

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

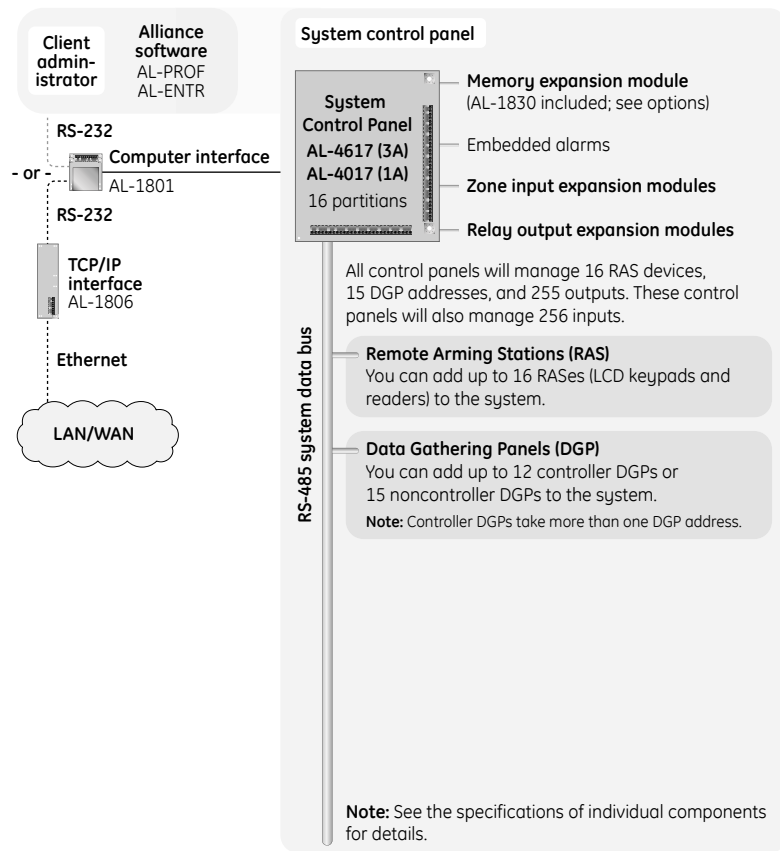
- Integrated intrusion alarm and access control system
- Up to 16 remote arming stations (keypad or reader) onboard
- Built-in dialer for monitoring or for remote system management
- Up to 256 zone inputs and 64 doors with use of expansion modules
- Up to 255 freely programmable outputs
- 15 data gathering 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

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|----------|---|
| 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 |

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