



Integrated security solution

with AD-400 wireless devices,
AD-300 hardwired locks and
eAXxess/eFusion



Overview

Schlage AD Series hardwired and wireless locks seamlessly integrate with MAXXESS Systems to provide a cost effective and scalable access control solution.

The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications, the Schlage AD Series wireless locks and device, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

AD Series wireless locks combine the components typically found around the door, such as the door position switch and the request-to-exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

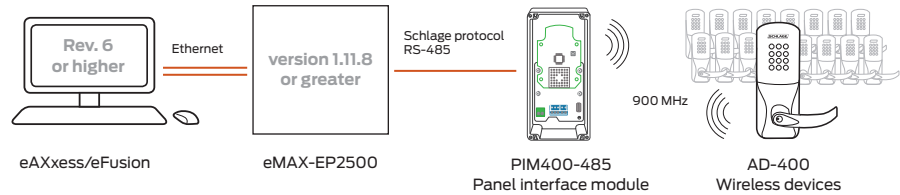
System Capabilities Summary

- AD-300 hardwired:
 - Field configurable fail safe/fail secure
- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
- Patent pending wireless lockdown/unlock feature via PIM400 (10 seconds or less preserves up to 2 year battery life)
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400)
 - Eliminate running wires to remote doors, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 via RS-485

- eMAX-EP2500 supports up to 64 AD Series locks total
- eMAX-EP2500 supports a maximum of 8 PIM400-485s per RS-485 port
There are 2 RS-485 ports
- eMAX-EP2500 support up to 8 PIM400-485s and/or AD-300s per RS-485 port
- Wireless range Up to 200' in building construction, up to 1000' line of site

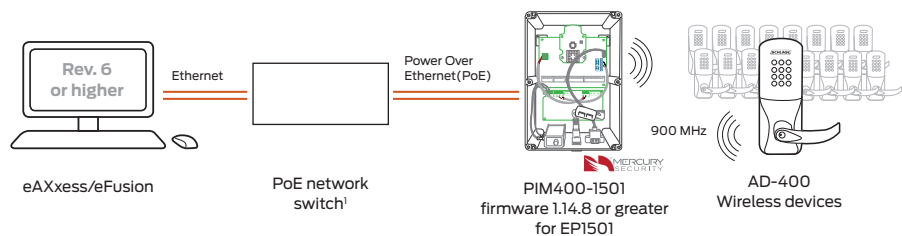
NOTE: Although not specifically shown, both AD-300s and AD-400s can be managed on a common port



AD-400 via PIM400-1501

- PIM400-1501 supports up to 16 AD-400 devices
- Wireless range Up to 200' in building construction, up to 1000' line of site

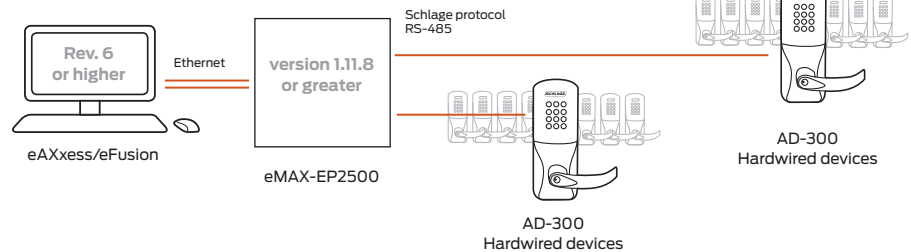
1 In order to have a UL Listed configuration a UL294 12VDC power supply must be used instead of PoE



AD-300 via RS-485 with eMAX-EP2500

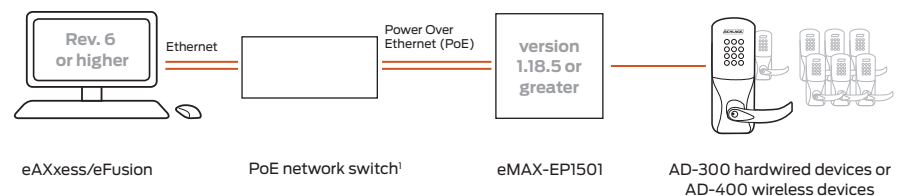
- eMAX-EP2500 supports up to 16 AD-300 locks (up to 8 AD-300 locks on each RS-485 port)

