E3 SERIES® FIRE ALARM CONTROL PANEL

Expandable Emergency Evacuation System

The E3 Series® fire alarm control panel is a flexible modular emergency evacuation fire system.

GENERAL

The E3 Series® Expandable Emergency Evacuation System by Gamewell-FCI is in the forefront of the latest generation of fire alarm control panels. The E3 Series System is designed for use in virtually any application because it features a modular assembly that is configured per project requirements. 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 the sensors' 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 displayor 4.3" color touchscreen LCD-SLP display. Up to six keyboard LCD displays may be remotely located. In addition, you can install five of the familiar LCD-7100/RAN-7100 remote displays. The displays show instant system status information and can be Connected in any desired area of an installation.

E3 Series with LCD-SLP Display

E3 Series with LCD-E3 Display

FEATURES AND BENEFITS

- Offers Class B, Class A or Class X* signaling line circuits
- IBC Seismic Certified
- Listed under UL® Standard 864, 10th Edition
- Listed under UL Standard UL 2572 for Mass Notification
- UL Listed for smoke control (dedicated and non-dedicated) when properly configured
- UL Listed and FM Approved for Pre-action/Deluge and Agent Releasing
- Provides two to 244 SLCs, each supporting 159 sensors, 159 modules and 159 addressable sounder bases
- 625K bits per second ARCNET communications using wire, fiber, or mixed configurations for installation flexibility
- High-speed 32 bit processor and 8100 event history log
- Advanced Boolean logic-based programming such as AND, OR, NOT, time delay and calendar functions configurable via computer programming
- Supports up to (16), ASM-16 addressable switch or ANU-48 LED driver modules per ILI-MB-E3/ILI95-MB-E3
- Two Class A or Class B, notification appliance circuits rated at 2.0 amps. per circuit

- Integral city connection
- Up to 9 levels of sensitivity adjustment
- Flexible 115,200 baud high speed RS-232 interface
- 40 character user-defined text per device
- Supports the following:
  - 15 LCD-SLP displays/annunciators
  - 6 LCD-E3 displays/annunciators
  - 5 LCD-7100/RAN-7100 remote LED annunciators per ILI-MB-E3/ILI95-MB-E3
- Polls 318 devices in less than two seconds
- Activate up to 159 outputs in less than five seconds
- LED's blink associated device address during Walk Test.
- Fully digital, high-precision protocol
- Drift compensation
- Pre-Alarm adjustable between 15 levels for both Alert and Action
- Day/night automatic sensing adjustment Sensitivity windows:
  - Ion 0.05 - 2% obscuration
  - Photo 1 - 3% obscuration
  - Laser 0.02 - 2% obscuration

- MCS Acclimate 2.5 -4%, also self-adjustable options:
  - 1-2%
  - 2-3%
  - 3-4%
- HARSH 1-3% obscuration
- 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
- Signals DIRTY and VERY DIRTY detector maintenance alerts

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Gamewell FCI FIRE CONTROL INSTRUMENTS

GENERAL

A high-speed 32-bit processor can easily implement a wide array of applications used in small office buildings or used in multi-complex, high-rise installations. The 64 node networking is made possible by 625K bits per second ARCNET communications using twisted-pair copper cable, fiber-optic cable, or a combination of both. In addition, the Addressable Node Expander (ANX) board expands the network to 122 nodes. The basic E3 Series is equipped with the following modules:

- PM-9 Power Supply
- ASM-16 (Addressable Switch Module)
- ILI-MB-E3/ILI95-MB-E3 (Intelligent Loop Interface-Main Board)
- ILI-S-E3/ILI95-S-E3 (Intelligent Loop Interface-Expansion Board)
- LCD-E3 (LCD Keypad Display)

The ASM-16 features 16 software programmable switches, each accompanied by red, green and yellow LEDs that can be programmed to indicate the operation of the switches. Additional ASM-16 modules may be added to expand the operation to a plateau previously unimagined.

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

Each ILI-MB-E3/ILI95-MB-E3 can support as many as sixteen ANU-48 LED Driver modules supporting hundreds of LEDs on a third party graphic annunciator to use for remote annunciation. The ANU-48 modules may be installed in any Listed remote annunciator. It can be remotely located via an RS-485 serial interface. An array of cabinets allows for neat, compact, attractive installations.

