSB	Surface Mount Box, Red — for SIGA-270 series	Data Sheet E85001-0279



Double Action Pull Stations

The double action, single stage SIGA-278 station is a contemporary style manual station made from durable red LEXAN. To initiate an alarm, first lift the upper door, then pull the alarm handle.



☐	SIGA-278	Double Action (One Stage) Fire Alarm Station, English Markings	Data Sheet E85001-0279
☐	276B-RSB	Surface Mount Box, Red — for SIGA-278 series	Data Sheet E85001-0279
☐	276-GLR	20 Break-rods — for SIGA-278 series	Data Sheet E85001-0279

Manual Station Relocator

The Manual Station Relocator is designed to lower the height of a fire alarm pull station to meet ADA requirements. Most existing pull stations are mounted 60 inches (1524mm) or higher above the floor. The Relocator lowers the height to 48 inches (1220mm) without the need for pulling new wires or moving the existing electrical box.

☐	RR-32RL	Pull Station Relocator	Data Sheet E85001-0351
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Stopper II

This unique device helps prevent false alarms without restricting legitimate ones. It consists of a tamper-proof clear LEXAN polycarbonate shield and frame that fits easily over manual pull stations. When lifted, it sounds a piercing warning horn.

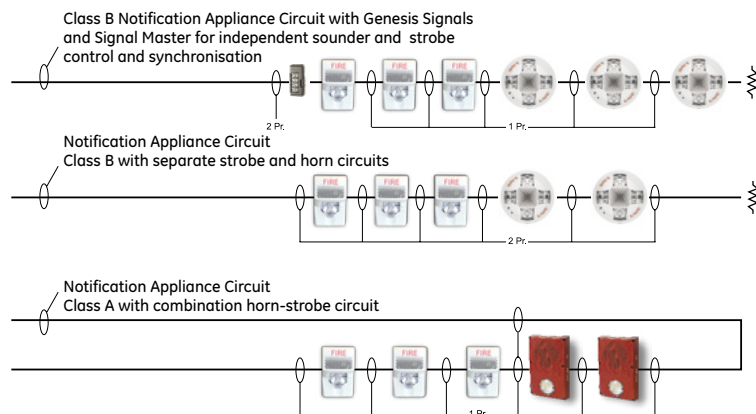
☐	☐ STI-1100 (Flush)	☐ STI-1130 (Surface)	Stopper II with Horn	Data Sheet E85001-0491
☐	☐ STI-1200 (Flush)	☐ STI-1230 (Surface)	Stopper II without Horn	Data Sheet E85001-0491
☐	☐ STI-3100 (2" Spacer)	☐ STI-3004 (Conduit Insert)	Spacers	Data Sheet E85001-0491
☐	☐ STI-3002 (Gasket)	☐ STI-3003 (Conduit Gasket)	Weatherproofing	Data Sheet E85001-0491

Notification Appliances

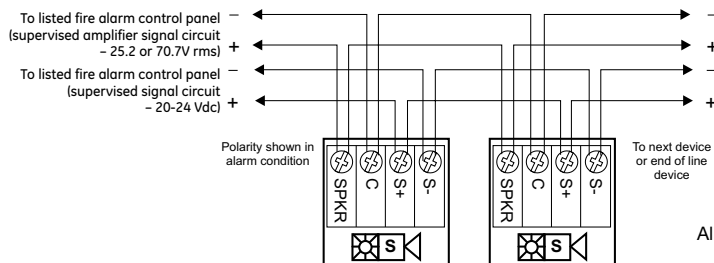
EDWARDS notification appliances are high-performance devices finely tuned to deliver maximum output in exchange for the lowest possible current draw. Covering the entire spectrum of life safety applications, these devices are durable, dependable, and virtually maintenance-free. And they support a wide range of mounting options that make them ideal for new construction and retrofit applications alike.

Field Wiring

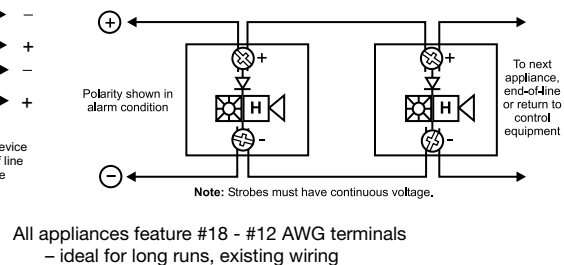
Notification appliances may be configured for Class A or Class B wiring. Genesis combination horn-strobes, when used with the innovative Signal Master Module, support independent horn control over a single pair of wires and precision synchronization that exceeds UL requirements. This reduces wiring time while meeting the requirements of even the most demanding application.



Device Wiring, Speaker-strobes



Device Wiring, Horn-strobes



Strobe Synchronization

On a common circuit, strobes flash once per second (1 fps) within 10 milliseconds over a two-hour time period. A synchronization source is required to comply with UL 1971 synchronization standards. Temporal setting (private mode only): synchronized to temporal output on the same circuit.

Synchronization Sources

The following control panels, power supplies, and modules provide synchronization sources that enable Genesis strobe devices to comply with UL 1971 synchronization standards: SIGA-CC1S, SIGA-MCC1S, SIGA-CC2A, SIGA-MCC2A, G1M-RM, BPS6A, BPS10A, APS6A, APS10A, EST3X, iO64, iO500, VS1, VS2, VM, E-FSA64, E-FSA250, Fireshield Plus.

LED Compact Strobes, Horns & Horn-Strobes	p. 33
LED Wall Strobes, Horns, Horn-Strobes	p. 34
LED Ceiling Strobes, Horns, Horn-Strobes	p. 35
LED Wall Speakers & Speaker-Strobes	p. 36
LED Ceiling Speakers, Horns & Strobes	p. 37
Low Frequency Horns and Horn-Strobes	p. 38
Outdoor Horns & Strobes	p. 39
Outdoor Speakers & Strobes	p. 40
High Power Speaker Arrays	p. 41
Medium Power Speaker Arrays	p. 42
Audible Signals	p. 45
Harsh Environment Signals	p. 46
Accessories	p. 47

Genesis Visual & Audible Signals

A complete line engineered to deliver innovative features and superb output.



LED Compact Strobes, Horns, Horn-Strobes, p. 33



LED Wall Strobes, Horns, Horn-Strobes . p.34



LED Ceiling Strobes, Horns, Horn-Strobes p. 35



LED Wall Speakers and Speaker-strobes, p. 36



LED Ceiling Speakers, Speaker-strobes, p. 37



Low Frequency Horns and Horn-Strobes, p. 38



Outdoor Horns, Horn-Strobes, p. 39



Outdoor Speakers, Speaker-Strobes, p. 40

The award-winning Genesis line of products represents excellence in fire alarm notification with looks, features, and performance benefits designed with your project in mind. Wall strobes, horns, and chimes about the size of a deck of playing cards offer a discreet alternative to bulky devices, while speakers and ceiling models with clean modern lines blend inconspicuously with their surroundings.

Signaling on-demand

Though designed for discretion, Genesis signals are also engineered to command attention. Wall-penetrating high dB output and patented strobe technology immerse the protected area with levels of light and sound that simply can't be ignored – all in exchange for the lowest current demands of any device in their class.

Genesis brings on-demand signaling to every application with an unparalleled range of field-configurable options: horns and chimes with high/low dB output settings; speakers with multiple wattage tap selections; and strobes with selectable candela output and flash rate – options that put you in the driver's seat when time is short, budgets slim, and manpower at a premium. It also means fewer parts to stock, less inventory to worry about, and the flexibility to meet changing demands – on the fly – without having to reinstall equipment or order more parts!

Application flexibility

Whether you're designing for a new landmark structure, or simply retrofitting a local strip mall, competitively-priced Genesis signals bring value, good looks, and installation flexibility to every application. Contact EDWARDS today to learn how your signal solutions can be the model of discretion.

Genesis LED Series Compact Wall Models

LED Strobes, Horns & Horn-Strobes

Genesis LED G1 Series horns and LED strobes feature a sleek, low-profile design and energy-efficient technology that makes them less expensive to install and operate by reducing overhead. High-performance LEDs and patented electronics allow for more devices per loop and fewer booster power supplies.



SUBMIT



Genesis strobes offer 15 to 75 candela output, which is selectable with a conveniently located switch on the side of the device. The current is only 24mA VDC and 32mA VFWR for all light output settings. The candela output setting remains clearly visible even after final installation, yet it stays locked in place to prevent unauthorized tampering. (Data Sheet E85001-0667)

White housing ↓ no marking	White housing ↓ with "FIRE"	Red housing ↓ no marking	Red housing ↓ with "FIRE"	White housing ↓ with "ALERT"
☐ G1VWN	☐ G1VWF	☐ G1VRN	☐ G1VRF	☐ G1VWA



Genesis Horns reach output levels as high as 92 dB and feature a unique multiple-frequency tone that results in excellent wall penetration and an unmistakable warning of danger. Horns may be configured for either constant or temporal 3 output and high or low dB output with a conveniently located switch under the cover. No more cutting jumpers. Horns operate at 13mA VDC and 15mA VFWR on Low dB output and 23mA VDC and 29mA VFWR on High dB output. (Data Sheet E85001-0667)

White housing ↓ no marking	White housing ↓ with "FIRE"	Red housing ↓ no marking	Red housing ↓ with "FIRE"
☐ G1AWN	☐ G1AWF	☐ G1ARN	☐ G1ARF



Genesis Horn-strobes provide a low-profile design with horn output reaching as high as 92 dBA and as low as 80 dBA and have strobes that offer 15 to 75 candela output. Both the horn and strobe can be field configured with a switch, which is conveniently located on the side of the device. The candela output setting remains clearly visible even after final installation, yet it stays locked in place to prevent unauthorized tampering. Horns may be configured for either constant or temporal 3 output and high or low dB output. Horn-Strobes operate at 35mA VDC and 43mA VFWR on Low dB output and 45mA VDC and 55mA VFWR on High dB output for all light output settings. (Data Sheet E85001-0667)

White housing ↓ no marking	White housing ↓ with "FIRE"	Red housing ↓ no marking	Red housing ↓ with "FIRE"
☐ G1AVWN	☐ G1AVWF	☐ G1AVRN	☐ G1AVRF



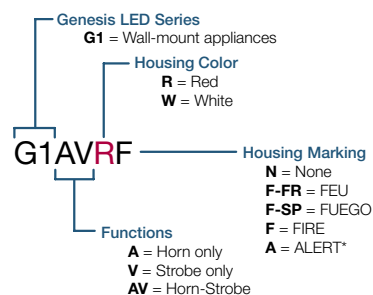
Trim plates for wall horns, horn-strobes, and strobes are ideal for covering openings left behind during retrofits.

