

## AX.S SERIES Embedded Access Control

# Door Unit

## AD500

### OVERVIEW

Supported by the Access Manager 300 (AM300), the AD500 provides the interface between all access point readers and hardware, including door frame contacts, request to exit button, and door strikes. Each Door Unit supports two reader connections, including multiple door modes such as a single door secured exit or two individual doors using a "Request for Exit" configuration.

Via the AM300, from one to four Door Units can be utilized in one system configuration and accommodate up to eight readers. The AD500 is compatible with standard access control readers using an RS485 or Wiegand data connection. When implemented with optional OC8/IC8 extension module(s) with Door Unit(s), a single reader allows users to selectively open specific access points (up to 24), eliminating Fingerprint Keys or Wiegand readers at every access point. This alternative configuration is ideal in retail, healthcare, and banking facilities where users need to open a specific display case, cabinet, drawer, safe, or server cabinet.

The AD500 is suited for environments that require enhanced security at access points. Installed at a tamper-proof location and physically separated from the main Access Manager controller, the AD500 accommodates a wide range of door combinations and components, including motor locks and automatic doors.



### FEATURES

- Available in two interface versions: RS485 or Wiegand
- An extension interface connects up to three IC8/OC8 modules for additional input/output
- One Door Unit manages access up to two doors
- Link between Access Manager, door readers, and peripheral contacts
- Door Unit connects to Access Managers with distances up to 4,000 feet
- Firmware update via RS485 host interface

### COMPATIBILITY

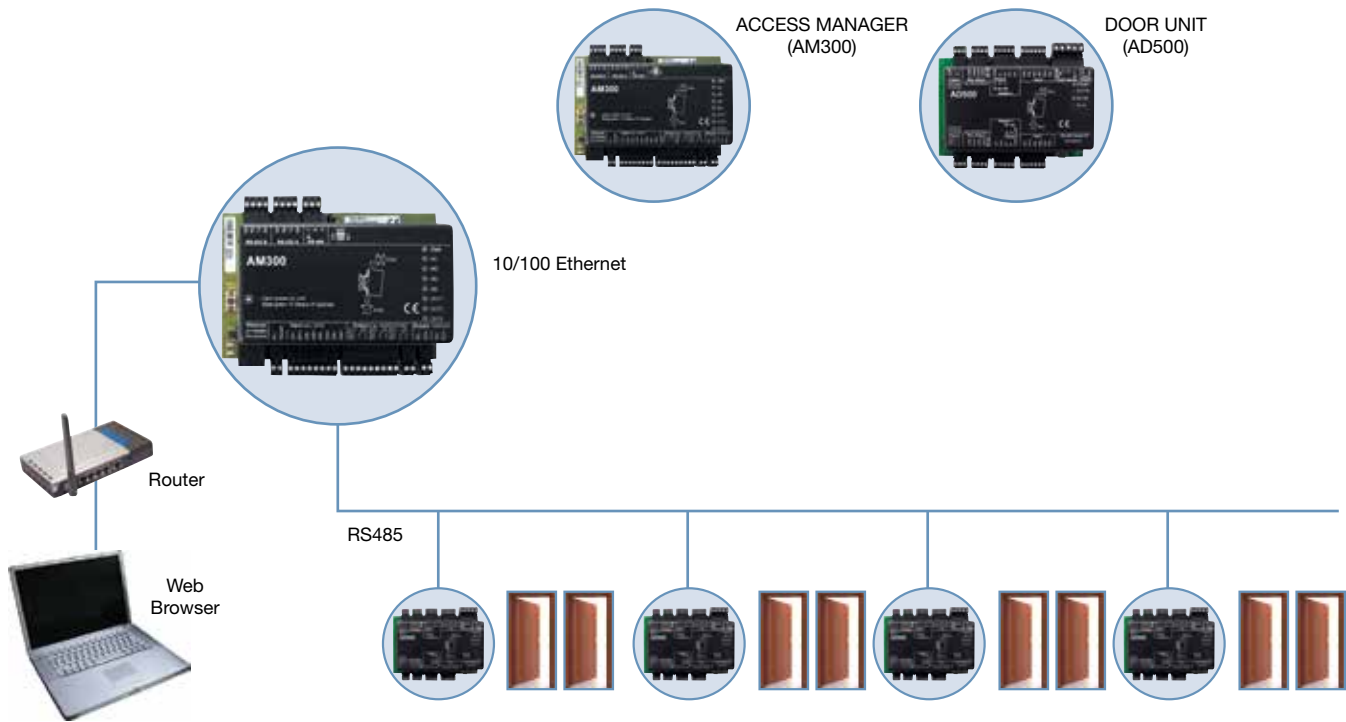
The Door Unit supports all standard access reader types:

- Fingerprint Key (Kaba I.AM)
- HID Proximity
- HID iCLASS®
- Other cards available (check for compatibility)

**SPECIFICATIONS**

- Interfaces.....Host interface: RS485
  - Reader interface: RS485 or Wiegand
  - Extension modules
  - Six inputs
  - Six binary outputs (open collector)
  - Two relay outputs (max. 34v/3A)
- External readers .....Fingerprint Key (Kaba I.AM), HID, AWID, Legic, Mifare, EM, Hitag, SC ISO 15693/ISO 14443A
- Mechanical.....DIN rail mounted with removable screw terminations of field hardware
  - Mounts in standard third-party locking enclosures
- Power Supply .....12 VDC +15%
- Consumption.....Typical consumption is 1.5 W up to 18 W
- Dimensions.....4.9 x 4.1 x 1.8" (125 x 105 x 45 mm) / without mounting rail
- Packaged Weight ..... .45 lb. (205 g)
- Operating Temperature.....32 to 122 °F (0 to 50 °C)
- Relative Humidity .....0 to 95%, non-condensing
- Protection.....Protection class according to IEC60529: IP40
- Housing and Installation .....Plastic housing for installation on DIN rail (125 mm)
  - Flammability class: HB (UL 94)

**SYSTEM DIAGRAM**



**CERTIFICATIONS**



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