

ILI-E3 SERIES

Intelligent Loop Interface-Main Board

The ILI-E3 Series is the main board interface used with the E3 Series® System.

GENERAL

ILI-MB-E3

The Intelligent Loop Interface-Main Board (ILI-MB-E3) is the main interface for the E3 Series® product line. With its state-of-the-art 32 bit RISC processor, this compact "panel on a board" provides a powerful addition to the Gamewell-FCI's single-pair conductor solutions. The ILI-E3 Series is used in the following systems:

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

This intuitive design provides the following features:

- two signaling line circuits
- auxiliary power output
- local energy city box output
- auxiliary relay functions
- two notification application circuits

These features, combined with the built-in network and the serial protocols, allow this module to support a host of new and existing products, resulting in a building block approach to the fire alarm control panel design.

The ILI-MB-E3 is network-ready and occupies 1 of 64 nodes operating at 625K baud.

In addition, the Addressable Node Expander (ANX) board expands the network to 122 nodes. When this sub-assembly is integrated with proven Broadband components, the result is a flexible yet powerful integrated audio solution. When the system transmits to remote locations, the optional RPT-E3-UTP provides the ILI-MB-E3 with valuable signal boosting and transient protection, as well as connectivity using both wire and fiber-optic cables.

The ILI-MB-E3 provides two signaling line circuits and terminals for the connections to up to 159 detectors, 159 modules and 159 addressable sounder bases per SLC in Velociti® mode. In CLIP™ mode, each SLC supports 99 detectors and 99 modules. The RS-485 interface can support a variety of peripheral devices.

The ILI-MB-E3 relay outputs include system alarm, supervisory, and system trouble contacts. The ILI-MB-E3 provides output for a local energy city master box or remote location which is non power-limited. All other wiring is Class 2 power-limited.

*Class X wiring requires the use of the System Sensor M500X Isolator Modules.



ILI-MB-E3



ILI-S-E3

FEATURES AND BENEFITS

ILI-MB-E3 & ILI-S-E3:

- Listed under UL® Standard 864, 10th Edition
- Listed under UL Standard UL2572, 2nd Edition for Mass Notification
- UL Listed and FM Approved for Pre-Action/Deluge and Agent Releasing
- Provides signaling line circuits with the following:
 - 2 Class A, Class X* or Class B circuits
 - 40 Character user-defined text per device

- Offers a capacity of 159 sensors, 159 addressable modules and 159 addressable sounder bases per circuit
- Includes 8100 Event History Log
- Uses a network ready integral 625K baud ARCNET
- Supports 115.2K baud RS-232

ILI-MB-E3 Only:

- Automatically adjusts to any NAC End-of-Line Resistor (EOL) value (1k-55k ohm) for legacy audible/visual appliances
- Two notification appliance circuits, Class "A" or Class B, rated at 2.0 amps. per circuit
- Offers an RS-485 supporting 16 ASM-16 switch modules and/or ANU-48 LED driver modules

ILI-S-E3

The Intelligent Loop Interface - Expansion Board (ILI-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 except a number of components are omitted. The ILI-S-E3 occupies one node on the Broadband network. The ILI-S-E3 provides two signaling line circuits and terminals for the connections to up to 159 detectors, 159 modules and 159 addressable sounder bases per SLC in Velociti mode. In CLIP mode, each SLC supports 99 detectors and 99 modules.

Installation

Typically, the ILI-MB-E3 or ILI-S-E3 can be mounted in the following E3 Series cabinets:

- Cabinet B Backbox
 - B-Slim-E3
- Cabinet C Backbox
 - E3-ILI-CPLATE
 - E3-INCC-CPLATE
 - E3-INX-CPLATE
- Cabinet D Backbox
 - E3-INCC-DPlate
 - E3-INX-DPLATE

ILI-MB-E3/ILI-S-E3

For instructions on the installation of the ILI-MB-E3 or ILI-S-E3, refer to the following documents:

- E3 Series® Expandable Emergency Evacuation Manual,
Part Number: LS10080-051GF-E
- ILI-MB-E3 Installation Instructions, Part Number: 9000-0579
- ILI-S-E3 Installation Instructions, Part Number: 9000-0569

For information on the ILI95-MB-E3 and ILI95-S-E3, refer to the ILI95-E3 Series Data Sheet, Part Number, 9021-60336.

For information on the ANX, refer to the ANX Data Sheet, Part Number, 9021-60497.

ORDERING INFORMATION

ILI-MB-E3: Intelligent Loop Interface-Main Board

ILI-S-E3: Intelligent Loop Interface-Expansion Board

ILI-E3 SERIES TECHNICAL SPECIFICATIONS

SYSTEM

ILI-MB-E3 only:

ILI-MB-E3 Operating Current: 0.081 amp

ILI-MB-E3 Alarm Current: 0.150 amp max.

ILI-S-E3 Operating Current: 0.118 amp

ILI-S-E3 Alarm Current: 0.119 amp

ILI-MB-E3 and ILI-S-E3:

Operating Voltage: 24 VDC FWR
(from the PM-9/PM-9G Power Supply)

Operating Temperature: 32° to 120° F
(0° to 49° C)

Relative Humidity: 0 to 93%,
non-condensing at 90° F (32° C)

Supervised

Class 2 Power-Limited

SLC 40 Ohms maximum line impedance 0.5 uF
maximum line capacitance

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 ILI-E3 Series are designed to comply with the following standards:

UL Standards: UL 864, 10th Edition

UL 2572, 2nd for Mass Notification

AGENCY LISTINGS AND APPROVALS

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

UL Listed: S1869

UL 864, 10th Edition

UL 2572, 2nd Edition for Mass Notification

FM Approved: 3025415

MEA FDNY: COA# 6077

CSFM: 7165-1703-0125

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

City of Denver:

ISO 9001 Certification:

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

Country of origin: U.S.A.

Honeywell Gamewell-FCI

12 Clintonville Road

Northford, CT 06472-1610

203.484.7161

www.gamewell-fci.com

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