White plate ↓ no marking	Red plate ↓ no marking	Trim Plates
☐ G1TW	☐ G1TR	Trim plate for 2-gang or 4" boxes



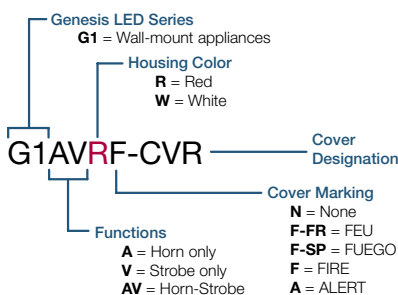
Replacement covers are available for all models. When ordering add -CVR to the model number.

Model Number Syntax, Appliances



* ALERT marking available on white strobe model with clear lens only. See replacement covers for more options.

Model Number Syntax, Replacement Covers



Notification
Appliances

Hazardous Location
Devices

Door Holders
& Relays

SUBMIT



Genesis LED Series Wall Models

LED Strobes, Horns & Horn-Strobes

Genesis LED G4 Series horns and LED strobes feature a sleek, low-profile design and energy-efficient technology that makes them less expensive to install and operate by reducing overhead. High-performance LEDs and patented electronics allow for more devices per loop and fewer booster power supplies. Genesis LED G4 devices mount to the required GP10 room side wiring plate for installation. The GP10 mounting plate is ordered separately from the G4 device in packs of 10 for convenient pre-installing and pre-wiring.

Genesis strobes offer 15 to 110 candela output, which is selectable with a conveniently located switch on the side of the device. The current is only 28mA VDC and 36mA VFWR for all light output settings. The candela output setting remains clearly visible even after final installation, yet it stays locked in place to prevent unauthorized tampering. (Data Sheet E85001-0668)

White housing ↓ no marking	White housing ↓ with "FIRE"	Red housing ↓ no marking	Red housing ↓ with "FIRE"	White housing ↓ with "ALERT"
☐ G4VWN	☐ G4VWF	☐ G4VRN	☐ G4VRF	☐ G4VWA

Genesis Horns reach output levels as high as 92 dB and feature a unique multiple-frequency tone that results in excellent wall penetration and an unmistakable warning of danger. Horns may be configured for either constant or temporal 3 output and high or low dB output with a conveniently located switch under the cover. No more cutting jumpers. Horns operate at 18mA VDC and 22mA VFWR on Low dB output and 28mA VDC and 38mA VFWR on High dB output. (Data Sheet E85001-0668)

White housing ↓ no marking	White housing ↓ with "FIRE"	Red housing ↓ no marking	Red housing ↓ with "FIRE"
☐ G4AWN	☐ G4AWF	☐ G4ARN	☐ G4ARF

Genesis Horn-strobes provide a low-profile design with horn output reaching as high as 92 dBA and as low as 80 dBA and have strobes that offer 15 to 110 candela output. Both the horn and strobe can be field configured with a switch, which is conveniently located on the side of the device. The candela output setting remains clearly visible even after final installation, yet it stays locked in place to prevent unauthorized tampering. Horns may be configured for either constant or temporal 3 output and high or low dB output. Horn-Strobes operate at 40mA VDC and 48mA VFWR on Low dB output and 50mA VDC and 60mA VFWR on High dB output for all light output settings. (Data Sheet E85001-0668)

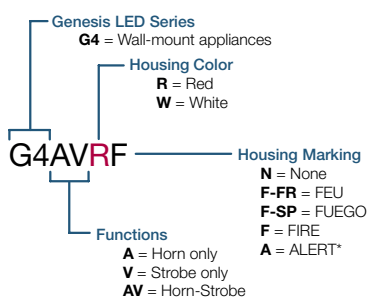
White housing ↓ no marking	White housing ↓ with "FIRE"	Red housing ↓ no marking	Red housing ↓ with "FIRE"
☐ G4AVWN	☐ G4AVWF	☐ G4AVRN	☐ G4AVRF

Accessories including required room side wiring plate and trim plates ideal for openings left behind during retrofits.

White plate ↓ no marking	Red plate ↓ no marking	Room Side Wiring Plate ↓ (Required)
☐ G4TW	☐ G4TR	☐ GP10

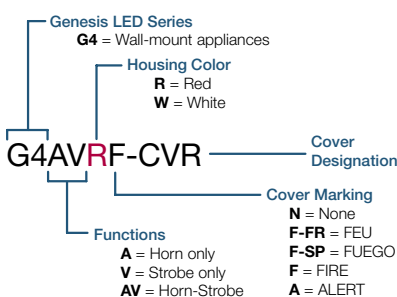
Replacement covers are available for all models. When ordering add -CVR to the model number.

Model Number Syntax, Appliances



* ALERT marking available on white strobe model with clear lens only. See replacement covers for more options.

Model Number Syntax, Replacement Covers



Genesis LED Series Ceiling Models

LED Strobes, Horns & Horn-Strobes

Genesis LED GC Series horns and LED strobes feature a sleek, low-profile design and energy-efficient technology that makes them less expensive to install and operate by reducing overhead. High-performance LEDs and patented electronics allow for more devices per loop and fewer booster power supplies. Genesis LED GC devices mount to the required GP10 room side wiring plate for installation. The GP10 mounting plate is ordered separately from the GC device in packs of 10 for convenient pre-installing and pre-wiring.

Genesis strobes offer 15 to 115 candela output, which is selectable with a conveniently located switch on the side of the device. The current is only 35mA VDC and 45mA VFWR for all light output settings. The candela output setting remains clearly visible even after final installation, yet it stays locked in place to prevent unauthorized tampering. (Data Sheet E85001-1021)

White housing ↓ no marking	White housing ↓ with "FIRE"	Red housing ↓ no marking	Red housing ↓ with "FIRE"
☐ GCVWN	☐ GCVWF	☐ GCVRN	☐ GCVRF

Genesis Horns reach output levels as high as 92 dB and feature a unique multiple-frequency tone that results in excellent wall penetration and an unmistakable warning of danger. Horns may be configured for either constant or temporal 3 output and high or low dB output with a conveniently located switch under the cover. No more cutting jumpers. Horns operate at 20mA VDC and 25mA VFWR on Low dB output and 30mA VDC and 40mA VFWR on High dB output. (Data Sheet E85001-1021)

White housing ↓ no marking	White housing ↓ with "FIRE"	Red housing ↓ no marking	Red housing ↓ with "FIRE"
☐ GCAWN	☐ GCAWF	☐ GCARN	☐ GCARF

Genesis Horn-strobes provide a low-profile design with horn output reaching as high as 92 dBA and as low as 80 dBA and have strobes that offer 15 to 115 candela output. Both the horn and strobe can be field configured with a switch, which is conveniently located on the side of the device. The candela output setting remains clearly visible even after final installation, yet it stays locked in place to prevent unauthorized tampering. Horns may be configured for either constant or temporal 3 output and high or low dB output. Horn-Strobes operate at 50mA VDC and 60mA VFWR on Low dB output and 60mA VDC and 75mA VFWR on High dB output for all light output settings. (Data Sheet E85001-1021)

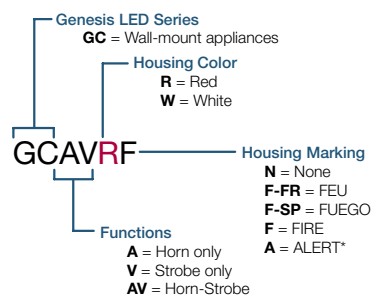
White housing ↓ no marking	White housing ↓ with "FIRE"	Red housing ↓ no marking	Red housing ↓ with "FIRE"
☐ GCAVWN	☐ GCAVWF	☐ GCAVRN	☐ GCAVRF

Accessories including required room side wiring plate and trim plates ideal for openings left behind during retrofits.

White plate ↓ no marking	Red plate ↓ no marking	Room Side Wiring Plate ↓ (Required)
☐ GCTW	☐ GCTR	☐ GP10

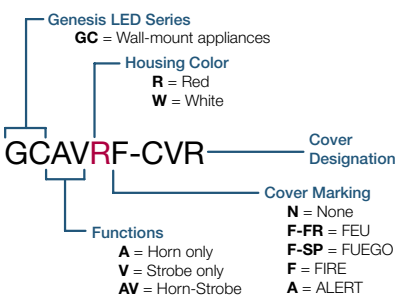
Replacement covers are available for all models. When ordering add -CVR to the model number.

