ILI95-E3 SERIES

Intelligent Protocol-Apollo Series

The ILI95-E3 Series is the main circuit interface, using the Apollo protocol, used with the E3 Series® System.



ILI95-MB-E3



ILI95-S-E3

GENERAL

The Gamewell-FCI, Intelligent Loop Interface95-Main Board (ILI95-MB-E3) is the main circuit interface for the following E3 Series® Systems using the Apollo Protocol SLC devices:

- E3 Series® Expandable Emergency Evacuation System
- E3 Series® Combined Fire and Mass Notification System

With its state-of-the-art 32 bit RISC processor, this compact "panel on a board" provides a powerful addition to Gamewell-FCI's single pair conductor solutions. This intuitive design provides the following features:

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

These features, combined with a built-in network and 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 ILI95-MB-E3 provides two signaling line circuits and terminals for the connections to up to 126 Apollo detectors and modules per SLC. The RS-485 interface can support up to a total of six LCD-E3 and sixteen ASM-16 and/or sixteen ANU-48 remote LED driver modules.

The ILI95-MB-E3 is network ready and occupies 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 sub-assembly transmits to remote locations, the optional RPT-E3 provides the ILI95-MB-E3 with valuable signal boosting and transient protection, as well as provides connectivity using both wire and fiber-optic cables.

The ILI95-MB-E3 relay outputs include system alarm, supervisory, and system trouble contacts. The ILI95-MB-E3 provides output for a local energy city master box or for a remote location which is non power-limited. All other wiring is Class 2 power-limited.

FEATURES AND BENEFITS

ILI95-MB-E3/ILI95-S-E3:

- Listed under UL® Standard 864, 10th Edition
- Listed under UL Standard UL2572, 2nd Edition for Mass Notification
- Provides network ready integral 625K baud ARCNET
- 115.2K baud RS-232

Signaling line circuits with the following:

- Two Class A, Class X* or Class B circuits
- 40 Character user-defined text per device
- Capacity of 126 analog/addressable Apollo devices per loop
- 4100 Event History Log

*Class X wiring requires the use of XP95-LI Isolator Modules

ILI95-MB-E3 Only:

- Two notification appliance circuits, Class "A" or Class B rated at 2.0 amps. per circuit
- RS-485 supporting 16 ASM-16 switch modules and/or ANU-48 LED driver modules
- Alarm, trouble, and supervisory dry contacts Form "C", rated at 2 amp. @ 30 VDC (resistive)
- Supports six local/remote LCD-E3 annunciators and five LCD-7100/ RAN-7100 remote LED annunciators

Honeywell

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ILI95-S-E3

The Intelligent Loop Interface95 - Expansion Board (ILI95-S-E3) provides the E3 Series fire alarm control panel with two additional signaling line circuits. The layout is similar to the ILI95-MB-E3 except a number of the following inputs/outputs are omitted:

- Notification Appliance Circuits
- Auxiliary Power
- RS-485 Communication Bus
- Form C Relays
- ARCNET Repeater Port

The ILI95-S-E3 occupies one node on the Broadband network. The ILI95-S-E3 provides two signaling line circuits and terminals for the connections to up to 126 sensors / modules.

Installation

Typically, the ILI95-MB-E3 or ILI95-S-E3 can be mounted in the following E3 Series cabinets:

- Cabinet B and D, backbox
- Cabinet B, B-Slim-E3 sub-assembly plate
- Cabinet C, E3-ILI-C sub-assembly plate
- Cabinet C, E3-INCC-C sub-assembly plate
- Cabinet C, E3-INX-C sub-assembly plate
- Cabinet D, E3-INCC-D sub-assembly plate
- Cabinet D, E3-INX-D sub-assembly plate

For instructions on the installation of the ILI95-MB-E3 or ILI95-S-E3, refer to the following documents:

- E3 Series® Expandable Emergency Evacuation Manual, Part Number: LS10080-051GF-E
- ILI95-MB-E3 Installation Instructions, Part Number: 9001-0017
- ILI95-S-E3 Installation Instructions, Part Number: 9001-0018

For information on the ILI-MB-E3 and ILI-S-E3, refer to the ILI-E3 Series Data Sheet, Part Number, 9020-0605.

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

ORDERING INFORMATION

ILI95-MB-E3: Intelligent Loop Interface95-Main Board

ILI95-S-E3: Intelligent Loop Interface95-Expansion Board

ILI95-E3 SERIES TECHNICAL SPECIFICATIONS

SYSTEM

ILI95-MB-E3

Operating Current: 53 mA

Alarm Current: 92 mA

ILI95-S-E3

Operating Current: 0.109 amp

Alarm Current: 0.11 amp

ILI95-MB-E3 and ILI95-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

Line Impedance: SLC 40 Ohms maximum line impedance

Line Capacitance: 0.5 f 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 ILI95-E3 Series are 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 the factory for the latest listing status.

UL Listed: S1869
UL 864, 10th Edition
UL 2572, 2nd Edition

FM Approved: 3025415

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

CSFM: 7165-1703-0125

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.

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