AD Series electronic locks from Schlage® are designed to be modular and provide more options to choose from, more functionality in the lock and more compatibility with existing systems. Its patent-pending modular design allows the lock to be customized to fit the needs of an application now, and changed to meet future needs without removing it from the door.

Factory orderable options include choices of credential readers, chassis type, network configurations, locking functions, lever styles and finishes. It also offers a wide selection of features that can be configured in the field to customize your openings.

To simplify installation, the AD Series combines all the hardware components required at the door for a complete access control system into one integrated design that includes the electrified lock, credential reader, request-to-exit and request-to-enter sensors, door position switch, tamper switch and more.

The AD-300 has a number of features built-in that are configurable in the field and a long list of items that can be monitored by access control software. Please consult one of our Software Alliance Members for details on the integration of specific features.

Overview

AD-300
Networked hardwired electronic lock

Features and benefits

- Open architecture platform
- Panel interface options ensure seamless communication with your system
- Real-time communication between access control system and lock
- Field configurable fail safe/fail secure and other capabilities per code
- Available in cylindrical, mortise, mortise deadbolt and exit trim
- Compatible with major brands of master key systems
- A wide selection of credential readers and networking options to choose from
- Allows use of current aptiQ (Schlage) mobile credential utilizing NFC technology
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC), FL12400, FL1591, FL13013 and FL14482

1 Refer to the Schlage/aptiQ mobile credential compatibility chart for a list of certified devices.
2 Applies to cylindrical and mortise chassis only
## AD-300 electronic lock specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credential verification time</td>
<td>&lt; 1 second&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Data rate</td>
<td>RS-485 : 9.6 kbps</td>
</tr>
<tr>
<td>Visual/audible communications</td>
<td>Tri-colored LED’s and audible indicators (field configurable)</td>
</tr>
<tr>
<td>System interface</td>
<td>Wiegand or Clock &amp; Data via PIB300 or RS-485 directly</td>
</tr>
<tr>
<td>Power supply</td>
<td>12 VDC or 24 VDC</td>
</tr>
<tr>
<td>Voltage range</td>
<td>4 VDC to 26 VDC</td>
</tr>
<tr>
<td>Max current requirement</td>
<td>Up to 250 mA</td>
</tr>
<tr>
<td>Cable specifications for power</td>
<td>18AWG, 2 conductor (Belden 8760 or equivalent)</td>
</tr>
<tr>
<td>Cable distance for power</td>
<td>AD-300 to power supply: up to 1000 ft (303 m)</td>
</tr>
<tr>
<td>Cable specifications for data</td>
<td>24AWG, 2 or 4 conductor shielded (Belden 9841, 9842 or equivalent)</td>
</tr>
<tr>
<td>Cabling distance for data</td>
<td>AD-300 to PIB300 or ACP, RS-485: up to 4000 ft (1219 m)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-31°F to 151°F (-35°F to 66°C)</td>
</tr>
<tr>
<td>Operating humidity</td>
<td>0 - 100% non-condensing</td>
</tr>
<tr>
<td>Certifications</td>
<td>ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10 C, FCC Part 15, ADA, RoHS</td>
</tr>
<tr>
<td>Accessories</td>
<td>Panel Interface Board (PIB300), Handheld Device (HHD), Dry Contact Relay Board (RLBD) may be required for supervised inputs (Wiegand systems)</td>
</tr>
</tbody>
</table>

### PIB300-2D specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication range</td>
<td>PIB300 to lock, RS-485: up to 4000 ft (1219 m)</td>
</tr>
<tr>
<td></td>
<td>PIB300 to ACP, Wiegand or Clock &amp; Data: up to 500 ft (152 m)</td>
</tr>
<tr>
<td>Visual/audible</td>
<td>13 LEDs for status indicators</td>
</tr>
<tr>
<td>System interface</td>
<td>Wiegand or Clock &amp; Data</td>
</tr>
<tr>
<td>Power supply</td>
<td>12 VDC or 24 VDC</td>
</tr>
<tr>
<td>Voltage range</td>
<td>9.5 VDC to 26 VDC</td>
</tr>
<tr>
<td>Max current requirement</td>
<td>Up to 250 mA</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-31°F to 151°F (-35°F to 66°C)</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>7.1&quot; x 7.1&quot; x 3.0&quot; (18.0 cm x 18.0 cm x 7.6 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>1.25 lb (.57 kg)</td>
</tr>
<tr>
<td>Cable specifications (PIB300 to ACP)</td>
<td>22AWG, 8 conductor shielded (Alpha 1298C or equivalent)</td>
</tr>
<tr>
<td>Certifications</td>
<td>NEMA 1, 4, 4X, 6; UL 294; FCC Part 15; RoHS</td>
</tr>
</tbody>
</table>

