SCHLAGE

AD-201

FIPS 201-1 compliant standalone electronic lock with multi-technology + keypad reader

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 SUSB-89 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.

The SUSB-89 is an enrollment reader is designed to simplify the credential enrollment process. You can easily enroll a PIV, PIV-I or other smart card into Schlage Express using the SUSB-89 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

SUSB-89 enrollment reader
- USB reader makes it easy to enroll credentials in Schlage Express™
- Recognizes aptiQ™ smart credentials (MIFARE® classic and MIFARE DESFire™ EV1) and 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[1]
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	-31º to 151ºF (-35º to 66ºC)
Operating temperature - interior	32º to 120ºF (0º to 49ºC) (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)
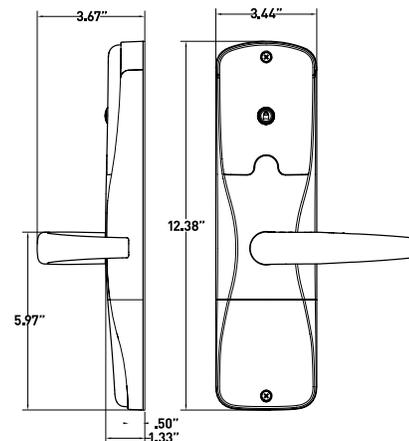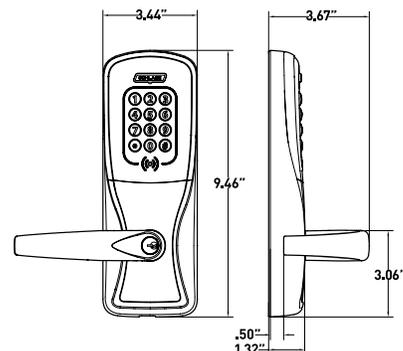
Mechanical specifications

Chassis	Cylindrical	Mortise	Exit trim
Handing	Handed to order, field reversible		
ANSI standard (Meets or exceeds)	A156.25 A156.2 Series 4000 Grade 1	A156.25 A156.13 Series 1000 Grade 1	A156.25 A156.3
Door thickness	1 3/4" standard, 1 3/8" to 2 3/4" optional (available in 1/8" increments)		
Backset	Standard: 2 3/4" Optional: 2 3/8", 3 3/4", 5"	2 3/4" only	Defined by exit device
Latch bolt	Standard: 1/2" throw Optional: 3/4" throw	Standard: 3/4" throw Optional: 1" throw on mortise deadbolt	Provided by exit device
Levers	Pressure cast zinc, plated	Steel, plated	Steel, plated
Strike	Standard: 1 3/16" lip, ANSI, 1 1/4" x 4 7/8" Optional: Additional configurations available please see price book		Provided by exit device
Cylinder and keys	Schlage 6-pin Everest 29 S123 keyway cylinder with two patented keys standard Additional options available including Standard, SFIC, FSIC and competitor brands		

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® Proximity, GE/CASI ProxLite®, AWID® Proximity, LenelProx®
13.56 MHz compatibility	Schlage MIFARE® Secure Sector, XceedID™ MIFARE® Secure Sector, aptiQ™ smart cards using MIFARE DESFire™ EV1 with PACSA; PIV and PIV-I[2]
13.56 MHz compatibility (serial number only)	DESFire® CSN, HID iCLASS® 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)
Certifications/standards	FCC, UL 294 Listed, ISO standard 15693, ISO standard 14443, and FIPS 201-1
Style/layout	Option for 12 button, 3x4 matrix backlit keypad

AD Series FMK reader modules

**FIPS 201-1 compliant multi-technology**

- FMK reader required for FIPS 201-1 compliant multi technology and keypad reader supporting both proximity and smart cards

  + KEYPAD

[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

Hardware	Intel Pentium II processor (Pentium III or IV recommended), CD-ROM, mouse or compatible pointing device, VGA or Super VGA monitor, keyboard
Hard disk space	250 MB for software; will require additional space for stored data
Memory	256 MB RAM minimum or the memory required for the operating system, whichever is greater
Operating system	Microsoft Windows XP, Windows 7 and Windows 8

Reports with the built-in viewer Internet Explorer 6 or higher must be installed.

