AL-4017 Control Panel

Multiple security technologies on a high performance platform

Overview

GE Alliance is a single platform for consolidated security management. With multiple security technologies on one panel, modular hardware components, and one software package, Alliance provides power and versatility for a new generation of security management. High performance intrusion detection, access control, and communications are included in one package.

Intrusion Alarm System

The Alliance System is a complete intrusion alarm system with 68 different input types. It can be programmed to operate up to 16 independent alarm systems (areas). Each area may have separate remote arming stations (RAS). Alarm inputs may be assigned to specific areas such as offices and stores, or may be assigned to common areas such as lobbies and cafeterias.

Integrated Access Control

The Alliance System control panel can control 16 doors and allow users to disarm alarm areas as access is granted. The panel also features the exclusive "3 Times (3X) Badging" to arm. Up to 48 additional intelligent doors may be controlled through optional intelligent 4-door controllers connected on the RS485 data bus.
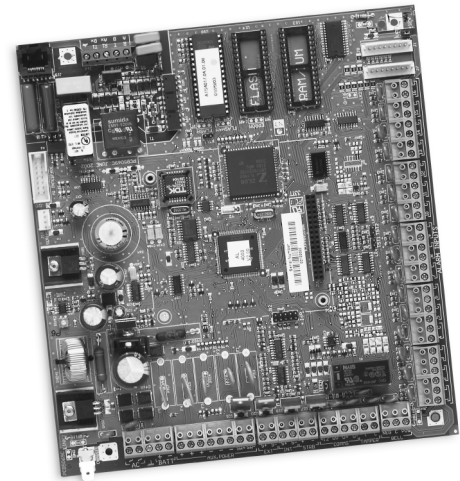
Modular RS485 Data Bus

The Alliance System communicates with up to 16 remote arming stations (RAS) and 15 data gathering panels (DGP) using a RS485 data bus. All remote devices on the bus are continuously polled to ensure correct operation. They can be connected in star or daisy chain configurations using the AL-1330 power distribution board, or in loop configuration using the AL-1740 or AL-1742 interfaces.

Alarm Reporting

The Alliance control panel is capable of reporting alarms and specified events using a variety of formats (SIA, XSIA, CID, or voice messaging) through the built-in PSTN dialer or through optional ISDN B&D channel adapters. Up to four central stations with two phone numbers each give eight possible reporting connections.

Flexible Programmable Logic Controller (PLC)

The Alliance System offers total flexibility in programming up to 255 outputs through 24 macro logic equations.

AL-4017

Standard Features

- **Integrated alarm and access control system for up to 256 zone inputs and 64 doors**
- **Modular RS485 data bus with continuous polling of up to 16 RAS[*] and 15 DGP[**]**
- **PLC[***] with 24 macro logic equations**
- **255 freely programmable outputs**
- **Built-in dialer**
- **2 or 4-state monitored analog zone inputs**
- **Programming, monitoring and service, on-site or remote, by PC**

[*] RAS: Remote Arming Station

[**] DGP: Data Gathering Panel

[***] PLC: Programmable Logic Controller

Specifications

Physical Capacity

- Areas: 16
- Inputs on board: 16
- Inputs in database: 256
- Outputs on board include: exterior siren, interior siren, strobe, one programmable relay
- Usable open collectors (OC) on board: 4
- Switchable 12 VDC outputs on board: 2
- Maximum number of relays on unit: 16 on panel, expandable to 256
- Remote arming stations (RAS): 16
- Data gathering panels (DGP): 15
- Standard doors on control panel: 16
- Intelligent doors on intelligent 4-door controllers: 48
- Removable connectors
- Built-in RS232
- Alarm groups: up to 138
- Door groups: up to 128
- Users (cardholders): 50 standard, expandable to 65,535
- User-defined text names: up to 200
- Pin codes: up to 1,000 (4 to 10 digits)
- Alarm events: up to 1,000 in the log
- Access events: up to 1,000 in the log

Optional Expansions

- 2 plug-in 8-input expanders on board (AL-1206)
- 1 MB RAM memory expansion (AL-1830)
- 4 MB RAM memory expansion (AL-1831)
- 8 MB RAM memory expansion (AL-1832)
- Computer interface compatible (AL-1801)

Power, Environmental and Regulatory

- Power supply: 12 VDC/300 mA
- Transformer: 24 V and 100 VA AC
- Operating temperature: 32° F to 122° F
- UL/FCC: UL294, UL365, UL609, UL1610, UL1635

Analog Inputs

All the inputs of the Alliance panel are analog inputs. This enables the measurement of input loops resistance (in Ohms) for diagnostic purposes. The inputs can be 2- or 4-state monitored with EOL resistances of 4.7 K, 10 K, or 2.2 K Ohms. The control panel is 8100 Diagnostic™ enhanced and can measure the voltage and current supplied to all devices on the RS485 data bus.

Ordering Information

Part Number	Main Product Offering
AL-4017	Control panel with: - 256 inputs in database - 255 programmable outputs - 16 areas - 16 inputs on board
AL-1682	Large metal housing
AL-1680	Large metal housing, UL approved
AL-1684	Medium metal housing
AL-1690	Transformer, 24V, 100VA, Class I (fits AL-1682 and AL-1680 housings)
AL-1691	Transformer, 24V, 50VA, Class II (fits AL-1684 housing)
AL-1692	Plug-in 16.5V, 50VA, Class II Plug-in

GE Security

www.GE-Security.com