

# GE Security

# Alliance Intrusion Detection Control Panels

## Overview

GE's premium performance Alliance AL-4017 and AL-4617 control panels consolidate access control, intrusion alarm, video surveillance, and communications in one platform. Combined with modular hardware, distributed intelligence, and powerful software, an Alliance security platform can be scaled for any application.

With 16 LCDs or keypads, 16 alarm inputs, and 16 partitions onboard, an Alliance control panel provides the cost-efficiency of two systems in one. Cardholders enjoy the convenience of one-card operations, using the same card action to open doors while disarming areas (or locking doors while rearming areas). This core panel capability can be enhanced with Data Gathering Panels (DGPs) for wireless intrusion, addressable intrusion, advanced access control, elevator control, and more. Up to 15 DGPs may be added to each system via a modular RS-485 data bus. Multiple Alliance control panels may be linked together into a single system, further expanding Alliance's capabilities.

All Alliance panels are capable of reporting alarms and other programmed events in a variety of formats: SIA, XSIA, CID. Each panel can be connected to a LAN/WAN with the optional AL-1806 TCP/IP interface with encrypted connections for alarm reporting. Local annunciation and detailed reporting are also available, by user-selected schedules and areas, so that security professionals can install custom alarm management systems for every client.

Each Alliance control panel is modular and can be expanded to 256 zone inputs and 255 outputs so that the size can be scaled for custom applications. Up to 24 macro logic equations can be programmed to trigger various output activities, from local annunciation or event-log reporting to dialing any of four central stations.

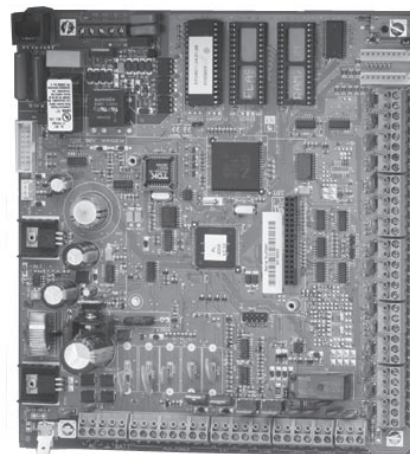
The Alliance panels' 2-state and 4-state analog inputs allow monitoring of end-of-line resistance values at 1.5K, 2K, 2.2K, 3.3K, 3.7K, 4.7K, 5.6K, 6.8K, or 10K ohms. The panel, combined with Alliance software diagnostic routines, can measure voltage and current supplied to all devices on the RS-485 data bus. With onboard communications, this allows maintenance, diagnostics, and troubleshooting from remote locations, reducing the cost and inconvenience of onsite maintenance or service visits.

## Features

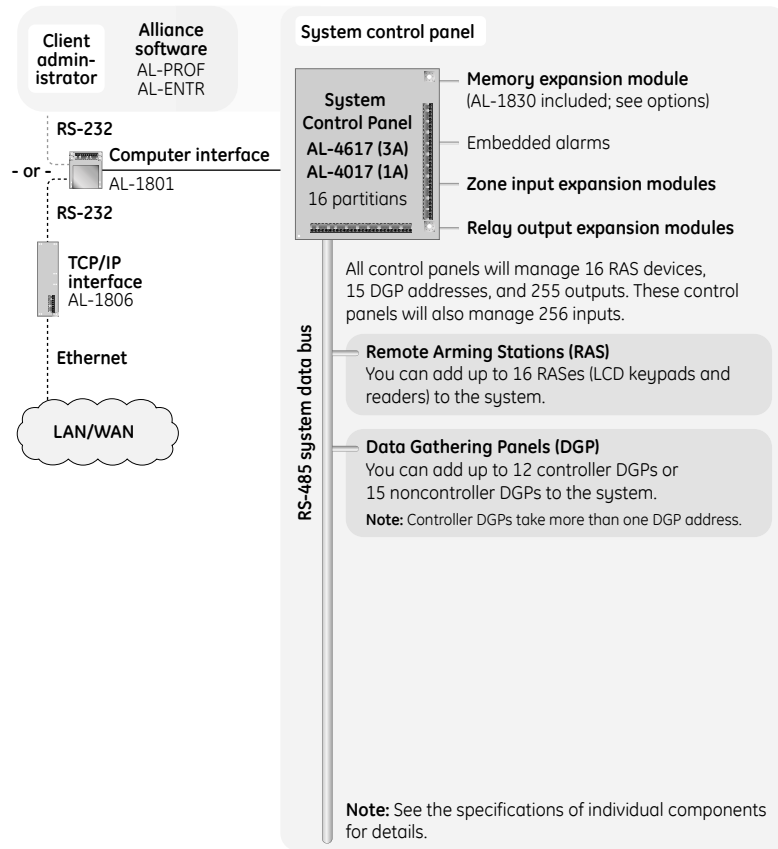
- Integrated intrusion alarm and access control system
- Up to 16 remote arming stations (keypad or reader) onboard
- Built-in dialer for monitoring or for remote system management
- Up to 256 zone inputs and 64 doors with use of expansion modules
- Up to 255 freely programmable outputs
- 15 data gathering panels on data bus for expanding system capacity, adding capability, and increasing flexibility of system architecture
- Optional interfaces for TCP/IP or PC connections
- Logs 2,000 alarm and access events onboard
- Expandable memory options