Model Number Syntax, Appliances



Note: GC devices are designed for ceiling applications but are UL listed to be wall or ceiling mounted.

Model Number Syntax, Replacement Covers



SUBMIT



SUBMIT



Genesis LED Series Wall Models

LED Speakers & Speaker-Strobes

Genesis LED G4S Series speakers and speaker-strobes combine high performance output with a sleek low profile design and energy-efficient technology that makes them less expensive to install and operate. High performance LEDs require fewer power supplies, backup power, and batteries. These new appliances are designed with energy-efficiency, and life safety in mind. Understanding the content of the message is as important as knowing there is an emergency. Intelligibility is measured in Speech Transmission Index and anything above .76 is considered excellent. G4S Series speakers deliver audio with an STI of .81 ensuring the message is clear. They also meet NFPA and UL 520Hz requirements for sleeping areas making them ideal for new construction or retrofits. Genesis LED G4S appliances mount to the required GRSW-10 room side wiring plate for installation. The GRSW-10 mounting plate is ordered separately from the G4S device in packs of 10 for convenient pre-installing and pre-wiring.



Genesis Speakers feature selectable wattage taps that are visible after installation. Speakers are also capable of both 25V and 70V and voltage in a single model with a field selectable switch. Speakers meet NFPA and UL 520Hz requirements for sleeping areas and have an STI rating of .81 ensuring speakers deliver a clear, highly intelligible message. (Data Sheet E85001-1026)

White housing ↓ no marking	White housing ↓ with "FIRE"	Red housing ↓ no marking	Red housing ↓ with "FIRE"	White housing ↓ with "ALERT"
☐ G4SWN	☐ G4SWF	☐ G4SRN	☐ G4SRF	☐ G4SWA

Genesis Speaker-strobes feature selectable wattage taps, and allow for both wattage and light output levels to be configured in the field. Both settings remain clearly visible — even after final installation. Speakers are also capable of both 25V and 70V and voltage in a single model with a field selectable switch. Speakers meet NFPA and UL 520Hz requirements for sleeping areas and have an STI rating of .81 ensuring speakers deliver a clear, highly intelligible message. Speaker-strobes feature field-selectable 15, 30, 75, or 110 cd light output and have a constant current draw for all light output settings of 28mA for VDC and 36mA for VFWR. (Data Sheet E85001-1026)

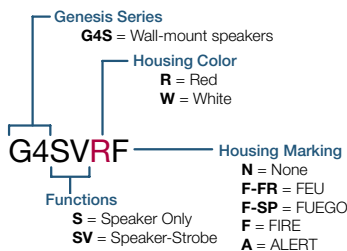
White housing ↓ no marking	White housing ↓ with "FIRE"	Red housing ↓ no marking	Red housing ↓ with "FIRE"	White housing ↓ with "ALERT"
☐ G4SVWN	☐ G4SVWF	☐ G4SVRN	☐ G4SVRF	☐ G4SVWA

Accessories including required room side wiring plate and trim plates ideal for openings left behind during retrofits.

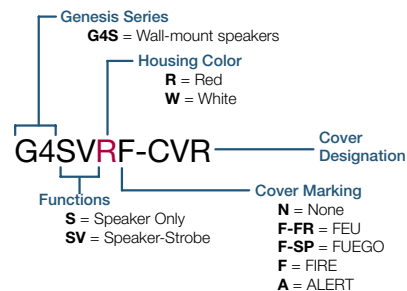
White plate ↓ no marking	Red plate ↓ no marking	Room Side Wiring Plate ↓ (Required)
☐ G4TW	☐ G4TR	☐ GRSW-10

Replacement covers are available for all models. When ordering add -CVR to the model number.

Model Number Syntax, Appliances



Model Number Syntax, Replacement Covers



Genesis LED Series Ceiling Models

LED Speakers & Speaker-Strobes

Genesis LED GCS Series speakers and speaker-strobes combine high performance output with a sleek low profile design and energy-efficient technology that makes them less expensive to install and operate. High performance LEDs require fewer power supplies, backup power, and batteries. These new appliances are designed with energy-efficiency, and life safety in mind. Understanding the content of the message is as important as knowing there is an emergency. Intelligibility is measured in Speech Transmission Index and anything above .76 is considered excellent. G4S Series speakers deliver audio with an STI of .81 ensuring the message is clear. They also meet NFPA and UL 520Hz requirements for sleeping areas making them ideal for new construction or retrofits. Genesis LED GCS appliances mount to the required GRSW-10 room side wiring plate for installation. The GRSW-10 mounting plate is ordered separately from the GCS device in packs of 10 for convenient pre-installing and pre-wiring.

Genesis Speakers feature selectable wattage taps that are visible after installation. Speakers are also capable of both 25V and 70V and voltage in a single model with a field selectable switch. Speakers meet NFPA and UL 520Hz requirements for sleeping areas and have an STI rating of .81 ensuring speakers deliver a clear, highly intelligible message.

(Data Sheet E85001-1025)

White housing ↓ no marking	White housing ↓ with "FIRE"	Red housing ↓ no marking	Red housing ↓ with "FIRE"	White housing ↓ with "ALERT"
☐ GCSWN	☐ GCSWF	☐ GCSRN	☐ GCSRF	☐ GCSWA

Genesis Speaker-strobes feature selectable wattage taps, and allow for both wattage and light output levels to be configured in the field. Both settings remain clearly visible — even after final installation. Speakers are also capable of both 25V and 70V and voltage in a single model with a field selectable switch. Speakers meet NFPA and UL 520Hz requirements for sleeping areas and have an STI rating of .81 ensuring speakers deliver a clear, highly intelligible message. Speaker-strobes feature field-selectable 15, 30, 75, or 115 cd light output and have a constant current draw for all light output settings of 35mA for VDC and 45mA for VFWR. (Data Sheet E85001-1025)

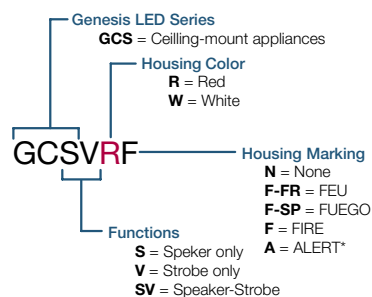
White housing ↓ no marking	White housing ↓ with "FIRE"	Red housing ↓ no marking	Red housing ↓ with "FIRE"	White housing ↓ with "ALERT"
☐ GCSVWN	☐ GCSVWF	☐ GCSVRN	☐ GCSVRF	☐ GCSVWA

Accessories including required room side wiring plate and trim plates ideal for openings left behind during retrofits.

White plate ↓ no marking	Red plate ↓ no marking	Room Side Wiring Plate ↓ (Required)
☐ GCTW	☐ GCTR	☐ GRSW-10

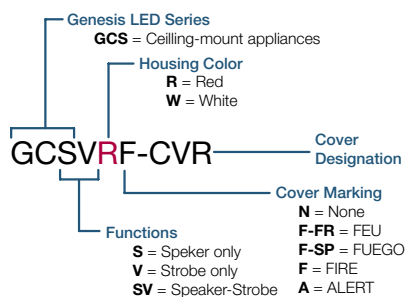
Replacement covers are available for all models. When ordering add -CVR to the model number.

Model Number Syntax, Appliances



* ALERT marking available on white strobe model with clear lens only. See replacement covers for more options.

Model Number Syntax, Replacement Covers



SUBMIT



Notification
Appliances

Hazardous Location
Devices

Door Holders
& Relays

SUBMIT



Genesis G4LF Series Wall Models



UL
compliant
signals for
sleeping
areas!

Low Frequency (520 Hz) Horns and Horn-Strobes

G4LF Series notification appliances provide the benefits of Genesis life safety signals with output suitable for sleeping areas and other applications requiring low frequency audible tones. These high-performance appliances generate a crisp 520 Hz tone in the standard 3-3 temporal pattern. An optional setting configures the appliance for continuous audible output — a critical feature for notification appliance circuits that are coded with a CDR-3 coder module. All G4LF appliances feature field-configurable high and low dB output settings. Horn-Strobe models feature field-selectable 15, 30, 75, or 110 cd output settings.

☐	G4LFWN-HVM	Horn-Strobe, 520 Hz, White Housing, No Marking, 15/30/75/110 cd	Data Sheet E85001-0639
☐	G4LFWF-HVM	Horn-Strobe, 520 Hz, White Housing, FIRE Marking, 15/30/75/110 cd	Data Sheet E85001-0639
☐	G4LFRN-HVM	Horn-Strobe, 520 Hz, Red Housing, No Marking, 15/30/75/110 cd	Data Sheet E85001-0639
☐	G4LFRF-HVM	Horn-Strobe, 520 Hz, Red Housing, FIRE Marking, 15/30/75/110 cd	Data Sheet E85001-0639
☐	G4LFWN-H	Horn, 520 Hz, White Housing, No Marking	Data Sheet E85001-0639
☐	G4LFWF-H	Horn, 520 Hz, White Housing, FIRE Marking	Data Sheet E85001-0639
☐	G4LFRN-H	Horn, 520 Hz, Red Housing, No Marking	Data Sheet E85001-0639
☐	G4LFRF-H	Horn, 520 Hz, Red Housing, FIRE Marking	Data Sheet E85001-0639

Mass Notification Appliances

White housings No "Running Man" Icon	Clear lens ↓ no marking	Clear lens ↓ with "ALERT"	Amber lens ↓ no marking	Amber lens ↓ with "ALERT"
☐ Strobe, four standard cd settings	☐ GCWN-VMC	☐ GCWA-VMC	☐ GCWN-VMA	☐ GCWA-VMA
☐ Strobe, four high output cd settings	☐ GCWN-VMHC	☐ GCWA-VMHC	☐ GCWN-VMHA	☐ GCWA-VMHA

Genesis WG4 Series Wall Models

Weatherproof Horns and Horn-Strobes

Genesis WG4 Series horns and horn-strobes are among the most versatile emergency signals of their kind. Rated for indoor or outdoor use, they are suitable for a wide range of wet and harsh environments with a listed operating temperature range of as low as -31°F to as high as 151°F (-35°C to 66°C).

