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

- **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.
  - 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°F to 151°F (-35°C 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:

<table>
<thead>
<tr>
<th>Feature</th>
<th>AD-400/401</th>
<th>AD-300/301</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIM400-485</td>
<td>32</td>
<td>10</td>
</tr>
<tr>
<td>AD-300/301</td>
<td>Up to 16</td>
<td>N/A</td>
</tr>
<tr>
<td>AD-400/401</td>
<td>Up to 2</td>
<td>Up to 10</td>
</tr>
<tr>
<td>AD-300/301</td>
<td>Host</td>
<td>Host</td>
</tr>
<tr>
<td>Remote Linking capability via Host</td>
<td>Yes</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>AD-400/401</th>
<th>AD-300/301</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum number of readers supported by DSX-LAN, DSX-USB/MCI Comm. Interface</td>
<td>32</td>
<td>10</td>
</tr>
<tr>
<td>Maximum number of readers per PIM400</td>
<td>Up to 16</td>
<td>N/A</td>
</tr>
<tr>
<td>Maximum number of PIM400s and/or AD-300s per RS-485 port</td>
<td>Up to 2</td>
<td>Up to 10</td>
</tr>
<tr>
<td>Access control decision made by host or by lock database</td>
<td>Host</td>
<td>Host</td>
</tr>
<tr>
<td>Remote Linking capability via Host</td>
<td>Yes</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Readers - see supported card formats below

**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**
- Yes
- Yes

**Card + PIN**
- Yes (up to 7 digits)
- Yes (up to 7 digits)

### Status monitors

<table>
<thead>
<tr>
<th>Feature</th>
<th>AD-400/401</th>
<th>AD-300/301</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request to exit</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Door position</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Mechanical key override</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Request to enter</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Low battery status</td>
<td>Yes</td>
<td>N/A</td>
</tr>
<tr>
<td>Communication status: RF/RS-485</td>
<td>Yes / Yes</td>
<td>NA / Yes</td>
</tr>
</tbody>
</table>
| Remote lockdown/unlock | Yes (<10 sec)
2 | Yes |
| Deadbolt position | Yes | Yes |
| Interior push button | Yes | Yes |

### Lock functions

<table>
<thead>
<tr>
<th>Feature</th>
<th>AD-400/401</th>
<th>AD-300/301</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classroom/storeroom</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Office</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Privacy</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Apartment</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Licensing

Please contact DSX to determine licensing requirements.

### 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

#### Smart cards (13.56 MHz) - reads card serial number only:
- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire™ EV1

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1 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.

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

3 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.
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.