



Mercury Security's AP controller platforms are a value-driven option that provides a streamlined feature set with the same reliability found in our EP platforms and products. The AP units offer a flexible approach to system configuration when the native network features of Mercury's intelligent EP controllers and related devices are not required.

The AP 3502 controller platform brings flexible features, high performance and a competitive advantage to OEMs. The AP3502 provides all the intelligent control needed for a simple 5,000 user, two-door system in a single panel configuration with easy expansion to eight doors or more by simply adding AP3402 two-door modules.

Once configured the Mercury AP3502 functions independently of the host and is capable of controlling access, managing alarms and interfacing an array of reader devices. Reader ports support separate In/Out readers of all technologies, including Wiegand, clock and data, RS-485, magnetic stripe, keypads and LCD.

A compact 5x7-inch form factor allows for easy installation and requires minimal wall space. With all wire termination points on one edge, board installation options are plentiful. Traditional tile mounting, edge mounting, or rack mounting are all possible. Hardware status indicators are plentiful and allow for confirmation of proper operation without any specialized test equipment. Individual LEDs indicate the state of each input, each relay, and each reader.

Application Notes

The AP3502's application program interface puts the developer in precise and complete control of all aspects of the system. After configuration is complete, the AP3502 can perform all functionality independent of the host computer. Alarm management and schedule operations are easily combined with powerful access controls.

Benefits

- Decentralizes system intelligence
- Two-door interface with auxiliary I/O
- Intelligent oversight, auxiliary monitoring
- Allows for easy system growth and expansion

Features

- Multi-card format support
- Multi-reader technology support
- UL 294 Recognized
- Alarm keypad support
- Function key support
- Universal I/O device characterization

Proven Platforms for the Future
Reliable. Proven. Innovative Access Control.

Technical Specifications
Primary Power:

10-28 Vdc +/- 1.5%, 500mA

Serial Ports:

 Port 1: RS-232, RS-485,
Ethernet (with daughter
card)
Port 2: RS-485, 2-wire

Inputs:

 4 general purpose: programmable circuit
type

 Two dedicated: tamper and power
monitor

Outputs: 2 relays: Form C, 5A 28Vdc

Reader Ports: 2 Reader ports

Power: Unregulated pass through
(180mA fused)

Signaling: Card/Data, Wiegand or
RS-485 Keypad Multiplexed with card data

LED: Two-wire or one-wire bicolor support

Buzzer: Only with 'one-wire' LED

Dimensions:

 5.0" x 7.0" x 1.0"
(127mm x 178mm x 25mm)

Temperature:

0-70°C operational, -55-85°C storage

Humidity: 0-95% RHNC

Standards: CE Compliant, ROHS, FCC Part 1.5
Class A, UL 294 recognized

Technical Features
Supported I/O panels: AP-3108 8 input module

 • AP-3208 8 output module • AP-3402
2 door module

Access Control

 5,000 Cardholder capacity, 10,000 Transaction
buffer • 32 Access Levels per cardholder (32K
per AP-3502) • 19 digit (64-bit) UserId and 15
digit PIN numbers maximum • Activation/Deactivation
Dates • If/Then Macro capability.

Card Formats: 8 active card formats
per ACR

Access Control Reader Properties
Operating modes:

 Card only, PIN only, Card or PIN,
Card and PIN

Anti-passback: nested areas, optional timed
forgiveness

Monitor Point Properties

 Normally open/Normally closed,
unsupervised, supervised.