Refer to Data Sheet E85001-0628 -- Genesis Outdoor Horns and Strobes for details.

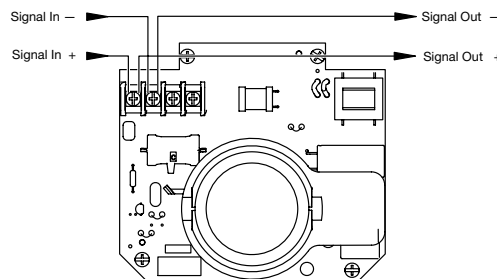


SUBMIT



Field Configuration

Genesis WG4 strobes feature four selectable light output settings. Cd selections are changed by removing the cover and simply sliding the switches to the desired setting, which remains visible through a small window on the front of the device after the cover is replaced. Genesis Horn-strobes may also be configured for high or low dB output and temporal flash. This battery-saving feature is intended for private mode signaling only.



--/+ designations indicate the signal polarity required to activate the device.



Light Output

Standard Candela Horn-strobes

Standard/rating		Strobe Switch Position			
		D	C	B	A
UL 1971	Indoor	15 cd	29 cd	70 cd	87 cd
UL 1638	Outdoor @ -35°C	6 cd	12 cd	28 cd	35 cd
CAN/ULC-S526	Outdoor @ -40°C	1 cd	3 cd	8 cd	10 cd

High Candela Horn-strobes

Standard/rating		Strobe Switch Position			
		D	C	B	A
UL 1971	Indoor	102cd	123cd	147cd	161cd
UL 1638	Outdoor @ -35°C	41cd	50 cd	60 cd	65 cd
CAN/ULC-S526	Outdoor @ -40°C	11 cd	14 cd	17 cd	18 cd

White housing ↓ no marking	White housing ↓ with "FIRE"	Red housing ↓ no marking	Red housing ↓ with "FIRE"	Outdoor Fire Alarm Appliances
☐ WG4WN-H	☐ WG4WF-H	☐ WG4RN-H	☐ WG4RF-H	Horn Only
☐ WG4WN-HVMC	☐ WG4WF-HVMC	☐ WG4RN-HVMC	☐ WG4RF-HVMC	Horn-Strobe, standard cd output
☐ WG4WN-HVMHC	☐ WG4WF-HVMHC	☐ WG4RN-HVMHC	☐ WG4RF-HVMHC	Horn Only, high cd output

WG4 Mounting Accessories

☐ WG4WTS (white)	☐ WG4RTS (red)	Surface Skirt for Genesis WG4 Appliances
☐ 74347U (white)	☐ 449 (red)	Surface mount box, outdoor rated
☐ WG4GSKT		Genesis WG4 Full Body Mounting Gasket for Smooth Surfaces

For Audible Sounder Bases, see *Intelligent Initiating Devices*.

SUBMIT



Genesis Series Wall Models

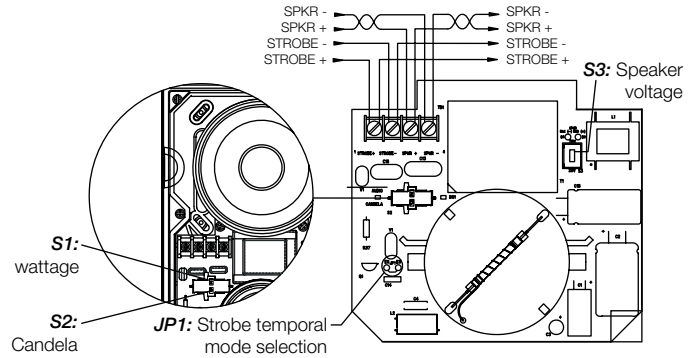
Outdoor Speakers and Speaker-Strobes

Genesis WG4 Series speakers and speaker-strobes are among the most versatile emergency signals of their kind. Rated for indoor or outdoor use, they are suitable for a wide range of wet and harsh environments with a listed operating temperature range of as low as -31°F to as high as 151°F (-35°C to 66°C).

Refer to Data Sheet E85001-0626 -- Genesis Outdoor Speakers and Strobes for details.

Field Configuration

Genesis WG4 speakers may be set 70- or 25-Volt operation, and for ¼, ½, 1, or 2 watt operation. Strobe models feature four selectable light output settings. Wattage and cd selections are changed by removing the cover and simply sliding the switches to the desired settings, which remain visible through a small window on the front of the device after the cover is replaced. Genesis speaker-strobes may also be configured for temporal flash. This battery-saving feature is intended for private mode signaling only. To set the device for temporal flash, snip the jumper at JP1.



White housing ↓ no marking	White housing ↓ with "FIRE"	Red housing ↓ no marking	Red housing ↓ with "FIRE"	Fire Alarm Speakers
☐ WG4WN-S	☐ WG4WF-S	☐ WG4RN-S	☐ WG4RF-S	25/70 V Speaker
☐ WG4WN-SVMC	☐ WG4WF-SVMC	☐ WG4RN-SVMC	☐ WG4RF-SVMC	25/70 V Speaker-strobe (15/29/70/87 cd)
	☐ WG4WF-SVMHC	☐ WG4RN-SVMHC	☐ WG4RF-SVMHC	25/70 V Speaker-strobe (102/123/147/161 cd)

Genesis mass notification speakers and speaker-strobes bring the same high-performance fire alarm features and unobtrusive design to mass notification applications. Available with amber lenses and optional "ALERT" lettering, they are ideal for applications that require differentiation between fire alarm and mass notification alerts.

White housing ↓ no marking	White housing ↓ "ALERT"	Mass Notification Speakers — white housing, no "Running Man" icon
☐ WG4WN-SVMA	☐ WG4WA-SVMA	25/70 V Speaker-strobe, amber lens (13/25/5962 cd output)
☐ WG4WN-SVMHA	☐ WG4WA-SVMHA	25/70 V Speaker-strobe, amber lens (84/101/125/130 cd output)
	☐ WG4WA-SVMC	25/70 V Speaker-strobe, clear lens (15/29/70/87 cd output)
☐ WG4WN-SVMHC	☐ WG4WA-SVMHC	25/70 V Speaker-strobe, clear lens (102/123/147/161 cd output)
	☐ WG4WA-S	25/70 V Speaker

Trim skirts

☐ WG4WTS (white)	☐ WG4RTS (red)	Surface Skirt for Genesis WG4 appliance family.
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Mass Notification

High Power Speaker Arrays



Hyperspike High Power Speaker Arrays (HPSA) employ exclusive technology that delivers lightweight and acoustically sophisticated solutions for outdoor mass notification installations. These rugged units are among the industry's smallest in physical size, yet they reproduce some of the clearest (up to 0.91 STI, source-dependant) and loudest (up to 126 dBA Fast @ 1m) audio signals available. Loudspeaker heads are as small as 13.2" (33.5 cm) in diameter and 24.7" (62.7 cm) in height. A single panel unit weighs as little as 16 lb (7.3 kg).

Hyperspike assemblies are AC powered with DC backup. They come with a lockable NEMA 4 Electronics Control Cabinet (ECC) that holds the amplifier and battery charger, and a lockable NEMA 4 battery enclosure. Loudspeakers come pre-assembled with an eight foot (2.4 meter) 3/4-inch liquid-tight flexible conduit whip and wire leads. Batteries and battery enclosures are ordered separately.

▼ Color: Tan	▼ Color: Gray	HPSA Assemblies			
1600 Watt Class					
☐ MN-HSHT16P5N	☐ MN-HSHG16P5N	1600 Watts, 360° Dispersion, 5 Active Panels	Data Sheet E85001-0637	☐	
☐ MN-HSHT16P3N	☐ MN-HSHG16P3N	960 Watts, 230° Dispersion, 3 Active Panels	Data Sheet E85001-0637	☐	
☐ MN-HSHT16P2N	☐ MN-HSHG16P2N	640 Watts, 185° Dispersion, 2 Active Panels	Data Sheet E85001-0637	☐	
☐ MN-HSHT16P1N	☐ MN-HSHG16P1N	320 Watts, 120° Dispersion, 1 Active Panel	Data Sheet E85001-0637	☐	
3200 Watt Class					
☐ MN-HSHT32P5N	☐ MN-HSHG32P5N	3200 Watts, 360° Dispersion, 5 Active Panels	Data Sheet E85001-0637	☐	
☐ MN-HSHT32P3N	☐ MN-HSHG32P3N	1920 Watts, 230° Dispersion, 3 Active Panels	Data Sheet E85001-0637	☐	
☐ MN-HSHT32P2N	☐ MN-HSHG32P2N	1280 Watts, 185° Dispersion, 2 Active Panels	Data Sheet E85001-0637	☐	
☐ MN-HSHT32P1N	☐ MN-HSHG32P1N	640 Watts, 120° Dispersion, 1 Active Panel	Data Sheet E85001-0637	☐	
6400 Watt Class					
☐ MN-HSHT64P5N	☐ MN-HSHG64P5N	6400 Watts, 360° Dispersion, 5 Active Panels	Data Sheet E85001-0637	☐	
☐ MN-HSHT64P3N	☐ MN-HSHG64P3N	3840 Watts, 230° Dispersion, 3 Active Panels	Data Sheet E85001-0637	☐	
☐ MN-HSHT64P2N	☐ MN-HSHG64P2N	2560 Watts, 185° Dispersion, 2 Active Panels	Data Sheet E85001-0637	☐	
☐ MN-HSHT64P1N	☐ MN-HSHG64P1N	1280 Watts, 120° Dispersion, 1 Active Panel	Data Sheet E85001-0637	☐	

SUBMIT



Mass Notification

Medium Power Speaker Arrays



The EDWARDS HyperSpike® Series TPCA-10 is intended for indoor and outdoor audio signaling and notification. Its best-in-class acoustic coverage allows for fewer units to be installed in large indoor and outdoor areas, lowering installation and long-term maintenance costs, while also improving intelligibility and aesthetics.