# AL-4017/AL-4617

## Alliance control panels



# System Block Diagram



## Specifications

### System features

System partitions/areas	16
Inputs on board (zones)	16
Max. system inputs (zones)	256
Outputs on board (relays)	Exterior siren, interior siren, strobe, one programmable relay
Max. system outputs (relays)	255
Door control on master control panel	Yes
Auxiliary power	12 VDC / 1.0 A
Supports access control	Yes (requires AL-1256)
Supports elevator control	Yes (requires AL-1265)
Max. access control readers (when using AL-1256)	48
Global anti-passback	Yes (requires AL-1256)
Memory expansion	Yes; AL-1830 (1MB) included with panel; AL-1831 (4MB) and AL-1832 (8MB) supported
Software management	Via RS-232
Remote site management via software	Dialup/LAN
Installer software management (4-hr timed programming connection)	Yes
TCP/IP support	Yes (requires AL-1801 or AL-1806)
Built-in dialer	Yes
Communications bus	RS-485

### System capacity

Users	11,466 (expandable to 65,532)
Alarm groups	138
Door groups	128
Floor groups	64
Alarm log	1,000
Access log	1,000
Installer log	10

### Physical and environmental

Operating temperature	32 to 122°F (0 to 50°C)
Dimensions	8.0 x 8.63 in. (202 x 220 mm)

### Regulatory

Listings	UL 294, UL 609, UL 365, UL 1610, UL 1635 FCC Part 68 FCC Part 15B Class B
----------	---

## Ordering Information

AL-4617	System control panel, 3A, no enclosure
AL-4017	System control panel, 1A, no enclosure
AL-1672	Transformer 18V, 100vA Class 1 direct wire
AL-1690	Transformer 24V, 100vA Class 1 direct wire
AL-1680	Metal enclosure, large, UL Safe and Vault (21.4 in. H x 14.9 in. W x 4.8 in. D; 17.64 lb.)
AL-1682	Metal enclosure, large, UL (21.1 in. H x 14.6 in. W x 5.0 in. D; 13.84 lb.)
AL-1683	Metal mounting plate, large (20.5 in. H x 14.0 in. W)
AL-1801	Serial PC communications port
AL-1806	TCP/IP universal network interface
AL-1206	8-zone plug-in expansion module
AL-1810	4-relay expansion module
AL-1813	8-relay expansion module
AL-1831	4MB memory expansion, user capacity 17,872; alarm group 128
AL-1832	8MB memory expansion; user capacity 65,535
AL-SYS-A	AL-4017 Kit; Includes: (1) AL-4017 System Control Panel; (1) AL-1682 Metal Enclosure; (1) AL-1690 Transformer; (1) AL-1111 LCD Keypad, 4-Line
AL-SYS-D	AL-4617 Kit; Includes: (1) AL-4617 System Control Panel; (1) AL-1682 Metal Enclosure; (1) AL-1672 Transformer; (1) AL-1111 LCD Keypad, 4-Line

# GE Security

Americas  
T 503 885 5700  
T 888-GE-SECURITY  
(437 3287)  
F 800 483 2495

Canada  
T 519 376 2430  
F 519 376 7258

Asia  
T 852 2907 8108  
F 852 2142 5063

Australia  
T 61 3 9259 4700  
F 61 3 9259 4799

Europe  
T 32 2 725 11 20  
F 32 2 721 86 13

Latin America  
T 305 593 4301  
F 305 267 4300

[info@gesecurity.com](mailto:info@gesecurity.com)  
[www.gesecurity.com](http://www.gesecurity.com)

© 2007 General Electric Company  
All Rights Reserved



imagination at work