Overview

The AD-201 is a simple and economical standalone solution for applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-1 compliance. The solution consists of the AD-201 integrated electronic lock with multi-technology + keypad (FMK) reader module, the handheld programming device (HHD) and the MT20 enrollment reader.

The innovative modular design of the AD-201 allows reader modules and communication modules to easily be upgraded. As a result, the AD-201 standalone lock can become an AD-401 networked wireless locks in minutes, without even taking it off the door.

The FMK reader module comes standard with the AD-201 lock and also can be ordered separately for field upgrades. It is for use with PIV and PIV-I credentials. The FMK is a multi-technology reader that supports 125 kHz proximity and 13.56 MHz smart cards.

Schlage Express offline access control software is used in conjunction with the AD-201 to manage access points, users and schedules. Reporting capability is available to show audit trails retrieved, access privileges granted, and time functions established by either user or door.

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The MT-20 is an enrollment reader is designed to simplify the credential enrollment process. You can easily enroll 75-bit and 200-bit PIV, PIV-I or other smart card into Schlage Express using the MT-20 connected to your computer’s USB port.

The handheld device is the link between Schlage Express software and the AD-201 lock. It consolidates and simplifies programming and managing your access control system. It is used to initialize, configure and test product operation as well as to transfer information between the lock and the software.

Features and benefits

**AD-201 FIPS 201 lock**
- FIPS 201 compliant multi-technology reader for use with PIV and PIV-I credentials
- Upgradable to an AD-401 FIPS 201-1 compliant wireless lock
- Available in cylindrical, mortise, mortise deadbolt and exit trim
- UL 294 listed, ANSI/BHMA A156.25 and ANSI/BHMA Grade 1 certified

**Schlage Express™ offline software**
- Offline software used to manage AD-201 locks
- Supports up to 2000 users/audits with 50 locks or 1000 users/audits with 100 locks
- Supports up to 8 time zone and up to 16 holidays and auto unlocks per system

**MT-20 enrollment reader**
- USB reader makes it easy to enroll credentials in Schlage Express™
- Recognizes aptiQ™ smart credentials (MIFARE® classic and MIFARE DESFire™ EV1) and 75-bit or 200-bit PIV credentials

**Handheld programming device**
- Allows you to initialize, configure and test AD-201 locks
- Used to transfer user rights from Schlage Express to AD-201
- Transfers audits trails from AD-201 to Schlage Express
AD-201 electronic lock specifications

- **Credential verification time**: ≤ 1 second
- **Visual/audible communications**: Tri-colored LEDs and audible indicators (field configurable)
- **System interface**: Handheld Device (HHD)
- **Power supply**: 4AA, 8AA, 12 VDC or 24 VDC
- **Voltage range**: 4 VDC to 26 VDC
- **Max current requirement**: Up to 250 mA
- **Battery life**: Up to 2 yrs with 4AA
- **Operating temperature - exterior**: -31° to 151°F (-35° to 66°C)
- **Operating temperature - interior**: 32° to 120°F (0° to 49°C) (battery)
- **Operating humidity**: 0 - 100% non-condensing
- **Certifications**: ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C, FCC Part 15, ADA, RoHS
- **Accessories**: Handheld Device (HHD)

### Multi-technology reader specification

- **Frequency**: 125 kHz proximity and 13.56 MHz smart card
- **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 compatibility**: Schlage Proximity, XceedID™ Proximity, HID® ProxLite®, AWID® Proximity, LenelProx®
- **13.56 MHz compatibility**: MIFARE® Secure Sector, XceedID™ MIFARE® Secure Sector, aptiQ™ smart cards using MIFARE DESFire™ EV1 with PACSA; PIV and PIV-I
- **DESFire® CSN, HID® CLASS® CSN, Inside Contactless PicoTag® CSN, MIFARE®, MIFARE DESFire™ EV1, ST Microelectronics® CSN, Texas Instruments Tag-it® Serial Number, Phillips I-Code® CSN
- **125 kHz compatible XceedID credentials**: 125 kHz clamshell, ISO card, ISO card with magnetic stripe, keyfob, and PVC disk (7000 Series)
- **13.56 MHz compatible aptiQ™ credentials**: aptiQ™ smart cards using MIFARE® in clamshell, ISO card, ISO card with magnetic stripe, Keyfob and PVC Patch (9000 Series); aptiQ™ smart cards using MIFARE DESFire™ EV1 in clamshell, ISO card, ISO card with magnetic stripe, keyfob, and PVC disk (8000 Series)
- **FCC**: UL 294 Listed, ISO standard 15693, ISO standard 14443, and FIPS 201-1
- **Style/layout**: Option for 12 button, 3x4 matrix backlit keypad

