



# Integrated security solution

**bright blue®** and  
AD Series electronic locks

VANDERBILT



## Overview

Looking for a security solution that is affordable, flexible and easy to install and manage? Vanderbilt Industries **bright blue®** and Schlage have teamed up to provide web-based access management with integrated electronic locks to deliver a cost effective solution ideal for small to medium sized facilities.

With the **bright blue®** access control system from Vanderbilt Industries, changes such as adding or deleting users can be made from virtually any laptop or desktop computer. The **bright blue®** system features a user friendly interface, standardized reports and video integration; your system can be up and running in no time at all.

Installation of the hardware is simplified since Schlage AD Series integrated locks combine all of the components typically found around the door, such as the credential reader door position switch and the request-to-exit switch. Designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

By electronically scheduling lock and unlock times you will improve security and productivity. By issuing electronic credentials, like aptiQ™ smart cards, you not only know who gained access where and when but you reduce the costs associated with re-keying. When you invest in electronic access control within your facility you increase security, add convenience and save money over time.

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

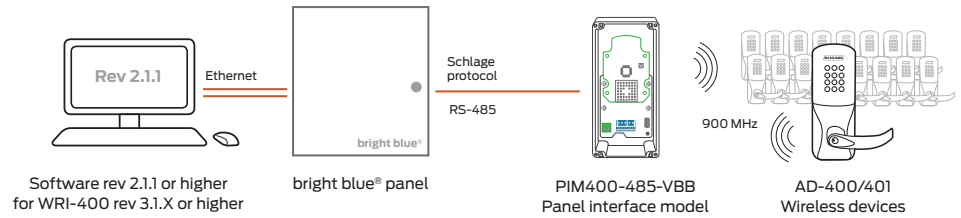
## System Capabilities Summary

- **bright blue®** supports up to 32 doors and up to 5,000 users
  - Convenient web-based application
  - Remote access and administration
  - No software to install and no dedicated PC required
  - Includes 2 on-board reader interfaces for direct connect
  - Holiday and event scheduling
  - Facility lockdown via credential or external push-button
  - Event notification via email and text
  - Degraded mode
  - Video management options
- For AD-400 wireless applications:
  - Communicates to the **bright blue®** controller via PIM400-485-VBB (RS-485); each supports up to 16 devices
  - 900 MHz communication between AD-400 and PIM400 for secure, encrypted transmission
  - Patent-Pending Wireless Lockdown feature (10 seconds or less) preserves 2 year battery life
- For AD-300 hardwired applications:
  - Directly communicates via RS-485 connection to the **bright blue®** panel
- Additional details on readers supported and chassis types available on page 3 and 4
- Supports classroom/storeroom function
  - Office function supported with RS-485 connection only
- AD Series: ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

## AD-400/401 via RS-485 with bright blue®

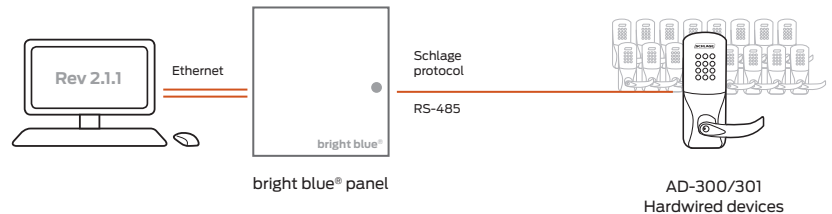
- **bright blue®** controller supports up to 32 RS-485 devices (AD-300/301 and AD-400/401 combined)
- **bright blue®** controller supports a maximum of 16 PIM400-485-VBB per RS-485 port
- There are 32 RS-485 ports on each **bright blue®** controller
- Wireless range up to 200' in typical building construction, up to 1000' line of sight

Note: Although not specifically shown, both AD-300/301s and AD-400/401s can be managed on a common RS-485 port.



## AD-300/301 via RS-485 with bright blue®

- **bright blue®** controller supports up to 32 RS-485 devices (AD-300/301 and AD-400/401 combined)
- **bright blue®** controller supports a maximum of 16 PIM400-485-VBB per RS-485 port
- There are 32 RS-485 ports on each **bright blue®** controller



Note:

Please refer to AD-300, AD-301, AD-400, AD-401, PIM400-485, WPR400, WRI400 data sheets for complete AD Series specifications.

## System capabilities:

	AD-400/401 PIM400-485-VBB	AD-300/301 Direct RS-485
<b>Features</b>		
Maximum number of readers supported by controller/PIM	32	32
Maximum number of readers per PIM400	16	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 Port	Up to 16	Up to 16
Access control decision made by host or by lock database	Host	Host
Remote Linking capability via Host	No	N/A
<b>Readers - see supported card formats below</b>		
Keypad only	Yes	Yes
Magnetic stripe card	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes (up to 32 bits smart card)	Yes (up to 32 bits smart card)
PIV & PIV-I card compatible <sup>1</sup>	Yes	Yes
Card + PIN	Yes (up to 4 digit PIN)	Yes (up to 4 digit PIN)
<b>Status monitors</b>		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	Yes <sup>3</sup>	Yes <sup>3</sup>
Request to enter	Yes	No
Low battery status	Yes	N/A
Communication status: RF/RS-485	Yes/Yes	Yes
Remote lockdown/unlock	Yes (<10 sec) <sup>2</sup>	Yes
Deadbolt position	Yes <sup>2,3</sup>	Yes <sup>2,3</sup>
Interior push button	Yes	Yes
<b>Lock functions</b>		
Classroom/storeroom	Yes	Yes
Office/toggle	Yes <sup>2,3</sup>	Yes <sup>2,3</sup>
Privacy	Yes <sup>2,3</sup>	Yes <sup>2,3</sup>
Apartment	Yes <sup>2,3</sup>	Yes <sup>2,3</sup>

Please contact Vanderbilt Industries 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 requires FMK reader: 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 and AD-301 data sheets for complete details. Contact Vanderbilt to confirm they are able to support your FIPS 201 credential format.

<sup>2</sup> Requires RS-485 connection to bright blue controller.

<sup>3</sup> Enhanced features that are only available in the upgraded versions of bright blue v2.1.1 or higher.

## 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)



Cylindrical Lock (AD-300/400)



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



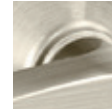
606 Satin brass



612 Satin bronze



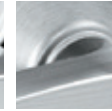
643e Aged bronze



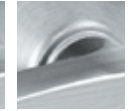
619 Satin nickel



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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