INSTALLATION

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

- Cabinet A includes the following four options:
  - Cabinet A1 inner door mounted to the backbox. The backbox houses one NGA module.
  - Cabinet A2 inner door mounted to the backbox. The backbox houses one LCD-E3 module.
  - Two or three-bay inner door mounted to the backbox.
  - The backbox typically houses one LCD-E3, or one NGA, and one or two ASM-16 modules.
- Cabinet B contains a space for the following modules installed inside the backbox:
  - ILI-MB-E3   - PM-9
  - ILI95-MB-E3   - PM-9G

Additional module options mounted on the backbox include the following:
  - ANX   - DACT-E3
  - ILI-S-E3   - ILI95-S-E3
  - RPT-E3-UTP

The 2-bay inner door houses one LCD-E3 module and one ASM-16 module.

- Both Cabinets C and D include the following:
  - Pre-assembled outer door that provides visibility to the fire fighter's phone handset and a microphone voice messaging system.
  - Two inner door panel selections that may contain optional modules to meet the facility operation requirements.

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

For other options including information on the system's compatibility with the retrofit equipment, refer to the panel's installation manual, P/N:LS10080-051GF-E or the Compatibility Addendum for Gamewell-FCI Manuals, P/N: 9000-0427-L8.

ORDERING INFORMATION

ILI-MB-E3: Intelligent Loop Interface-Main Board
ILI95-MB-E3: Intelligent Loop Interface-Main Board
ILI-S-E3: Intelligent Loop Interface-Expansion Board
ILI95-S-E3: Intelligent Loop Interface-Expansion Board
ANX-SR: Addressable Node Expander-Single Ring
ANX-MR-FO: Addressable Node Expander-Multi-Ring Fiber Optic
ANX-MR-UTP: Addressable Node Expander-Multi-Ring Twisted-pair
LCD-E3: LCD-E3, LCD Keypad Display
LCD-SLP: LCD Color Touchscreen with five programmable switches
RPT-E3-UTP: Network Repeater, unshielded, twisted-pair
FML-E3: Multi-Mode Fiber-Optic Module
FSL-E3: Single-Mode Fiber-Optic Module
DACT-E3: Digital Alarm Communicator Transmitter
ANU-48: ANU-48 LED Driver Module
ASM-16: Addressable Switch Module
NGA: LCD Network Graphic Annunciator
PM-9: Power Supply Module, 120 VAC
PM-9G: Power Supply Module, 220/240 VAC
LCD-7100: Remote LCD Display
RAN-7100: Remote LCD Display

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

Seismic Battery Bracket Kits

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

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

E3 SERIES® FIRE ALARM CONTROL PANEL TECHNICAL SPECIFICATIONS

System

Operating Voltage: 24 VDC

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

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

Primary Power Supply: 9 amps @ 55 AH capacity

Temperature and Humidity Ranges

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

Standards

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

UL Standards

UL 864 10th Edition:

Automatic Fire Detector Alarm

Manual Fire Alarm

Waterflow Alarm

Supervisory

Releasing Device Service

Releasing/Pre-Action Deluge

Releasing/Agent Releasing

Automatic Smoke Alarm,

Non-coded and Master Coded Operation

UUKL for Smoke Control

UL 2572, 2nd Edition for Mass Notification Systems

NFPA Standards

NFPA 13 - Standard for Installation of Sprinkler Systems

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

NFPA 72 - National Fire Alarm Code:

Central Station Fire Alarm Systems

Auxiliary Fire Alarm Systems

Proprietary Fire Alarm Systems

Local Fire Alarm Systems

Remote Station Fire Alarm Systems

NFPA 13 Sprinkler

NFPA 12A Halon 1301

NFPA 15 Water Spray

STANDARDS (Continued)

NFPA 16 Foam Water

NFPA 750 Water Mist

NFPA 2001 Clean Agent

NFPA 12 CO2 Carbon Dioxide

NFPA 17 Dry Chemical/17A Wet Chemical

Seismic Codes

International Building Code

IBC 2013

IBC 2009

IBC 2006

IBC 2003

IBC 2000 (Seismic)

California Building Code CBC 2007 (Seismic)

UL Standards

The E3 Series Control Panel is designed to comply with the following standards:

UL Standards: UL 864 10th Edition

UL 2572, 2nd Edition for Mass Notification

Agency Listings and Approvals

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

UL: S1869, 2572 for Mass Notification

FM: 3025415

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

CSFM: 7165-1703:0125

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

City of Denver Approved

The VMC Group, Reference Certificate of Compliance: VMA-45894-02C (Revision 1)

ISO 9001 Certification

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