NOTE: Although not specifically shown, both AD-300s and AD-400s can be managed on a common port



AD-300 and AD-400 via RS-485 with eMAX-EP1501

- eMAX-EP1501 can control a total of 8 AD-300 or 16 AD-400 via up to 8 PIM400-485 on a common RS-485 data line
- eMAX-EP1501 can PoE (Power Over Ethernet) 2 AD-300. Remaining 6 AD-300 will be powered from an external 12/24VDC power supply.



Note: For performance reasons, it is recommended that no more than 8 PIMs be connected to a single RS-485 communication port.

PIM communication addresses must be unique within each communication port. Reader/WAPM addresses must be unique within communication ports.

Reader WAPM address 170 must not be used.

Note:

Please refer to AD-300, AD-400, PIM400-485, PIM400-TD2, PIM400-1501, WPR400, and WRI400 data sheets for complete AD Series specifications

System capabilities:

	AD-400 PIM400-485 eMAX-EP2500	AD-400 PIM400-1501	AD-300 Direct RS-485 eMAX-EP2500	AD-300 eMAX-EP1501	AD-400 eMAX-EP1501
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Features

Maximum number of readers supported by controller/PIM	64	16	16	8 AD-300 (2 PoE and up to 6 with separate power supply)	16
Maximum number of readers per PIM400	16	16	N/A	N/A	16
Maximum number of PIM400s and/or AD-300s per RS-485 port	Up to 8	N/A	Up to 8	Up to 8	Up to 8
Access control decision made by host or by lock database	Host	Host	Host	Host	Host
Remote Linking capability via Host	No	No	N/A	N/A	No

Readers - see supported card formats below

Keypad only	Yes	Yes	Yes	Yes	Yes
Magnetic stripe card	Yes	Yes	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes	Yes	Yes
PIV & PIV-I card compatible ¹	Yes	Yes	Yes	Yes	Yes
Card + PIN	Yes	Yes	Yes	Yes	Yes

Status monitors

Request to exit	Yes	Yes	Yes	Yes	Yes
Door position	Yes	Yes	Yes	Yes	Yes
Mechanical key override	Yes	Yes	Yes	Yes	Yes
Request to enter	No	No	No	No	No
Low battery status	Yes	Yes	N/A	N/A	Yes
Communication status: RF/RS-485	Yes /Yes	Yes/Yes	Yes	Yes	Yes /Yes
Remote lockdown/unlock	Yes (<10 sec) ²	Yes (<10 sec) ²	Yes	Yes	Yes (<10 sec) ²
Deadbolt position	No	No	No	No	No
Interior push button	No	No	No	No	No

Lock functions

Classroom/storeroom	Yes	Yes	Yes	Yes	Yes
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Please contact Maxxess for additional details on integrated features and credentials supported.

Supported card formats

Proximity cards (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart cards (13.56 MHz):

- aptiQ™ MIFARE Classic
- aptiQ™ MIFARE DESFire™ EV1
- PIV and PIV-I compatible¹

Smart cards (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire™ EV1

¹ FIPS-201-1 compliant option available requires FMK reader: The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-1 compliance. Specific components are required, please see the AD-401 and AD-301 data sheet for complete details. Contact Maxxess to confirm they are able to support your FIPS 201-1 credential format.

² For greater than 1 device will be <20 sec

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-400)



Cylindrical Lock (AD-400)



Exit Device Trim (AD-400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



605
Bright brass



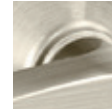
606
Satin brass



612
Satin bronze



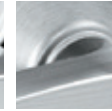
643e
Aged bronze



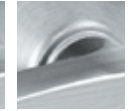
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

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About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



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