	↓	Color:	MPSA Assemblies	
☐	☐ 90215A-801-01-L	☐ Black	UL 1480 listed C1D2 certified TPCA-10 Distributed Audio Speaker with 5 selectable power taps that run off of 25V, 70V and 100 VRMS audio systems	Data Sheet E85001-0669
☐	☐ 90215A-801-04-L	☐ Gray	UL 1480 listed C1D2 certified TPCA-10 Distributed Audio Speaker with 5 selectable power taps that run off of 25V, 70V and 100 VRMS audio systems	Data Sheet E85001-0669
☐	☐ 90215A-801-05-L	☐ Red	UL 1480 listed C1D2 certified TPCA-10 Distributed Audio Speaker with 5 selectable power taps that run off of 25V, 70V and 100 VRMS audio systems	Data Sheet E85001-0669
☐	☐ 90215A-801-06-L	☐ White	UL 1480 listed C1D2 certified TPCA-10 Distributed Audio Speaker with 5 selectable power taps that run off of 25V, 70V and 100 VRMS audio systems	Data Sheet E85001-0669

EDWARDS brand Hyperspike Series Medium Power loudspeakers employ exclusive HyperSpike technology to deliver lightweight and acoustically sophisticated solutions for large indoor and smaller outdoor mass notification installations.



UL Listed 250-Watt Medium Power Speaker Arrays

EDWARDS brand Model 250 Hyperspike Series UL Listed Medium Power loudspeakers employ HyperSpike® technology to deliver lightweight and acoustically sophisticated solutions for large indoor and smaller outdoor mass notification installations. These UL Listed units are omni-directional loudspeakers that produce 360 degrees of acoustic energy. The high fidelity output remains intelligible over up to a quarter mile from the device. It is rated for indoor or outdoor use. The include four wattage taps: 40 W, 90 W, 125 W, and 250 W.

☐	MN-HSMT25P5N	250-Watt Medium Power Speaker Array, tan housing.	Data Sheet E85001-0652
☐	MN-HSMG25P5N	250-Watt Medium Power Speaker Array, gray housing.	Data Sheet E85001-0652
☐	MN-HSMR25P5N	250-Watt Medium Power Speaker Array, red housing.	Data Sheet E85001-0652



Omnidirectional 650-Watt Loudspeakers

The MN-HSMP650 Series has a 360° omnidirectional sound dispersion pattern and can handle 650 Watts of crystal-clear audio power. It is rated for indoor and outdoor use and hangs from eyebolts or is mounted to a two-inch OD mast.

MN-HSMP650G	Loudspeaker assembly, 650 Watt, Gray Housing.	Data Sheet E85001-0638	☐
MN-HSMP650P5T	Loudspeaker assembly, 650 Watt, Tan Housing.	Data Sheet E85001-0638	☐



Omnidirectional Indoor-rated 300-Watt Loudspeakers

The MN-HSMP300DF is a grey indoor-rated omnidirectional unit rated for 300 Watts of continuous audio power. These units are eyebolt-mounted.

MN-HSMP300DF1	Omnidirectional Loudspeaker, 300 Watt.	Data Sheet E85001-0638	☐
MN-HSMP300DF170	Omnidirectional Loudspeaker, 300 Watt with 70.7 VRMS transformer.	Data Sheet E85001-0638	☐



Directional 200-Watt Loudspeakers

The MN-HSMP200D is a directional loudspeaker that handles 200 Watts of continuous audio. Units feature 60° x 30° sound dispersion and are suitable for indoor or outdoor applications. They come complete with mounting bracket.

MN-HSMP200D1	Directional Loudspeaker, 200 Watt.	Data Sheet E85001-0638	☐
MN-HSMP200D170	Directional Loudspeaker, 200 Watt with 70.7 VRMS transformer.	Data Sheet E85001-0638	☐



Portable Loudspeaker System

The MN-HSPB is a self-contained, portable loudspeaker system that weighs a mere 15 lbs. Despite its light weight, the MN-HSPB packs a peak acoustic output of 144dB for an intelligible communication range of more than 2,450 feet (750 m).

MN-HSPB-S	HS Series Portable Handheld Speaker - Standard Output	Data Sheet E85001-0653	☐
MN-HSPB-H	HS Series Portable Handheld Speaker - High Output	Data Sheet E85001-0653	☐

SUBMIT



UL Listed HyperSpike LineWave Loudspeakers

Designed with the latest technology in line array speaker systems, the EDWARDS HyperSpike® LineWave loudspeaker is optimized to produce clear and authoritative voice commands and powerful tones never before possible within reverberant environments. The beam forming capability of the LineWave loudspeaker allows even coverage across the listening plane while focusing the acoustic pattern away from surfaces that cause unwanted reflections. This technology is essential for achieving optimum levels of speech intelligibility within reverberant spaces. The result is clear and intelligible direct sound that ensures critical messages are heard and understood.

☐	90243A-801-01-L	LineWave line array speaker 2 Black	Data sheet E85001-0659
☐	90243A-802-01-L	LineWave line array speaker 4 Black	Data sheet E85001-0659
☐	90243A-803-01-L	LineWave line array speaker 8 Black	Data sheet E85001-0659
☐	90243A-804-01-L	LineWave line array speaker 16 Black	Data sheet E85001-0659
☐	90243A-801-05-L	LineWave line array speaker 2 Red	Data sheet E85001-0659
☐	90243A-802-05-L	LineWave line array speaker 4 Red	Data sheet E85001-0659
☐	90243A-803-05-L	LineWave line array speaker 8 Red	Data sheet E85001-0659
☐	90243A-804-05-L	LineWave line array speaker 16 Red	Data sheet E85001-0659
☐	90243A-801-06-L	LineWave line array speaker 2 White	Data sheet E85001-0659
☐	90243A-802-06-L	LineWave line array speaker 4 White	Data sheet E85001-0659
☐	90243A-803-06-L	LineWave line array speaker 8 White	Data sheet E85001-0659
☐	90243A-804-06-L	LineWave line array speaker 16 White	Data sheet E85001-0659
☐	90243A-801-07-L	LineWave line array speaker 2 Gray	Data sheet E85001-0659
☐	90243A-802-07-L	LineWave line array speaker 4 Gray	Data sheet E85001-0659
☐	90243A-803-07-L	LineWave line array speaker 8 Gray	Data sheet E85001-0659
☐	90243A-804-07-L	LineWave line array speaker 16 Gray	Data sheet E85001-0659
☐	72581B-801	LineWave line array speaker pole mount kit	Data sheet E85001-0659
☐	72575B-801-L	LineWave 25V/70V/100V Transformer 2/4 speaker	Data sheet E85001-0659
☐	72542B-801-L	LineWave 25V/70V/100V Transformer 8 speaker	Data sheet E85001-0659
☐	72542B-802-L	LineWave 25V/70V/100V Transformer 16 speaker	Data sheet E85001-0659



Audible Signals



Fire Alarm Bells

EDWARDS fire alarm bells are of the underdome type with heavy-duty mechanisms. Gongs are made of selected alloy steel to generate the loud, resonant tones. For weatherproof application, optional surface weatherproof backboxes are available.

☐ 323D-10AW (Grey)	☐ 323D-10AW-R (Red)	10-inch Single Stroke, Diode — 20-24Vdc	Data Sheet E85001-0333	☐
☐ 439D-6AW (Grey)	☐ 439D-6AW-R (Red)	6-inch Vibrating, Diode — 20-24Vdc	Data Sheet E85001-0333	☐
☐ 439D-10AW (Grey)	☐ 439D-10AW-R (Red)	10-inch Vibrating, Diode — 20-24Vdc	Data Sheet E85001-0333	☐



Multiple Tone Signal

The 5530MD-24AW is a weatherproof heavy-duty industrial, tone-selectable, signaling device capable of producing volume-controlled, high-decibel tones. It uses a microprocessor circuit to create 27 distinctive tones. A single tone may be selected by setting a miniature dip switch within the unit.

5530MD-24AW	27-Tone Selectable Signal — 24Vdc	Data Sheet E85001-0415	☐
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Multi-purpose Loudspeaker

The HPSA15 loudspeaker is a high-efficiency double re-entrant loudspeaker that operates within a nominal frequency response range of 400-14,000 Hz, and provides audible output of 120 dB (peak at one meter) at the rated power level. It includes a versatile, three-way, 25/70.7 V line transformer that meets a variety of distributed system needs. The transformer is adjustable by means of a convenient seven-position, watts/impedance selection switch.

