



# Integrated security solution

with AD-400/401 wireless and AD-300/301 hardwired locks and WinDSX



## Overview

The AD Series electronic locking platform is designed to be open and flexible. With its open architecture, the AD Series can be seamlessly integrated into any WinDSX or WinDSX SQL access control system with the use of DSX-L85 Integrated Lockset Management Software.

Schlage AD Series electronic locks combine all of the components typically found around the door; such as the reader, door position switch and the request-to-exit switch into one device; which simplifies installation and saves money.

Schlage AD Series electronic locks are available in hardwired and wireless configurations. For new construction, the AD-300 hardwired locks provide all of the benefits of a traditional access control solution. For existing facilities, the AD-400 wireless locks provide real time access control without having to run wires direct to each opening. Both AD Series Locksets work seamlessly with WinDSX and traditional door controllers and readers.

The AD Series can be customized with seven (7) different credential reader options including keypad, magnetic stripe, and multi-technology which reads both 125 kHz proximity and 13.56 MHz smart cards. All card readers are available with keypad for multi-factor authentication supporting up to 7 digit PINs. Designed to be modular, readers can easily be upgraded in the future to meet your changing credential needs.

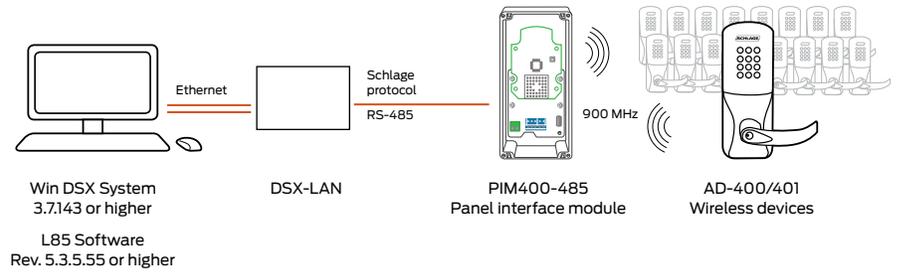
AD-301 and AD-401 FIPS 201-1 Compliant solutions available using FMK reader. Existing AD-300 and AD-400 locks can be upgraded to FIPS Compliant solutions by replacing existing reader with new FMK reader. Please contact DSX to confirm they will be able to support your FIPS 201 credential format.

## System Capabilities Summary

- System capabilities
  - 1 L85 deployment per location, 32,000 locations
  - Up to 126 locksets per L85 deployment
  - Up to 32 AD-400 / 10 AD-300 locking devices per communication line.
  - Broad RSI Protocol feature set. Unlimited client workstations.
  - No mandatory software maintenance package required
  - DSX supports Curfew function
- AD-400 wireless applications:
  - Communicates to the PIM400-485; each PIM400-485 supports up to 16 locksets
  - 900 MHz communication between AD-400 and PIM400 for secure, AES-128 bit encrypted transmission
  - Patent-pending wireless lockdown feature (10 seconds or less) preserves up to 2 year battery life
- AD-300 hardwired applications:
  - Communicates to L85 software via RS-485/ TCP/IP
- Additional details on readers supported and chassis types available on page 3 and 4
- AD Series wireless accessories available for remote, gate, elevator, and portable (mustering) applications.
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- AD Series meets ANSI/BHMA A156.25, ANSI/BHMA Grade 1 requirements and is UL 294 Listed

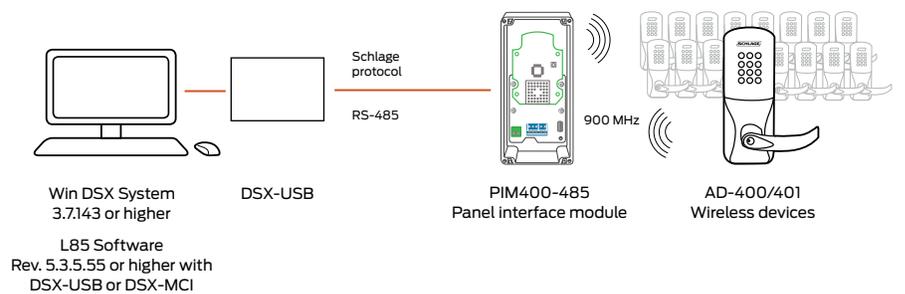
## AD-400/401 via RS-485 with L85 software and a DSX-LAN

- Up to 126 devices per L85 deployment. Larger Systems require multiple deployments.
- Up to 2 PIM400-485s per DSX-LAN
- Up to 16 AD-400/401 devices per PIM400-485
- Up to 32 AD-400/401s in total
- No mandatory software maintenance package required
- Wireless range up to 200' in typical building construction, up to 1000' line of sight