### Available status signals

- Lock/unlock status<sup>5</sup>
- Request-to-exit
- Door position
- Mechanical key override<sup>3</sup>
- Deadbolt position<sup>3</sup>
- Interior cover tamper guard<sup>3</sup>
- Communication status<sup>3</sup>
- Interior push button<sup>3</sup>
- Request-to-enter<sup>3</sup>

### Panel Interface Board (PIB300-2D)

If the system requires Wiegand or Clock & Data protocol (rather than a direct RS-485 connection), the AD Series open architecture platform connects up to two AD-300 locks to the Panel Interface Board (PIB300 - sold separately, if required) that seamlessly connects to an access control panel or reader interface board. All monitoring is captured at the remote monitoring station.

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<sup>1</sup> Lock requires less than 100 msec, response time does not include latency time of ACP.

<sup>2</sup> Classroom/storeroom function not available with mortise deadbolt option.

<sup>3</sup> Consult your access control software provider for specific scope of support. Interior pushbutton, mechanical key override and deadbolt position are only available when linked via PIM400-485.

<sup>4</sup> Not available on exit trim.

<sup>5</sup> Software indicates lock/unlock status based on sequence of events, but cannot validate mechanical clutch position unless monitored on RS-485 connection.
## Mechanical specifications

<table>
<thead>
<tr>
<th>Chassis</th>
<th>Cylindrical</th>
<th>Mortise</th>
<th>Exit trim</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handing</td>
<td>Handed to order, field reversible</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### ANSI standard (Meets or exceeds)

- A156.25: Mortise
- A156.2 Series 4000: Grade 1
- A156.13 Series 1000: Grade 1
- A156.25: Mortise

### Door thickness

- 1 1/4" standard, 1 1/4" to 2 1/4" optional (available in 1/4" increments)

### Backset

- Standard: 2 1/4" only
- Optional: 2 1/4", 3 3/4", 5"

### Latch bolt

- Standard: 1/4" throw
- Optional: 1/4" throw, 3/8" throw, 1" throw on mortise deadbolt

### Levers

- Pressure cast zinc, plated

### Strike

- Standard: 1 1/8" lip, ANSI, 1 1/4" x 4 1/4"
- Optional: Additional configurations available (please see price book)

### Cylinder and keys

- Schlage® 6-pin Everest 29 SI23 keyway
- Conventional cylinder with two patented keys standard. Additional options available including SPIC, FSIC and competitor brands. See lever and cylinder compatibility data sheet (010432)

## Multi-technology reader specification

### Frequency

- 125 kHz proximity and 13.56 MHz smart card

### Standards

- Standards ISO standard 15693 and ISO 14443

### Maximum read range

- Up to 1.25" on 125 kHz proximity, up to 0.75" on 13.56 MHz smart card

### 125 kHz proximity credential use

- **Compatibility**: Schlage, XceedID®, HID®, GE/CASI ProxLite®, AWID® and LenelProx®
- **Schlage credential style formats**: Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, and PVC adhesive disk

### 13.56 MHz smart credential use

- **Secure sector compatibility**: Schlage and aptiQ® MIFARE Classic®, XceedID, Schlage MIFARE Plus®, Schlage and aptiQ® MIFARE DESFire® EV1 with PACSA, PIV and PIV-I®; aptiQ® (Schlage) mobile credential utilizing NFC technology
- **CSN only compatibility**: DESFire, HID iClass®, Inside Contactless Pico Tag®, MIFARE, MIFARE DESFire EV1, ST Microelectronics®, Texas Instruments Tag-it®, Phillips I-Code®
- **Schlage credential style formats**: Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, wearable wristband, NFC mobile, and PVC adhesive patch

### Certifications/standards

- FCC, Industry Canada (IC), UL 294 Listed, ISO standard 15693, and ISO standard 14443

### Style/layout

- Option for 12 button, 3x4 matrix backlit keypad

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1. FIPS 201-2 integration ready option available: The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-2 compliance when installed as part of a tested and approved integrated solution. Please see the AD-402 data sheet or the AD-302 data sheet for complete details.
2. 75 bit output format default. Configurable to other output formats.
3. Refer to the Schlage/aptiQ mobile credential compatibility chart for a list of certified devices.