HPSA15R2570	15-watt loudspeaker, red	Data Sheet E85001-0591	☐
HPSA15G2570	15-watt loudspeaker, gray	Data Sheet E85001-0591	☐

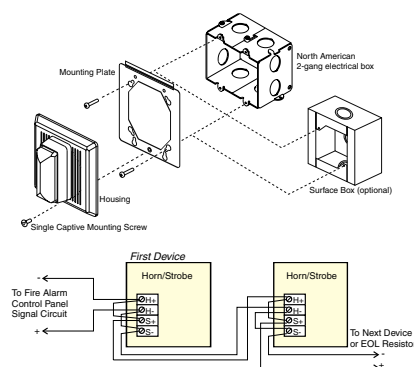
SUBMIT



Enhanced Integrity Series

Harsh Environment Signals

All Enhanced Integrity devices are UL 1971 listed for both wall and ceiling orientation. Enhanced Integrity strobes meet the latest UL1971 synchronization requirements when used with the G1M Signal Master. Integrity devices are shipped with wall mount style "FIRE" lens markings. Other lens markings are available.



Re-Entrant Speakers and Speaker-Strobes

Re-entrant speakers feature a sealed, high efficiency compression driver that's both weatherproof and vermin proof. This makes them ideal for public places and outdoor areas such as parking garages and transport terminals. All Integrity speakers include a DC Blocking Capacitor that permits electrical supervision of the audio distribution circuit. Models for 25V_{RMS} and 70V_{RMS} circuits are available.

Fire Alarm Appliances, clear lenses, Data Sheet E85001-0317

↓ 15/75 cd	↓ 30 cd	↓ 110 cd	↓ Speaker only
☐ 757-7A-RS25	☐ 757-3A-RS25	☐ 757-8A-RS25	☐ 757-1A-R25
☐ 757-7A-RS25W	☐ 757-3A-RS25W	☐ 757-8A-RS25W	☐ 757-1A-R25W
☐ 757-7A-RS70	☐ 757-3A-RS70	☐ 757-8A-RS70	☐ 757-1A-R70
☐ 757-7A-RS70W	☐ 757-3A-RS70W	☐ 757-8A-RS70W	☐ 757-1A-R70W

Mass Notification Appliances, amber lenses, Data Sheet E85001-0317

☐ 757-7A-RS25WA (12/75 cd)	☐ 757-8A-RS25WA (88 cd)
☐ 757-7A-RS70WA (12/75 cd)	☐ 757-8A-RS70WA (88 cd)



Temporal Horns and Horn-Strobes

During installation, the Horn is configured for steady or temporal tone signal. When temporal output is selected, all Horns on a common two-wire circuit are self-synchronized. Integrity Series Horns emit a low frequency "growling" tone that demands attention. Horns can be configured for either high output (98 dBA) or low output (94 dBA); and are listed for outdoor use.

☐ 757-1A-T (Red)	☐ 757-1A-TW (White)	Temporal Horn	Data Sheet E85001-0341
☐ 757-7A-T (Red)	☐ 757-7A-TW (White)	Temporal Horn-Strobe, 15/75cd	Data Sheet E85001-0341
☐ 757-4A-T (Red)	☐ 757-4A-TW (White)	Temporal Horn-Strobe, 75cd	Data Sheet E85001-0341
☐ 757-8A-T (Red)	☐ 757-8A-TW (White)	Temporal Horn-Strobe, 110cd	Data Sheet E85001-0341



4" Square Box Mount Strobes

405 Series strobes are self-synchronized to flash at one fps across their full operating voltage range. UL 1971 synchronization requirements are achieved when used with the G1M Signal Master. Strobes must be connected to signal circuits that output a constant (not pulsed) voltage. A diode is used to allow full signal circuit supervision. 405 Series strobes are suitable for outdoor use and installed to a standard four-inch square electrical box.

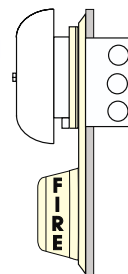
☐ 405-5A-T (Red)	☐ 405-5A-TW (White)	Strobe - 15 cd	Data Sheet E85001-0305
☐ 405-7A-T (Red)	☐ 405-7A-TW (White)	Strobe - 15/75	Data Sheet E85001-0305
☐ 405-3A-T (Red)	☐ 405-3A-TW (White)	Strobe - 30 cd	Data Sheet E85001-0305
☐ 405-6A-T (Red)	☐ 405-6A-TW (White)	Strobe - 60 cd	Data Sheet E85001-0305
☐ 405-8A-T (Red)	☐ 405-8A-TW (White)	Strobe - 110 cd	Data Sheet E85001-0305
☐ CS-405-7A-T (15/75 cd)	☐ CS-405-8A-T (110 cd)	Strobe - Weatherproof (red)	Data Sheet E85001-0305

Accessories



Bell/Strobe Plate

The bell/strobe plate is ideal for renovation and retrofit projects, and new construction. It is equipped with an EDWARDS self-synchronizing strobe and is designed to allow on-site mounting of the 439 series Vibrating Bell, providing instant conversion to Bell/Strobe audible/visual signal appliances. The strobe is designed for 20 to 24Vdc operation and must be connected to signal circuits which output a constant (not pulsed) voltage. A diode is used to allow full signal circuit supervision.



☐ 403-5A-R (15 cd) ☐ 403-7A-R (15/75 cd) ☐ 403-3A-R (30 cd) ☐ 403-8A-R (110 cd)

Data Sheet E85001-0441

Genesis Signal Master

The Signal Master adds enhanced features to Genesis and Integrity strobes and Horn-Strobes. It is a dual-purpose module that provides UL 1971 required precision synchronization for connected Integrity and Genesis strobes, and independent control for connected Genesis Horns over a single pair of wires.



Snap-on
(piggyback) model



Remote 1-gang
mount model

G1M	Genesis Signal Master – Snap-on (piggyback)	Data Sheet E85001-0545	☐
G1M-RM	Genesis Signal Master – Remote 1-Gang Mount	Data Sheet E85001-0545	☐

Integrity Lens Marking Kits

Integrity strobes are shipped with wall mount style “FIRE” lens markings. Where ceiling mount, other languages or different lens markings are required, optional LKW and LKC series Lens Marking Kits are available. Lens marking sleeves snap right over the strobe lens providing a quick, easy, change.



☐ LKW-1R (Wall orientation)	“FIRE” (Red)	
☐ LKW-1 (Wall orientation)	☐ LKC-1 (Ceiling orientation)	“FIRE”
☐ LKW-2 (Wall orientation)	☐ LKC-2 (Ceiling orientation)	“FEU”
☐ LKW-3 (Wall orientation)	☐ LKC-3 (Ceiling orientation)	“FIRE/FEU”
☐ LKW-4 (Wall orientation)	☐ LKC-4 (Ceiling orientation)	“SMOKE”
☐ LKW-5 (Wall orientation)	☐ LKC-5 (Ceiling orientation)	“HALON”
☐ LKW-6 (Wall orientation)	☐ LKC-6 (Ceiling orientation)	“CO2”
☐ LKW-7 (Wall orientation)	☐ LKC-7 (Ceiling orientation)	“EMERGENCY”
☐ LKW-8 (Wall orientation)	☐ LKC-8 (Ceiling orientation)	“ALARM”
☐ LKW-9 (Wall orientation)	☐ LKC-9 (Ceiling orientation)	“FUEGO”
☐ LKW-10 (Wall orientation)	☐ LKC-10 (Ceiling orientation)	“ALERT”

Mounting Accessories

Integrity Temporal Horn, Horn/strobe

- ☐ 757A-SB Surface Box, Red, Indoor
- ☐ 757A-SBW Surface Box, White, Indoor
- ☐ 757A-WB Weatherproof Box, Red, Surface
- ☐ 757A-WBW Weatherproof Box, White, Surface

Integrity Speakers, Speaker/strobes

- ☐ 960A-4SF Flush Box, Indoor
- ☐ 757A-SB Surface Box, Red, Indoor
- ☐ 757A-SBW Surface Box, White, Indoor

Integrity Re-entrant speakers, Speaker/strobes

- ☐ 960A-4SF Flush Box, Indoor
- ☐ 757A-SB Surface Box, Red, Indoor
- ☐ 757A-SBW Surface Box, White, Indoor
- ☐ 757A-WB Weatherproof Box, Red, Surface
- ☐ 757A-WBW Weatherproof Box, White, Surface

Integrity Chimes, Chime/strobes

- ☐ 757A-SB Surface Box, Red, Indoor
- ☐ 757A-SBW Surface Box, White, Indoor

Genesis Signals

- ☐ 27193-11 Horn-strobe Surface Box, Red, Indoor
- ☐ 27193-16 Horn-strobe Surface Box, White, Indoor
- ☐ G4RB Speaker Surface Box, Red, Indoor
- ☐ G4B Speaker Surface Box, White, Indoor
- ☐ G4ERB G4 Dual-strobe Format Surface box, Red
- ☐ G4EWB G4 Dual-strobe Format Surface box, White

Horn/siren Combination

- ☐ 349 Weatherproof Backbox

Fire Alarm Bells and CS-405 Series

- ☐ 449 Weatherproof Backbox



Genesis G4B
Speaker
Surface Box

SUBMIT





Hazardous Location Devices

EDWARDS hazardous location devices provide reliable life safety protection and emergency signaling in areas where atmospheres could become harsh or explosive. All hazardous location devices are UL rated under the full range of classifications set out in the National Electrical Code.