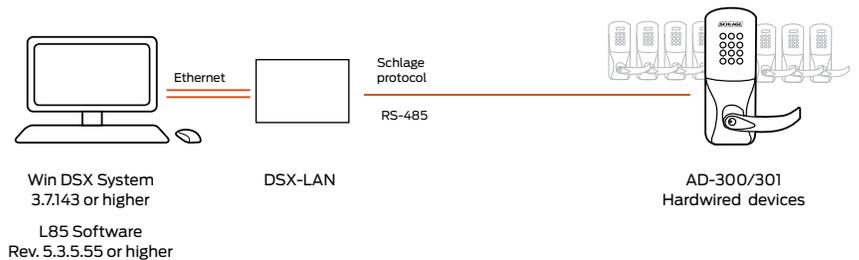
## AD-400/401 via RS-485 with L85 software and a DSX-USB or DSX-MCI

- Up to 126 devices per L85 deployment. Larger Systems require multiple deployments.
- Up to 2 PIM400-485s per DSX-USB/MCI
- Up to 16 AD-400/401 devices per PIM400-485
- Up to 32 AD-400/401s in total
- No mandatory software maintenance package required
- Wireless range up to 200' in typical building construction, up to 1000' line of sight



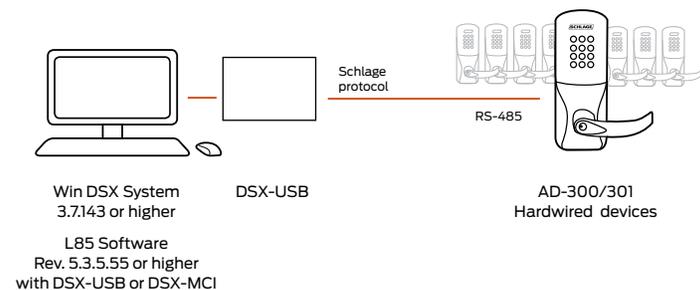
## AD-300/301 via RS-485 with L85 software and a DSX-LAN

- Up to 126 devices per L85 deployment. Larger Systems require multiple deployments.
- Up to 10 AD-300/301s per DSX-LAN
- No mandatory software maintenance package required



## AD-300/301 via RS-485 with L85 software and a DSX-USB or DSX-MCI

- Up to 126 devices per L85 deployment. Larger Systems require multiple deployments.
- Up to 10 AD-300/301s per DSX-USB/MCI
- No mandatory software maintenance package required



### Note:

Please refer to AD-300, AD-301, AD-400, AD-401, PIM400-485, and PIM400-TD2 data sheets for complete AD Series specifications.

Consult DSX for specific PC or server requirements to manage multiple DSX-LAN/USB/MCI devices.

While not specifically shown, AD-300/301 and AD-400/401 can be used on the same port, daisy chained. For Wiegand solutions, please contact DSX.

## System capabilities:

	AD-400/401 PIM400-485	AD-300/301 Direct RS-485
<b>Features</b>		
Maximum number of readers supported by DSX-LAN, DSX-USB/MCI Comm. Interface	32	10
Maximum number of readers per PIM400	Up to 16	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 port	Up to 2	Up to 10
Access control decision made by host or by lock database	Host	Host
Remote Linking capability via Host	Yes	N/A
<b>Readers - see supported card formats below</b>		
Keypad only	Yes (up to 7 digits or up to 5 digits for card or PIN )	Yes (up to 7 digits or up to 5 digits for card or PIN )
Magnetic stripe card	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes
PIV & PIV-I card compatible <sup>1</sup>	Yes	Yes
Card + PIN	Yes (up to 7 digits)	Yes (up to 7 digits)
<b>Status monitors</b>		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	Yes	Yes
Request to enter	Yes	Yes
Low battery status	Yes	N/A
Communication status: RF/RS-485	Yes / Yes	NA/Yes
Remote lockdown/unlock <sup>2</sup>	Yes (<10 sec) <sup>2</sup>	Yes
Deadbolt position	Yes	Yes
Interior push button	Yes	Yes
<b>Lock functions<sup>3</sup></b>		
Classroom/storeroom	Yes	Yes
Office	Yes	Yes
Privacy	Yes	Yes
Apartment	Yes	Yes
<b>Licensing</b>	Please contact DSX to determine licensing requirements.	

Please contact DSX Access Systems Inc. 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 compatible<sup>1</sup>

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

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

<sup>1</sup> FIPS 201 compliant option available: The AD Series can be used in applications which require approval by the US Federal Government under HSPD-12 for FIPS 201 compliance. Specific components are required, please see the AD-401 or AD-301 data sheet for complete details. Contact DSX to confirm they are able to support your FIPS 201-1 credential format.

<sup>2</sup> For greater than 1 device will be <20 sec.

<sup>3</sup> DSX also supports Curfew Function. Consult DSX for details.

Consult DSX for specific PC or server requirements to manage multiple DSX-LAN/USB/MCI devices

## 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-300/400-MS)



Cylindrical Lock (AD-300/400-CY)



Exit Device Trim (AD-300/400-993)



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

Cool tone finishes



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](http://www.allegion.com).

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