Door Control Point Properties

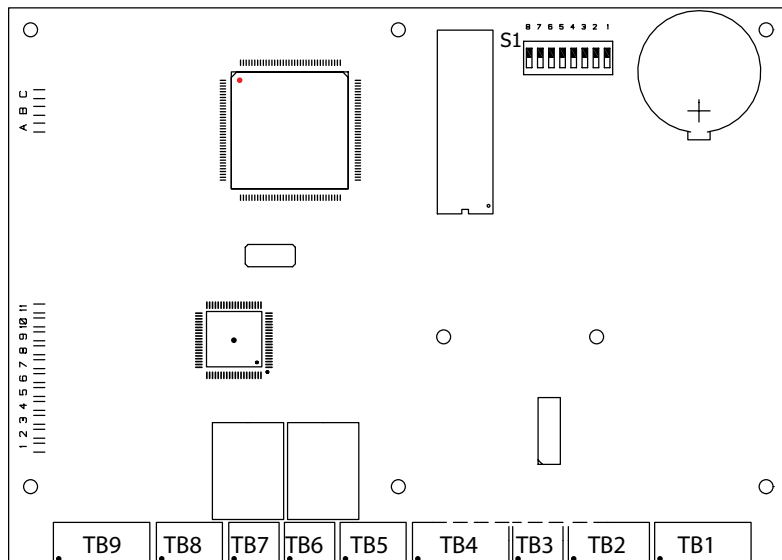
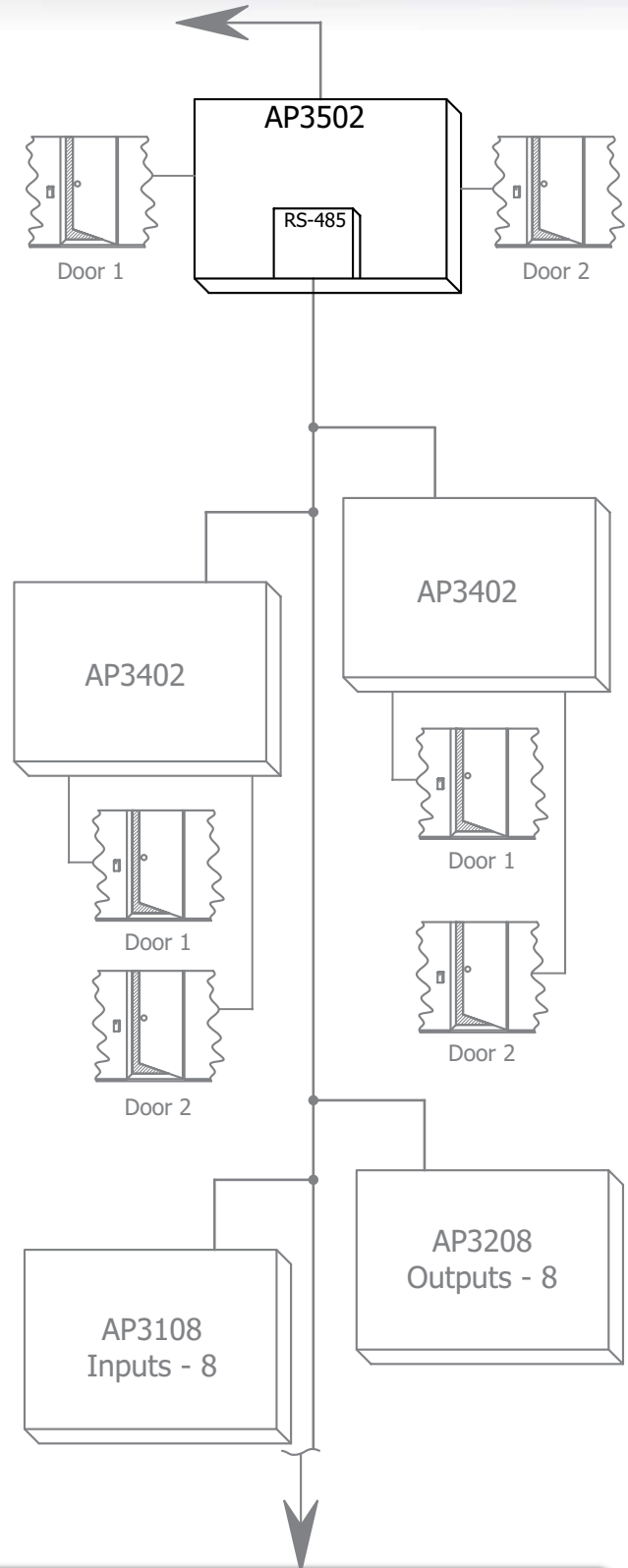
 Energize to activate (fail-secure), de-energize to
activate (fail-safe)

Pulse control (.1 second increments
up to 24 hours)

Time Zones

 12 intervals per time zone. Time Zone override via
direct commands. Multiple holiday types.

To Host: RS-232, RS-485 or Ethernet Optional


For More Information:

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