The following classification definitions are an interpretive summary based on the latest edition of the National Electrical Code (NEC, NFPA 70). Refer to the latest editions of NFPA 497M, NFPA 70 and the UL Hazardous Location Equipment Directory for current and more detailed information. For more information on NEMA classifications, refer to NEMA Standards Publication No. 250.

Hazardous Location Classifications

Classes

Class I - Hazardous Gases. Class I locations are areas in which flammable gases or vapors are or may be present in the air in quantities sufficient to produce explosive or ignitable mixtures.

Typical Class I Hazardous Areas

- Spray painting and finishing areas
- Utility gas plants
- Petroleum refining production plants
- Petroleum dispensing locations
- Dry cleaning facilities
- Dip tanks containing combustibles or flammable liquids
- Plant facilities extracting solvents
- Inhalation anesthetics areas
- Process facilities manufacturing pyroxylin type plastics

Class II - Hazardous Dusts. Class II locations represent areas that are hazardous due to the presence of combustible dust.

Typical Class II Hazardous Areas

- Flour mills
- Feed mills
- Grain elevators and grain handling facilities
- Aluminum manufacturing and storage areas
- Magnesium manufacturing and storage areas
- Coal preparation and handling facilities
- Starch manufacturing and storage areas
- Confectionery plants
- Pulverizer sugar and cocoa manufacturing, and storage plants
- Spice grinding and storage plants

Class III - Hazardous Fibers. Class III locations have easily ignitable fibers or flyings present, but not likely to be suspended in air in quantities sufficient to produce ignitable mixtures in the atmosphere.

Typical Class III Hazardous Areas

- Textile mills
- Woodworking plants*
- Furniture manufacturers*
- Cotton gins
- Cotton seed milling plants
- Flax plants
- Carpet manufacturers

* Except if wood flour (dust), which is Class II Group G, is present

Divisions

The Location Classes are broken down by the NFPA into Divisions 1 and 2, defining different levels of risk. In general, the risk of there being a hazardous presence of flammable/combustible/ignitable materials is higher for Division 1 than for Division 2. The specifics differ between the three classes (I, II and III). Equipment suitable for Division 1 is also suitable for Division 2 locations.

Groups

Class I and II locations are divided by the NFPA into Group designations identifying specific gases, vapors and dusts by characteristic similarities that relate to specific equipment construction requirements. Class III locations are not divided into separate group designations.

Class I Groups

Group A. Atmospheres containing acetylene.

Group B. Atmospheres containing hydrogen, fuel and combustible process gases containing more than 30 percent hydrogen by volume, or gases or vapors of equivalent hazard such as butadiene, ethylene oxide, propylene oxide, and acrolein.

Group C. Atmospheres such as ethyl ether, ethylene, or other gases or vapors of equivalent hazard.

Group D. Atmospheres containing acetone, ammonia, benzene, butane, cyclopropane, ethanol, gasoline, hexane, methanol, methane, natural gas, naphtha (petroleum), propane, or gases or vapors of equivalent hazard.

Class II Groups

Group E. Atmospheres containing combustible metal dusts, including aluminum, magnesium, and their commercial alloys, or other combustible dusts whose particle size, abrasiveness and conductivity present similar hazards in the use of electrical equipment.

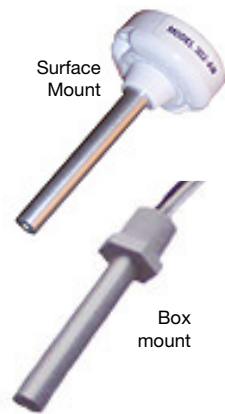
Group F. Atmospheres containing combustible carbonaceous dusts, including carbon black, charcoal, coal, or dusts that have been sensitized by other materials so that they present an explosion hazard.

Group G. Atmospheres containing combustible dusts not included in Group E or F, including flour, grain, wood, plastic, and chemicals.



Initiating Devices

Rate Compensation Heat Detectors



Series 302 heat detectors are designed for use in normal environments as well as environments where the detectors are subject to weather, moisture (internal condensation), and explosive atmospheres. They are normally-open devices designed to close an electrical circuit upon activation. All models feature rate compensation and are available with either 135 °F (57.2 °C) or 194 °F (90 °C) ratings. They are self restoring, hermetically sealed, shock and corrosion resistant, and are tamperproof.

Sensor's Rated Temperature	Minimum Ambient Air Temperature	Maximum Ceiling Temperature
135 °F (57.2 °C)	-40 °F (-40 °C)	100 °F (38 °C)
194 °F (90 °C)	-40 °F (-40 °C)	150 °F (66 °C)

The sensor's aluminum tube acts as a heat collector when sources of heat radiate directly on the tube. Install these sensors out of direct sunlight and away from radiating heat sources including the direct flow from heaters and heat ducts.

302-AW-135	All-weather Heat Detector - Vertical Mounting FM & UL, 135 °F (57.2 °C)	Data Sheet E85001-0589	☐
302-AW-194	All-weather Heat Detector - Vertical Mounting FM & UL, 194°F (90 °C)	Data Sheet E85001-0589	☐
302-ET-135	All-weather Heat Detector - Vertical, Box Mount (½" NPT), FM & UL, 135 °F (57.2 °C)	Data Sheet E85001-0589	☐
302-ET-194	All-weather Heat Detector - Vertical, Box Mount (½" NPT), FM & UL, 194°F (90 °C)	Data Sheet E85001-0589	☐
302-EPM-135	Heat Detector - Explosionproof Mounting UL (Not FM approved), 135 °F (57.2 °C)	Data Sheet E85001-0589	☐
302-EPM-194	Heat Detector - Explosionproof Mounting UL (not FM approved), 194°F (90 °C)	Data Sheet E85001-0589	☐
AP-P	Adaptor plate for mounting 302 and 302-AW to any 3" box or 4" octagon outlet box	Data Sheet E85001-0589	☐
JALX11	Explosion proof outlet body with cover - Killark	Data Sheet E85001-0589	☐

Explosionproof/weatherproof Manual Stations

MPSR Series explosionproof/weatherproof manual pull stations are noncoded fire alarm stations solidly constructed of die-cast material. They are rated for Class I Group B (hydrogen) C & D, Class II Groups E, F, G, Class III environments, and are rated NEMA 4X for outdoor use. Key and screw reset models feature terminal connections and come complete with backbox.



↓ Hex Screw Reset	↓ Cat 45 Key Reset	Manual Stations	Data Sheet E85001-0588	
☐ MPSR1-DHTWX-GE	☐ MPSR1-D45WX-GE	Explosionproof Single-action, SPST with backbox.		☐
☐ MPSR1-SHTW-GE	☐ MPSR1-S45W-GE	Weatherproof Single-action, SPST with backbox.		☐
☐ MPSR1-DHTW-GE	☐ MPSR1-D45W-GE	Weatherproof Single-action, DPDT with backbox.		☐
☐ MPSR2-SHTW-GE	☐ MPSR2-S45W-GE	Weatherproof Double-action, SPST with backbox.		☐
☐ MPSR2-DHTW-GE	☐ MPSR2-D45W-GE	Weatherproof Double-action, DPDT with backbox.		☐
☐ MPSR2-SHTW-GE-NYW	☐ MPSR2-S45W-GE-NYW	Weatherproof Double-action, SPST with backbox, NYC white stripe.		☐

For French markings add -F to the suffix of the model number. For bilingual French/English markings add -B to the suffix of the model number.

MPSR-LP	Double action cover for explosionproof manual stations	☐
MPSRGR10	Replacement glass rods for MPSR stations (10 pack).	☐
276-K1	Cat 45 Key (each)	☐

SUBMIT



Explosionproof Smoke Detector

Model 30-3013 detectors are high performance smoke detectors built for use in hazardous locations. They are corrosion-resistant and feature a non-conducting aluminum alloy retaining ring that protects the detector sensor against the effects of explosions and other catastrophic events. The retaining ring mounts securely to a companion junction box, which offers several common port configurations for conduit connection. Together, the ring and box provide a sturdy protective shell for the detector head.

☐	30-3013A1N12F	Explosionproof Smoke Detector	Data Sheet E85001-0645
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Notification Appliances

Hazardous Location Strobes

- Class I, II, or III locations

116DEGEX-FJ hazardous location strobes are life safety signaling appliances designed for installation in hazardous environments. State-of-the-art technology provide for high visual output and low maintenance. The 116DEGEX-FJ has negligible in-rush current. When pendant, wall or ceiling mounted, the 116DEGEX-FJ meets or exceeds the requirements of UL 1971 Signaling Appliance for the Hearing Impaired.



☐	116DEGEX-FJ	Explosionproof Strobe, Diode Polarized	Data Sheet E85001-0624
☐	116EX-B	Wall bracket mounting elbow (required for wall mount applications)	Data Sheet K85001-0624
☐	116EX-C	Ceiling/wall mounting module (required for wall mount applications)	Data Sheet K85001-0624
☐	116EX-P	Pendant mounting module - 3/4" (19 mm) NPT	Data Sheet E85001-0624
☐	116-GRD	Lens Guard	Data Sheet E85001-0624

Hazardous Location Bells

- Class I groups B, C and D locations
- Class II groups E, F and G locations
- Class III hazardous locations, for Divisions 1 and 2

430D series of hazardous location bells are diode-polarized, heavy duty fire bells for use in life safety applications where a diode supervised signal is required. They can be mounted to any solid surface using two 3/8 inch (10 mm) bolts and the supplied mounting brackets or to a rigid conduit. The integral explosion-proof housing is mechanically terminated to accept a standard 3/4 inch -14 National Pipe Taper (NPT) nipple.

