



by Honeywell

E3 Series® Control Panel

Description

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

The E3 Series is equipped with an 80-character LCD-E3 alphanumeric LCD display that allows 40 characters to be user-defined for customizing installations. Up to six (6), keyboard LCD displays may also be remotely located in addition to five of the familiar LCD-7100 remote displays, allowing for instant system status information to be available in any desired area of an installation.

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

64-node networking is made possible by 625K baud/ARC-NET communications using twisted-pair copper cable, fiber-optic cable, or a combination of both.

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

The Intelligent Loop Interface - Expansion Board (ILI-S-E3/ILI95-S-E3) provides the E3 Series control panel with two (2), additional signaling line circuits. The layout is similar to the ILI-MB-E3/ILI95-MB-E3 with the exception that a number of components are omitted. It occupies one node on the Broadband network.

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Expandable Emergency Evacuation System



E3 Series

Features

- Listed under UL® Standard 864, 9th Edition
- UL Listed for smoke control (dedicated and non-dedicated) when properly configured
- Styles 4, 6, or 7* signaling line circuits
- Two to 128 SLCs each supporting 159 sensors and 159 modules
- 625K baud ARCNET communications using wire, fiber, or mixed configurations for installation flexibility
- High-speed 32 bit processor and 4100 event history log
- Advanced Boolean logic-based programming such as AND, OR, NOT, time delay and calendar functions configurable via computer programming
- Supports up to sixteen (16), ASM-16 addressable switch or ANU-48 LED driver modules per ILI-MB-E3/ILI95-MB-E3
- Two (2), Class A, Style Z or Class B, Style Y, notification appliance circuits rated at 2.0 amps. per circuit
- Integral city connection
- Flexible 115,200 baud high speed RS-232 interface
- 40 character user-defined text per device
- Supports up to five (5), LCD-7100 displays and six (6), LCD-E3 keyboard displays per ILI-MB-E3/ILI95-MB-E3

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

An ISO 9000-2000 Company



GAMEWELL-FCI

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Description (Continued)

Each ILI-MB-E3/ILI95-MB-E3 can support as many as sixteen (16), ANU-48 LED Driver modules supporting hundreds of LEDs on a 3rd party graphic annunciator for remote annunciation. The ANU-48 modules may be installed in any Listed remote annunciator. It can be remotely located via an RS-485 serial interface.

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

Installation

The E3 Series expandable emergency evacuation system offers four (4), cabinet size options. A typical cabinet includes a backbox, an inner door, and an outer door. The E3 Series cabinet assembly is a compact 19 3/8" (49 cm) wide wall-mounted enclosure.

Cabinet A includes the following four options:

- Cabinet A1 inner door mounted to the backbox. The backbox houses one NGA module.
- Cabinet A2 inner door mounted to the backbox. The backbox houses one LCD-E3 module.
- Two or three-bay inner door mounted to the backbox. The backbox typically houses one (1) LCD-E3, or one (1) NGA, and one (1) or two (2), ASM-16 modules.

Cabinet B contains a space for the ILI-MB-E3/ILI95-MB-E3, PM-9 modules and batteries set inside the backbox. Additional module options mounted on the backbox include the DACT-E3, RPT-E3 and ILI-S-E3/ILI95-S-E3. The 2-bay inner door houses one (1), LCD-E3 module and one (1), ASM-16 module.

Both Cabinets C and D include the following:

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

For instructions on installing any of the above E3 Series cabinets, refer to the E3 Series® Expandable Emergency Evacuation Installation/Operating Manual
Part Number: 9000-0574.

Features (Continued)

Velociti® Intelligent Sensor Features:

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

Specifications

Operating Voltage: 24 VDC

Operating Temperature: Not to exceed the range of 32° to 120° F (0 to 49° C)

Relative Humidity: Not to exceed 93% non-condensing at 90° F (32° C)

Ordering Information

Model	Description
ILI-MB-E3	Intelligent Loop Interface-Main Board
ILI95-MB-E3	Intelligent Loop Interface-Main Board
ILI-S-E3	Intelligent Loop Interface-Expansion Board
ILI95-S-E3	Intelligent Loop Interface-Expansion Board
LCD-E3	LCD-E3, LCD Keypad Display
RPT-E3-FO	Network Repeater (fiber and twisted-pair)
RPT-E3-UTP	Network Repeater (twisted-pair only)
DACT-E3	Digital Alarm Communicator Transmitter
ANU-48	ANU-48 LED Driver Module
ASM-16	Addressable Switch Module
NGA	LCD Network Graphic Annunciator
PM-9	Power Supply Module
LCD-7100	Remote LCD Display

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

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