## Benefits of AD Series multi-technology readers:

- Reads multiple brands of both proximity (125 kHz) and smart (13.56 MHz) technologies with single reader
- Allows use of current aptiQ (Schlage) mobile credential utilizing NFC technology
- Allows facility to migrate to more secure credential technologies over time and as budgets permit

## Additional readers

### Smart – iClass compatible

- Smart card reader only
- Reads secure sector of HID IClass, iClass SE, iClass SEOS, iClass Standard Key, and iClass Elite Key; Schlage MIFARE Classic, MIFARE Plus, and MIFARE EV1
- BLE mobile credential not supported

### Magnetic stripe

- Available with choice of insertion or swipe style readers
- Triple track reader (1, 2 or 3), field configurable
- ABA, ISO76XX standard

### Keypad

- Backlit keypad
- 12 button, 3x4 matrix

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[Image of Schlage AD-300 series exit trim]

### AD Series exit trim:

AD-300 exit trim is exclusively compatible with Von Duprin® 98/99 and 98/99XP (Rim, Mortise, and SVR. CVC and CVR on Metal doors only), Von Duprin 22/22F (Rim and SVR) and Falcon® 25 (Rim) exit devices made by Allegion®. The proper low current request-to-exit switch (RX-LC or AE) is required.

Part numbers for request-to-exit switch:
- Von Duprin: 050281
- Falcon: 650359

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### Available AD Series reader modules

- Multi-technology
  - Proximity
  - Smart card
  - NFC mobile
- Magnetic stripe
  - Insertion
  - Swipe
- Keypad

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Schlage • AD-300
Ordering information

Available through one of our GSA schedule 84 approved distributions; BAA options available.


<table>
<thead>
<tr>
<th>Series</th>
<th>Class</th>
<th>Chassis</th>
<th>Function</th>
<th>Reader</th>
<th>Lever style</th>
<th>Finish</th>
<th>Lever cylinder type</th>
<th>Handing</th>
<th>Backset and latch</th>
<th>Strike</th>
<th>Door thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
</tr>
</tbody>
</table>

Selections correspond with the numbers above.

Standard options are indicated in bold. See price book for specific configuration options.

3 Chassis
- CY Cylindrical
- MS Mortise
- MD Mortise deadbolt
- 993R Exit trim – Rim/CVC/CVR
- 993S Exit trim – SVR
- 993M Exit trim – mortise
- 993DT Non-functioning dummy trim for exit

4 Function
- 70 Classroom/storeroom
- 50 Office
- 40 Privacy
- 60 Apartment

Lock function capabilities are determined by users access control system

5 Reader
- KP Keypad
- MG Magnetic stripe (insertion)
- MGK Magnetic stripe + keypad (insertion)
- MS Magnetic stripe (swipe)
- MSK Magnetic stripe + keypad (swipe)
- MT Multi-technology (125kHz and 13.56 MHz)
- MTK Multi-technology + keypad (125kHz and 13.56 MHz)
- FMK FIPS 201-2 compliant multi-technology + keypad (125 kHz and 13.56 MHz)
- Si Smart – iClass compatible
- SiK Smart – iClass compatible + keypad
- DT Dummy trim

6 Lever
- ATH Athens
- BRK Boardwalk
- BRW Broadway
- LAT Latitude
- LON Longitude
- RHO Rhodes
- SPA Sparta
- TLR Tubular

Available with tactile warning options

7 Finish
- 626 Satin chrome
- 605 Bright brass
- 606 Satin brass
- 612 Satin bronze
- 619 Satin nickel
- 625 Bright chrome
- 643e Aged bronze
- 626AM Satin chrome antimicrobial

8 Lever cylinder type

9 Keyway type

10 Handing
- RH Right handed
- LH Left handed

Field reversible

11 Backset and latch or armor front
- Cylindrical
  - 13-049 2 1/4" backset, deadlatch, square corner, 1 1/8" x 2 1/4"
- Mortise
  - 09-663 Armor front, 1 1/4" wide, square corner

See price book for mortise deadbolt and other backset and latch options or armor front options.

12 Strike

Cylindrical
- 10-025 1 1/8" lip, ANSI, no box, 1 1/4" x 4 1/8"

Mortise
- 10-072 1 1/16" lip, 1 1/4" x 4 1/8" square corner, box

See price book for other available strikes

13 Door thickness
- 1 3/4"
- Other thicknesses available between 1 1/8" and 2 1/4"

See price book for detail

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®, SimonsVoss® 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.