

900 Door Control System



900 8-Door Control Rack

- **Modular Design Adapts to the Job**
- **Rugged, Proven Performance**



- The AES 900 System is used in embassies, public facilities, prisons and anywhere access is controlled by manned guard stations. It is easily integrated with CCTV, Intrusion and Fire Alarm Systems.
- The "building block" design makes the AES 900 system very simple to specify and install, and equally easy to upgrade. The modules plug into uniform rack cabinets with a common buss structure to build the system that meets your exact needs.
- The 900 "Rack" is the core for this modular design for door controls. It houses the control modules and provides a common buss for power and signal. The modules slide easily into the 900's slots, and connect to the buss via simple block connectors.
- The 900 Rack fits a standard a standard 19" equipment rack.

905 3-Door Control Rack

- **Saves Space**
- **Uses 900 Series Modules**
- **Ideal for Smaller, Remote or Secondary Control Points**



The AES 905 "Rack" is the 3-door alternative to the the larger 8-door 900 standard rack. It houses the control modules and provides a common buss for power and signal. The modules slide easily into the 900's slots, and connect to the buss via simple block connectors.

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900 Specifications

- **Size:** 19"W x 5.25"H x 10"D (48.25 x 13.3 x 25.5 cm)
- **Power:** 24VDC; use AES 726, 727 or 780 Power Supply
- **Connectors:** Barrier Block
- **Capacity:**
 - 1 - Emergency Lock Down Module
 - 8 - Door Control / Monitor Modules
 - 2 Locks per Door

905 Specifications

- **Size:** 11"W x 5.75"H x 11"D (48.25 x 13.3 x 25.5 cm)
- **Power, Connectors** same as 900 Rack
- **Capacity:**
 - 1 - Emergency Lock Down Module
 - 3 - Door Control / Monitor Modules

900 Door Control System Compatible Modules

910 Emergency Lock Down Module

- The 910 Emergency Module provides a complete system lockup at the flip of a switch. It is used in the AES 900 Door Control System, using the 900 or 905 Door Control Rack.
- The 910 Module can be used in conjunction with any number of doors connected to 940 or 945 control modules. In an emergency, the operator can lock all doors - even overriding an UNLOCK condition caused by input from a fire control. The operator can then open the doors one at a time as needed, or all at once in the case of a true emergency.
- Rack Location: Must be located in first (left-most) position.

Lock Up Module Operation

- Switch in Down Position - Normal Operation; in the event of a fire, the external fire control system will unlock all doors
- Switch in Up Position - Emergency Lock Down; all doors are locked regardless of any other inputs; overrides fire control

To Open Doors During Emergency Lockup (910 switch in UP position):

- To Open Individual Door(s): On each 940 and/or 945 module, lift guard and move toggle switch into UP position
- To Cancel Emergency Lockup: Restore switch on 910 to DOWN (normal) position
- Fire Doors with 946 Status Display Panel (at door): use key switch at door to release lock

Ordering

- AES 910 Emergency Lock and Door Module

940 Door Control Module

- The 940 Door Control Module is used in the AES 900 or AES 905 Door Control Rack System. Each 940 module controls one (1) door. Each door includes two (2) locks: an emergency lock; and an access lock. Both locks must be released for the door to open. Indicators on the module display the status of the emergency lock, and the door position (open/closed) as sensed by a magnetic contact at the door.
- Rack Location: Any Location EXCEPT the first (far left) position

Guarded Toggle Switch Operation:

- Down Position - Releases emergency lock
- Middle Position - Locks emergency lock
- Up Position - Overrides Emergency Lock Down (see 910 module); releases door during and emergency lock up period

Push Button (Lighted) Switch Operation:

- Push - Releases access strike lock

Status Indicators:

- Red Lamp - Indicates emergency lock is engaged
- Yellow Lamp - Indicates that door is open

To Open Doors During Emergency Lock Up:

- Lift switch guard and push toggle switch into UP position

944 Fire Door Control Kit

AES 944 "Kit" includes the AES 945 Fire Door Control (R) and the AES 946 Door Display (L)

- The 944 is a subsystem of the 900 Door Control System. It includes two parts, the 945 Fire Exit Door Control and the 946 Fire Door Display. The 944 system prevents unauthorized use of fire exits by delaying the opening of the fire door, allowing time for a guard to determine if an emergency exists.

AES 945 Fire Door Control Module

- **Operation:** When the "crash bar" at the fire exit is pushed, a delay timer begins to count down. During the delay period, the guard can check the door in question via CCTV or intercom to confirm that an emergency exists. Using the 945 Door Control at the control post, the guard can either release the door or keep it locked. The delay period is adjustable from 5 to 20 seconds to suit applications and local regulations. If the operator does not act, the door is unlocked automatically at the end of the delay period.

Lighted Push Switch:

- Push switch to extend (reset) the timer function;
- Green lamp indicates door is secured;
- Amber lamp flashes to indicate timer is running; and glows steadily when the timer runs out and the lock is released; RED lamp indicates door is open
- Guarded Toggle Switch:
 - Guarded UP position provides unconditional release, overriding the fire exit timer and the 910 Emergency lock up module.
 - Center position is normal, secured status;
 - Down position releases the lock

Standard Size Module, fits 900 or 905 rack assemblies.

946 Fire Exit Door Display

The 946 Display is mounted adjacent to the fire exit door, and works in combination with a 945 Fire Door Control at the control post. An audible and visual display annunciates lock status at the fire exit. When someone attempts to leave through the fire exit, the display beeps and flashes, instructing the person to wait. The display indicates when the door is unlocked, instructing the person to open the door. A keyswitch on the 946 releases the door, overriding all locks and controls.

Indicators:

- Green lamp indicates door is locked.
- Amber lamp:
 - Flashes to acknowledge that "crash bar" has been pushed, and indicates person must Wait for lock to release;
 - Steady indicates lock is released, and door may be opened.
- Red lamp indicates door is open.
- Buzzer sounds when "crash bar" is pushed, and silences when door is opened.

Controls:

- Keyswitch for unconditional release of lock.

Ordering

- AES 944 Fire Door Package, Includes 945 and 946
- AES 945 Fire Door Control Module only
- AES 946 Fire Door Display only

Door Control Accessories

Power Supplies

- 726-24DC/3A Power Supply for Door Controls
- 727-24DC/10A Power Supply for Door Controls
- 780 24VDC 15A Power Supply for Door Controls

Relay Card

- 727-RB Relay Card for Door Controls



For more information

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