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	• Supports up to 6 digit PIN codes • Duplicate PIN notification feature
Auto unlock schedules	Allows weekly repeating for automatic locking and unlocking of up to 16 defined

AD-201 standalone system

PIV or PIV-1 credential → SUSB-89 enrollment reader → Access control management system → Handheld programming device (HHD) → AD-201 FIPS 201 compliant standalone electronic lock
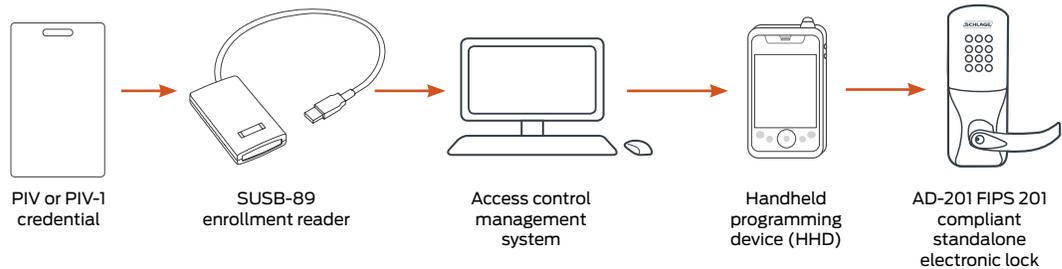
Schlage Utility Software on Handheld Device

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
- 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

AD – 201 – CY – 70 – FMK – SPA – 626 – PD – S123 – RH – 4B – 13-049 – 10-025 – 1 ³⁄₄

Series	Class	Chassis	Function	Reader	Lever style	Finish	Lever cylinder	Keying type	Handing	Battery	Backset and latch	Strike	Door thickness
1	2	3	4	5	6	7	8	9	10	11	12	13	14

Selections correspond with the numbers above

Standards 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

5	Reader
FMK	FIPS 201-1 compliant multi-technology + keypad (125 kHz and 13.56 MHz)

6	Lever
SPA	Sparta
RHO	Rhodes
ATH	Athens
TLR	Tubular

Available with knurled surface

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
PD	Schlage 6-pin full cylinder

See price book for other SFIC, FSIC and Less Cores options available. Compatible with Schlage, Sargent, Corbin, Medeco and Yale.

9	Keyway type
S123	**Everest 29**

See price book for other available keyway options including master keying

10	Handling
RH	**Right handed**
LH	Left handed

Field reversible

11	Battery
4B	**4AA**
8B	8AA

12 Backset and latch or armor front

Cylindrical

13-049 — 2 ³⁄₄" 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

13 Strike

Cylindrical

10-025 — 1 ³⁄₁₆" lip, ANSI, no box, 1 ¹⁄₄" x 4 ⁷⁄₈"

Mortise

10-072 — 1 ³⁄₁₆" lip, 1 ¹⁄₄" x 4 ⁷⁄₈" square corner, box

See price book for other available strikes

14 Door thickness

1 ³⁄₄"

Other thicknesses available between 1 ³⁄₈" and 2 ³⁄₄"

See price book for detail

Lever styles

Standard cylinders shown, SFIC and FSIC also available.

Sparta

Rhodes

Athens

Tubular

Finishes

Warm tone finishes   Cool tone finishes
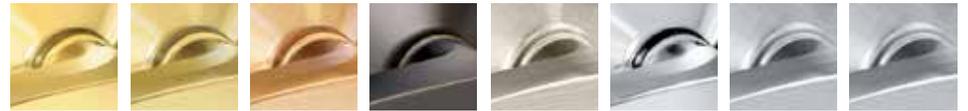
| 605 Bright brass | 606 Satin brass | 612 Satin bronze | 643e Aged bronze | 619 Satin nickel | 625 Bright chrome | 626 Satin chrome | 626AM Satin chrome with antimicrobial |

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