Integrated security solution

with AD-400 wireless devices,
AD-300 hardwired locks and
Lenel OnGuard®

Overview

Schlage AD Series hardwired and wireless locks seamlessly integrate with Lenel OnGuard® (version 6.6 SP1 or higher) to provide a cost effective and scalable access control solution.

OnGuard® offers advanced access control, alarm monitoring, digital video, intrusion detection, asset tracking, information security integration, credential production, and employee and visitor management functionality. Individual application modules are available as standalone systems or can be deployed in any combination to deliver a single, seamlessly integrated 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.
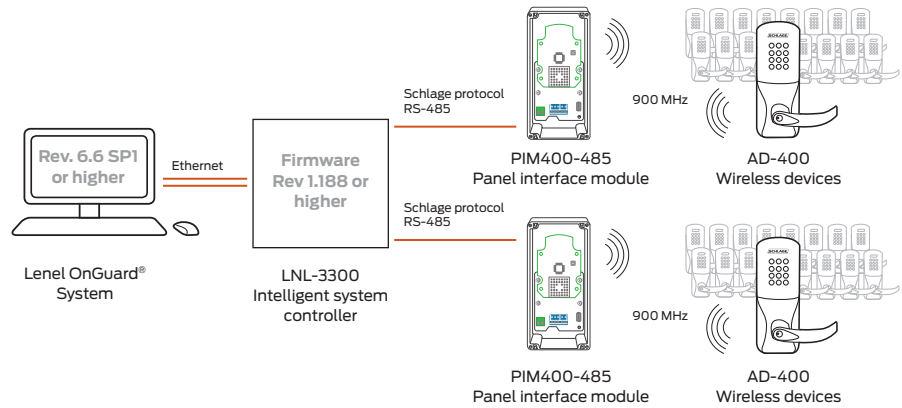
System Capabilities
Summary

- 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
  - Lenel OnGuard supports Remote Linking of AD-400 wireless locks

- 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: -31º to 151ºF (-35º to 66ºC)

- 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

- LNL-3300 supports up to 64 AD Series locks total

- LNL-3300 supports a maximum of 8 PIM400-485s or AD-300s per RS-485 port
There are 2 ports on each LNL-3300

- Wireless range up to 200' in building construction, up to 1000' line of sight
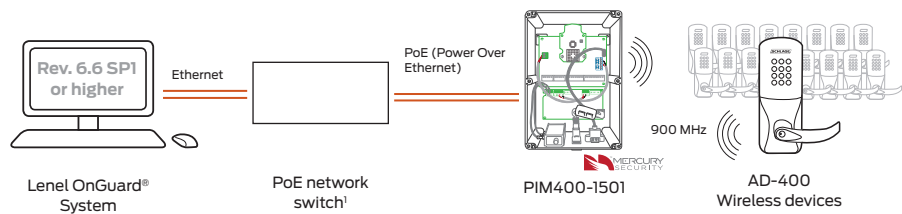
NOTE: Although not specifically shown, both AD-300s and AD-400s can be managed on a common port

Rev. 6.6 SP1 or higher

Lenel OnGuard® System

Ethernet

Firmware Rev 1.188 or higher

LNL-3300 Intelligent system controller

Schlage protocol RS-485

PIM400-485 Panel interface module

900 MHz

AD-400 Wireless devices

Schlage protocol RS-485

PIM400-485 Panel interface module

900 MHz

AD-400 Wireless devices

AD-400 via PIM400-1501
(PIM400-485 plus LNL-2210 in same enclosure)

- PIM400-1501 supports up to 16 AD-400 devices

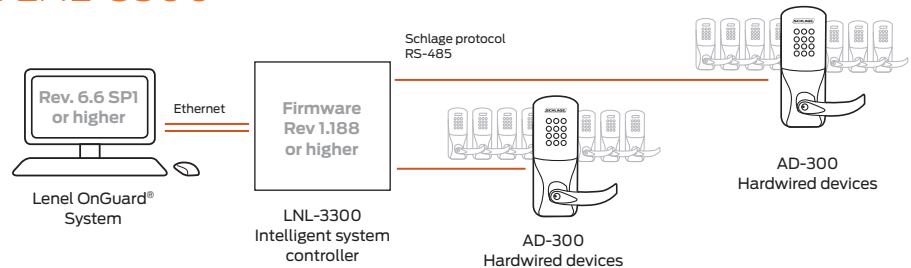- Wireless range Up to 200' in building construction, up to 1000' line of site