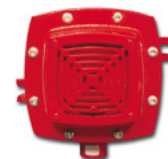


☐	☐ 439DEX-6AW (6")	☐ 439DEX-8AW (8")	☐ 439DEX-10AW (10")	Bell - 24 Vdc, Red	Data Sheet K85001-0399
☐	☐ 439DEX-6AW-R (6")	☐ 439DEX-8AW-R (8")	☐ 439DEX-10AW-R (10")	Bell - 24 Vdc, Grey	Data Sheet K85001-0399

Hazardous Location Horns

- Class I groups B, C and D locations
- Class II groups E, F and G locations
- Class III hazardous locations, for Divisions 1 and 2

888D and 889D hazardous location horns are diode-polarized, heavy duty, high decibel vibrating horns intended for use in life safety systems in hazardous (classified) locations. These horns may be mounted to any solid surface using two bolts. Each unit is supplied with a sealing fitting for a 3/4 inch -14 National Pipe Taper (NPT) nipple, and wire leads for the electrical connection to the life safety system notification appliance circuit.



☐	☐ 888D-N5 (120 Vac)	☐ 889D-AW (24 Vdc)	Horn - 120 Vac	Catalog Sheet: 85001-0397
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Door Holders



24 Vac 60 Hz
24 Vdc
120 Vac 60 Hz

Electromagnetic Door Holders

Electromagnetic door holders keep doors open until signaled by the fire alarm system, a heat detector, a smoke detector, or an electrical switch. Door holders should be installed wherever doors may be effectively used to confine smoke and fire, or where the release of a self-closing door from a remote location is required. Fail-safe operation is an inherent feature of these door holders. If power fails, doors are released automatically, but may be opened or closed manually at any time. All units are free of moving parts, are self-contained, and require no maintenance. Door holders have a holding force of approximately 15-25 Lbf (66-111N).

☐ 1501-AQN5 (Single Door)	☐ 1502-AQN5 (Double Door)	Floor Mounted	Data Sheet E85001-0421	☐
☐ 1504-AQN5 (Long Catch Plate)	☐ 1505-AQN5 (Short Catch Plate)	Flush Wall Mounted	Data Sheet E85001-0421	☐
☐ 1508-AQN5 (Surface)	☐ 1505-AQN9 (Completely flush)	Wall Mounted	Data Sheet E85001-0421	☐
☐ 1500-1 (1.5" Extension)	☐ 1500-2 (2.5" Extension)	Catch Plate	Data Sheet E85001-0421	☐
☐ 1500-7 (5.25 to 7.5" Extension)	☐ 1500-12 (7.5 to 12" Extension)	Catch Plate	Data Sheet E85001-0421	☐
☐ CS2595-5 (short)	☐ CS2598-5 (long)	Replacement Armature	Data Sheet E85001-0421	☐

Relays



Four-Voltage SPDT/DPDT Control Relays

MR Series multi-voltage control relays are ideal for applications where local contacts are required for system status, remote contacts, or for control of electrical loads and general purpose switching. They are suitable for use with HVAC temperature control, fire alarm, security, energy management, and lighting control systems. Relays provide 10-Amp contacts, which may be operated by one of four input control voltages. Each relay position contains a red LED that indicates the relay coil is energized. Relays may be snapped apart from a standard four-module assembly and used independently.

☐ MR101/T (with mounting hardware)	☐ MR101/C (in metal enclosure)	Single SPDT relay	Data Sheet E85300-02762	☐
☐ MR104/T (with mounting hardware)	☐ MR104/C (in metal enclosure)	4-position SPDT relay	Data Sheet E85300-02762	☐
☐ MR201/T (with mounting hardware)	☐ MR201/C (in metal enclosure)	Single DPDT relay	Data Sheet E85300-02762	☐
☐ MR204/T (with mounting hardware)	☐ MR204/C (in metal enclosure)	4-position DPDT relay	Data Sheet E85300-02762	☐



Heavy Duty DPDT Power Relays

MR-199 heavy duty power relays are designed for control applications where 30-Amp DPDT contacts are required. Two models are available: a 115Vac coil and a 24Vdc coil, each of which may be mounted in a rugged steel enclosure.

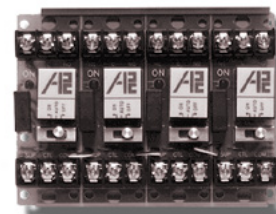
☐ MR199X13 (relay only)	☐ MR199X13/C (in metal enclosure)	Power Relay — 24 VDC	Data Sheet E85300-02765	☐
☐ MR199X14 (relay only)	☐ MR199X14/C (in metal enclosure)	Power Relay — 120 VDC	Data Sheet E85300-02765	☐

SUBMIT



SPDT Relays

Single-pull/double-throw relays are ideal for applications where local or remote contacts are required for control of electrical loads. They are suitable for use with HVAC, temperature control, fire alarm, security, energy management, and lighting control systems. Each relay position contains a high-intensity LED which, when illuminated, indicates the relay coil is energized. Individual relay circuits may be snapped apart from standard four- or eight-position modules, and are also available in a single-circuit configuration. The common power to each relay position is bussed on the printed wiring board, which permits power to be connected only once per multi-position module.



Single-Voltage Manual Override Relays

MR-600 series relays provide SPDT, 10-Amp contacts with manual override capability by means of an ON-AUTO-OFF switch. The relay requires a 24Vac or 24Vdc power source supplied by the controlling system. With the switch in the ON position the power relay is energized. With the switch in the AUTO position the relay is allowed to operate as signaled by the controlling system. With the switch in the OFF position the relay cannot be energized.

☐	☐ MR601/T (with mounting track)	Data Sheet E85300-02761
☐	☐ MR604/T (with mounting track)	Data Sheet E85300-02761
☐	☐ MR608/T (with mounting track)	Data Sheet E85300-02761

Three-Voltage Control Relays

MR-800 Series relays provide SPDT 10-Amp contacts that may be operated by one of three input control voltages: 24Vdc, 24Vac or 115Vac.

☐	☐ MR801/T (with mounting track)	☐ MR801/S (with mounting spacers) Single SPDT relay	Data Sheet E85300-02763
☐	☐ MR804/T (with mounting track)		Data Sheet E85300-02763
☐	☐ MR808/T (with mounting track)		Data Sheet E85300-02763

Four-Voltage Control Relays

MR-700 Series relays provide SPDT 10-Amp contacts that may be operated by one of four input control voltages: 12Vdc, 12Vac, 24Vdc, or 24Vac.

☐	☐ MR701/T (with mounting track)	☐ MR701/S (with mounting spacers) Single SPDT relay	Data Sheet E85300-02764
☐	☐ MR704/T (with mounting track)		Data Sheet E85300-02764
☐	☐ MR708/T (with mounting track)		Data Sheet E85300-02764



Three-Voltage Encapsulated Control Relays

PAM1 relays provide 10-Amp Form C contacts. The relay may be energized by one of three input voltages: 24Vac, 24Vdc, or 115Vac. The PAM1 may be mounted with double-sided adhesive tape, a self-tapping screw, or loosely placed in a backbox.

☐	PAM1	Encapsulated SPDT relay	Data Sheet E85300-02766
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Proven leadership.
Proud heritage.
Shared vision.

In 1872 when Robert Edwards installed an electrically-operated gas lamp igniter in a New York City church, he began a tradition of innovation that would chart the course of building safety and security for the next 140 years. Today the company that bears his name draws on this rich legacy of inventiveness, and benefits from fresh new alliances established with one underlying goal: uncompromised excellence.

Today EDWARDS meets this goal with quality products and an

exceptional sensitivity to the needs of our customers. Now we have access to the resources, talent, and experience that is already setting a coordinated plan for excellence into action. The result is a unique synergy sustained by a strong organization with a well-defined vision of the future.

That vision of excellence is why EDWARDS is among the fastest growing building systems providers today. It's also why, with more than a century of solid growth behind us, you can put your trust in EDWARDS.

See what's possible now.



EDWARDS Strategic Partners:

Innovation, leadership, and a rich tradition of excellence...

Whether EDWARDS life safety systems are protecting the lives and livelihoods of the people who make businesses run, or the lives entrusted to the care of public institutions; whether they're charged with protecting the guests of the world's finest hotels, or preserving irreplaceable artifacts that bring history to life; EDWARDS stands alone as the brand closely associated with some of the most important and far-reaching developments in the life safety industry today.

Our strength is in our Strategic Partners — the people and organizations we entrust with the technology that has charted the course of life safety protection for decades. Strategic Partners are not middlemen or go-betweens. They are independent contractors who add value to the EDWARDS life safety solution. As insiders, they enjoy exclusive access to products, custom design innovations, and factory training. Yet as successful independent contractors, they are adept at ensuring that each submittal is strong and competitive, and that each bid is locally relevant to your installation. As local businesses they not only have to earn your trust — they have to keep it.

Together these strengths set EDWARDS installations apart, and have earned this brand a special place among life safety and security solutions available today. Perhaps that's why many of the world's most cherished landmarks are protected by EDWARDS products. From the Bibliotheca Alexandrina Museum in Egypt, to the modern-day sphinx at the Luxor Hotel in Las Vegas, professionals who design, own and occupy the world's most impressive structures have chosen the EDWARDS solution.

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