Overview

The intelligent 4-door controller and data gathering panel (DGP) extends the Alliance system's access control and security functions. Allowing up to four readers per door, it adds intelligence to those doors while increasing the total number of doors on the system.

The 4-door controller operates in real time mode with distributed intelligence. If there is a communication failure between the DGP and the control panel, the intelligent 4-door controller will function as normal with no degradation in performance or response times of card reading, alarm activation, or logic events of devices or programs associated with each controller.

A total of 12 intelligent 4-door controllers can be connected to an Alliance 4x17 panel. Global antipassback (hard or soft) is supported across these additional 48 doors.

The intelligent 4-door controller monitors the status of the doors (open or closed) and the status of the door locks (locked or unlocked), as well as handles forced door and door open too long (DOTL) events, with variable shunting times for physically challenged users.

The intelligent 4-door controller enables PIN-plus card badging for high security applications, allows doors to be interlocked, and accepts privileged cards to override antipassback and disabled readers. It also supports dual custody, where two cards are required to gain access. The DGP can be programmed to count the number of users entering and leaving specific areas within the building.

The intelligent 4-door controller has 16 two- or four-state monitored inputs on board. By default they are assigned to DOTL, request to exit (RTE), door contacts, and a spare input for each door, but they can also be reprogrammed as regular alarm inputs. It also supports up to 48 customized macros for advanced access and intrusion design. Each macro can be programmed to include up to four input events and one output event. System-wide relay programming is also facilitated through macros.

Each intelligent 4-door controller may control up to four readers per door on its local data bus. Wiegand and magstripe card readers may be connected to the local data bus through the AL-1170 Wiegand interface, or directly to the 4-door controller through one of its four on-board interfaces (one interface for each door.)

The 4-door controller with standard memory configuration accepts multiple reader formats, including HID and smart card readers, Wiegand and Indala 26 and 27 bits, and the Alliance system magstripe.

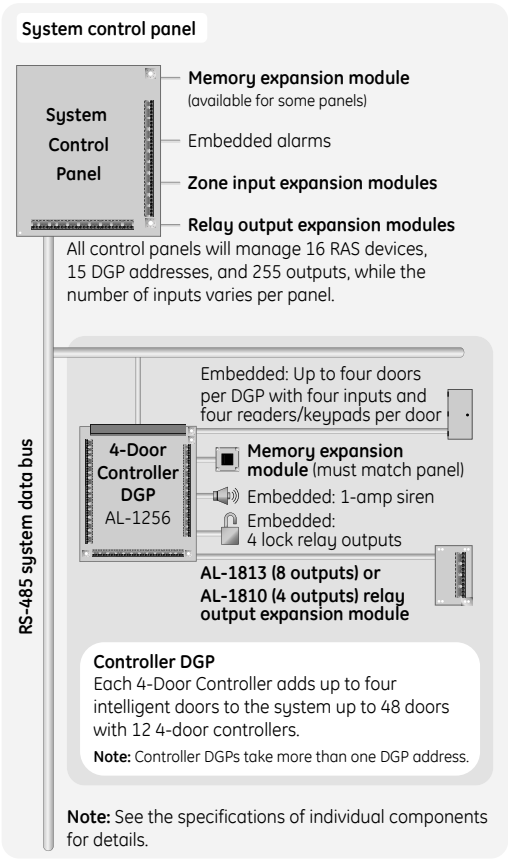
Features

- Real-time alarm and access control on four doors
- Full mirror database for offline condition
- Up to 12 intelligent controllers and 48 access control doors per Alliance System control panel
- Global antipassback
- Request-to-exit support for each door
- Area control
- User counter, interlocking, card + PIN, 3X badging
- 16 alarm inputs on board
- 4 reader inputs with built-in interface
- Local RS-485 bus for up to four readers per door with in/out configurations
- Supports wide range of third-party readers, including Wiegand
- 4 relays on board for lock control
- Up to 48 freely programmable outputs using macro logic equations

AL-1256

Alliance intelligent 4-door controller

System Block Diagram



Specifications

System capacity	Maximum 240 devices on Alliance system (32 max. per DGP)
Physical	Distance from panel: Up to 5,000 ft. (1,500 m) Length of local bus: 5,000 ft.
Operating temperature	32 to 122°F (0 to 50°C)
Electrical	
Auxiliary power supply	12 VDC/3 A
Dynamic battery testing	Yes
Batteries	Up to 2 with 17.2 Ah each
Transformer	120 VAC at 60 Hz/24 to 100 VAC
Capacity and inputs/outputs	
Cardholders	11,466; expandable to 65,535 with intelligent user module (IUM)
PIN codes	1,000 expandable to 65,535
Door groups	10; expandable to 128 with IUM
Time zones/holidays	24/64
Zones	16 (free programmable inputs)
Relays on board	4, expandable to 16 with AL-1813 relay expansion card
Programmable events	Up to 48 output events programmable with macro logic equations
Data bus monitoring	Continuous data bus monitoring for offl ine conditions of all devices on bus
Individual addressing with DIP switches	Yes
1MB RAM expansion (standard)	Yes
4MB and 8MB RAM expansion	optional – must match control panel
Card formats	HID and Smart Card Reader Wiegand and Indala 26 and 27 bits Alliance system magstripe Any Wiegand format up to 48 bits with IUM
Regulatory	FCC UL: UL294, UL365, UL609, UL1610, UL1635

Ordering information

AL-1256	Intelligent 4-door controller and data gathering panel, no enclosure, 3 A, 1 MB
AL-1682	Large metal housing, 21.1 in. H x 14.6 in. W x 5.0 in. D (536 x 371 x 127 mm), 13.84 lb. (6.28 kg)
AL-1680	Large metal housing, UL listed, 21.4 in. H x 14.9 in. W x 4.8 in. D (544 x 379 x 122 mm), 17.64 lb. (8.0 kg)
AL-1672	Transformer, 18 V, 100 VA, Class I
AL-1831	4MB RAM memory expansion (optional; must match control panel)
AL-1832	8MB RAM memory expansion (optional; must match control panel)
AL-SYS-G	Intelligent Doorkit; Includes: (1) AL-1256 4-Door Controller DGP; (1) AL-1682 Metal Enclosure; (1) AL-1672 Transformer

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