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

Rev. 6.6 SP1 or higher

Lenel OnGuard® System

Ethernet

PoE network switch[1]

PoE (Power Over Ethernet)

PIM400-1501

900 MHz

AD-400 Wireless devices
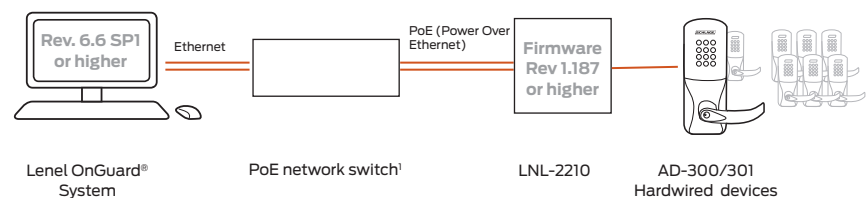
AD-300 via RS-485 with LNL-3300

- LNL-3300 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

Rev. 6.6 SP1 or higher

Lenel OnGuard® System

Ethernet

Firmware Rev 1.188 or higher

LNL-3300 Intelligent system controller

Schlage protocol RS-485

AD-300 Hardwired devices

AD-300 Hardwired devices

AD-300/301 via RS-485 with LNL-2210

- LNL-2210 can control a total of 8 AD-300/301 on a common RS-485 data line

- LNL-2210 can PoE (Power Over Ethernet) 2 AD-300/301

- Remaining 6 AD-300/301 will be powered from an external 12/24VDC power supply.

Rev. 6.6 SP1 or higher

Lenel OnGuard® System

Ethernet

PoE network switch[1]

PoE (Power Over Ethernet)

Firmware Rev 1.187 or higher

LNL-2210

AD-300/301 Hardwired devices

Contact Lenel when designing or adding on to a current system that currently uses the LNL-500W to support the AD-400.

Note:

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

For additional information contact Lenel: 1.800.631.6046 or www.lenel.com

System capabilities:

	AD-400 PIM400-485 (LNL-3300)	AD-400 PIM400-1501 (PIM400-485 + LNL-2210)	AD-300 Direct RS-485 (LNL-3300)	AD-300 (LNL-2210)
Features				
Maximum number of readers supported by controller/PIM	64	16	16	8 AD-300 (LNL-2210 can PoE (Power Over Ethernet) 2 AD-300/301)
Maximum number of readers per PIM400	16	16	N/A	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 port	Up to 8	N/A	Up to 8	Up to 8
Access control decision made by host or by lock database	Host	Host	Host	Host
Remote Linking capability via Host	Yes	Yes	N/A	N/A
Readers - see supported card formats below				
Keypad only	Yes (up to 9 digits)	Yes (up to 9 digits)	Yes (up to 9 digits)	Yes (up to 9 digits)
Magnetic stripe card	Yes	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes	Yes
PIV & PIV-I card compatible[1]	Yes	Yes	Yes	Yes
Card + PIN	Yes (up to 9 digits)	Yes (up to 9 digits)	Yes (up to 9 digits)	Yes (up to 9 digits)
Status monitors				
Request to exit	Yes	Yes	Yes	Yes
Door position	Yes	Yes	Yes	Yes
Mechanical key override	Yes	Yes	Yes	Yes
Request to enter	No	No	No	No
Low battery status	Yes	Yes	N/A	N/A
Communication status: RF/RS-485	Yes /Yes	Yes/Yes	Yes	Yes
Remote lockdown/unlock	Yes (<10 sec)[2]	Yes (<10 sec)[2]	Yes	Yes
Deadbolt position	Yes	Yes	Yes	Yes
Interior push button	Yes	Yes	Yes	Yes
Lock functions				
Classroom/storeroom	Yes	Yes	Yes	Yes
Office/toggle	Yes	Yes	Yes	Yes
Privacy	Yes	Yes	Yes	Yes
Apartment	Yes	Yes	Yes	Yes

Please contact Lenel 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[1]

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 Lenel 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-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

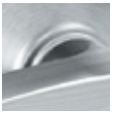| 605 Bright brass | 606 Satin brass | 612 Satin bronze | 643e Aged bronze |

Cool tone finishes

| 619 Satin nickel | 625 Bright chrome | 626 Satin chrome | 626AM Satin chrome with antimicrobial |

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.**

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For additional information contact Lenel: 1.800.631.6046 or www.lenel.com