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1. Verification time is dependent on size of user base
2. The AD Series FIPS 201-1 compliant option can be used in applications which require approval by the U.S. Government under HSPD-12 for FIPS 201-1
Schlage Express specifications

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Intel Pentium II processor (Pentium III or IV recommended), CD-ROM, mouse or compatible pointing device, VGA or Super VGA monitor, keyboard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard disk space</td>
<td>250 MB for software; will require additional space for stored data</td>
</tr>
<tr>
<td>Memory</td>
<td>256 MB RAM minimum or the memory required for the operating system, whichever is greater</td>
</tr>
<tr>
<td>Operating system</td>
<td>Microsoft Windows XP, Windows 7 and Windows 8</td>
</tr>
<tr>
<td>Reports with the built-in viewer Internet Explorer 6 or higher must be installed.</td>
<td></td>
</tr>
</tbody>
</table>

Schlage Express AD-201 specifications

| Users/audits | 2,000 Users/audits with 50 AD-201 locks/devices  
|             | 1,000 Users/audits with 100 AD-201 locks/devices |
| User time zones | Limits the hours and days a user can access up to 8 assigned points |
| Holidays |Suspends normal operations for user defined periods per door during up to 16 non-normal days |
| PIN codes |  3 Supports up to 6 digit PIN codes  
|          | Special PIN notification feature |
| Auto unlock schedules | Allows weekly repeating for automatic locking and unlocking of up to 16 defined |

The Schlage Utility Software (SUS) on the Handheld Device (HHD) provides an easy way to manage people, audits and locks for simple access control management.

Schlage Utility Software on Handheld Device

- Initialize lock and accessories  
- Field configure devices  
  - Credential reader formats  
  - Lock function  
  - Unlock period  
  - Failure mode  
  - Audible alarm on/off  
- Service and diagnostics  
  - Battery status  
  - Validate hardware and software revision  
  - Troubleshooting status signals  
- New device template simplifies configuration

HHD

- 3.5 in LCD display  
- Touch screen/keypad backlit  
- 32-bit processor  
- OS: Windows Mobile 5.0  
- Memory: 128 MB RAM/256 MB ROM  
- Battery: Rechargeable 3.7 v, 1,230 mAh, Li-ion  
- Dimensions: 5.3" x 2.9" x 0.7" (13.5 cm x 7.3 cm x 1.8 cm)  
- Weight: 0.42 lbs (190 g)  
- 4 ft (1.2 m) drop to steel surface, 2 drops per 6 sides

The HHD connects with AD Series and CO Series locks and accessories via the USB interface.

HHD is also compatible with CM, CL, VIP, WA and KC2 Series locks in a serial cable connection.
### 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</th>
<th>Keying type</th>
<th>Handling</th>
<th>Battery</th>
<th>Backset and latch</th>
<th>Strike</th>
<th>Door thickness</th>
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</thead>
<tbody>
<tr>
<td>AD-201</td>
<td>CY-70</td>
<td>FMK-SPA</td>
<td>626-PD</td>
<td>S123-RH</td>
<td>4B-13-049</td>
<td>10-025</td>
<td>1 3/4</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>3</th>
<th>Chassis</th>
<th>CY</th>
<th>Cylindrical</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>Function</td>
<td>70</td>
<td>Classroom/storeroom</td>
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<tr>
<td>5</td>
<td>Reader</td>
<td>FMK</td>
<td>FIPS 201-1 compliant multi-technology + keypad (125 kHz and 13.56 MHz)</td>
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<tr>
<td>6</td>
<td>Lever</td>
<td>SPA</td>
<td>Sparta</td>
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<tr>
<td>7</td>
<td>Finish</td>
<td>626</td>
<td>Satin chrome</td>
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<tr>
<td>8</td>
<td>Lever cylinder type</td>
<td>PD</td>
<td>Schlage 6-pin full cylinder</td>
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<td>9</td>
<td>Keyway type</td>
<td>S123</td>
<td>Everest 29</td>
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<tr>
<td>10</td>
<td>Handling</td>
<td>RH</td>
<td>Right handed</td>
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<tr>
<td>11</td>
<td>Battery</td>
<td>4B</td>
<td>4AA</td>
</tr>
</tbody>
</table>

### Lever Styles

Standard cylinders shown, SFIC and FSIC also available.

- Sparta
- Rhodes
- Athens
- Tubular

### Finishes

- Warm tone finishes
- Cool tone finishes

#### Cool tone finishes

- Bright brass
- Satin brass
- Satin bronze
- Aged bronze
- Satin nickel
- Bright chrome
- Aged bronze
- Satin chrome antimicrobial

- 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®, 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](http://www.allegion.com).

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