



AD-302

FIPS 201-2 APL Listed
networked hardwired
electronic lock



Overview

AD Series electronic locks from Schlage® are designed to be modular and provide more options to choose from, more functionality in the lock and greater compatibility with existing systems. Its patented 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.

AD-302 locks feature a multi-technology card and keypad reader (FMK) that is fully PIV and PIV-I capable for dual authentication to an external server. The open architecture software design of AD Series facilitates integration making AD-302 a desirable part of a Physical Access Control Software (PACS) provider's offering. Any completed PACS integrations that are tested and approved under HSPD-12 guidelines can then be applied in U.S. Federal Agency Buildings.

Factory orderable options include choices of 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 into one design that includes the electrified lock, credential reader, request-to-exit sensor, request-to-enter sensor, and both door position and tamper switches. The AD-302 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.

Features and benefits

- PIV and PIV-I compatible
- Open architecture platform
- AD-302 locks can wire directly into the panel of integrated RS-485 access control software partners
- 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
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, Industry Canada (IC), FL12400¹, FL1591¹, FL13013¹ and FL14482¹

¹ Applies to cylindrical and mortise chassis only.

CYBERSECURITY

Learn about Allegion's commitment

AD-302 electronic lock specifications

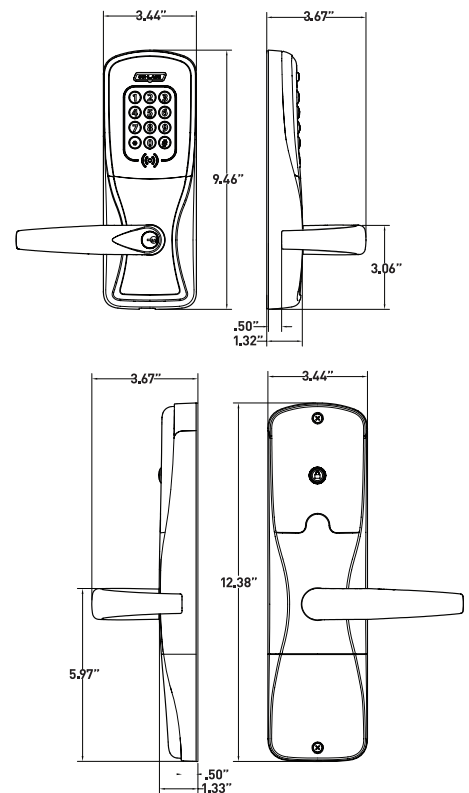
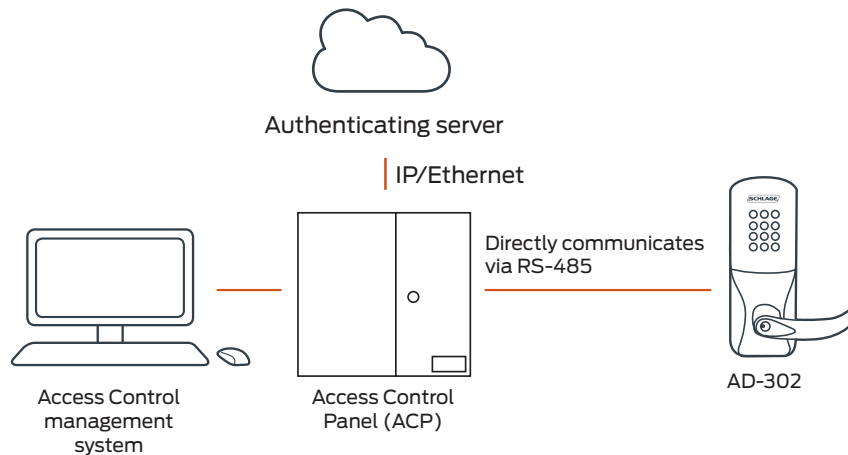
| | |
|--------------------------------|---|
| Credential verification time | < 2 seconds in FASC-N mode: card certificate validated by the ACP only 2-4 seconds in full authentication mode: card certificate validated by 3rd party server |
| Data rate | RS-485 : 9.6 kbps |
| Visual/audible communications | Tri-colored LED's and audible indicators (field configurable) |
| System interface | RS-485 directly |
| Power supply | 12 VDC or 24 VDC |
| Voltage range | 4 VDC to 26 VDC |
| Max current requirement | Up to 250 mA |
| Cable specifications for power | 18AWG, 2 conductor (Belden 8760 or equivalent) |
| Cable distance for power | AD-302 to power supply: up to 1000 ft (303 m) |
| Cable specifications for data | 24AWG, 2 or 4 conductor shielded (Belden 9841, 9842 or equivalent) |
| Cabling distance for data | AD-302 to ACP, RS-485: up to 4000 ft (1219 m) |
| Operating temperature | -31° to 151°F (-35° to 66°C) |
| Operating humidity | 0 - 100% non-condensing |
| Certifications | ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10 C, FCC Part 15, ADA |
| Accessories | SUS-A Cable with SUS Android mobile app. Also supported by existing Handheld Devices (HHD) |

Functions

- Classroom/storeroom¹
- Office¹
- Privacy
- Apartment

Available status signals

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



¹ Classroom/storeroom and office function not available with mortise deadbolt option.

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 | | |
| 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 in a Conventional cylinder with two patented keys standard. Additional options available including SFIC, FSIC and competitor brands. See lever and cylinder compatibility data sheet (010432). | | |

FMK multi-technology reader specification

| | |
|--------------------------|---|
| Credential technologies | Proximity (125 kHz) and Smart (13.56 MHz) |
| Standards | Standards ISO standard 15693 and ISO 14443 |
| Maximum read range | Proximity: up to 1.25" Smart: up to 0.75" |
| Proximity credential use | Compatibility: Schlage, HID®, GE/CASI ProxLite®, AWID® and LenelProx® Schlage credential style formats: Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, PVC adhesive disk |
| Smart credential use | Secure sector compatibility: Schlage MIFARE Classic®, Schlage MIFARE Plus®, Schlage MIFARE® DESFire®; PIV and PIV-I ¹ CSN only compatibility: HID iCLASS®, HID iCLASS SE®, Inside Contactless Pico Tag®, MIFARE Classic/Plus/DESFire, 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, PVC adhesive patch |
| Certifications/standards | FCC, Industry Canada (IC), UL 294 Listed, ISO standard 15693, and ISO standard 14443 |
| Style/layout | 12 button, 3x4 matrix backlit keypad |

¹ 75 bit output format default. Configurable to other output formats.

AD Series FMK reader module

The AD Series is an ideal solution for applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-2 compliance. It is possible to upgrade existing, non-compliant AD Series locks to the new standard as follows:

- Field upgrade AD Series locks not currently set up for FIPS 201-2 by replacing the reader module with a FIPS 201-2 PIV-I capable FMK reader (sold separately)
- Field upgrade AD Series FIPS 201-1 compliant locks with an FMK reader manufactured after August 2016 by uploading FIPS 201-2 compatible firmware (AD.A.121 or higher)

Both types of upgrades should only be performed by a PACS provider who has tested and been approved under HSPD-12 for AD Series integration.

AD Series exit trim:

AD-302 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



PIV-I capable

- The FMK reader is required on AD Series locks to achieve FIPS 201-2 compliance; It supports proximity cards and is PIV-I capable using 13.56 MHz smart card technologies

 KEYPAD

Ordering information

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

AD-302-CY-70-FMK-SPA-626-P6-S123-RH-13-049-10-025-1 3/4

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

Selections correspond with the numbers above

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

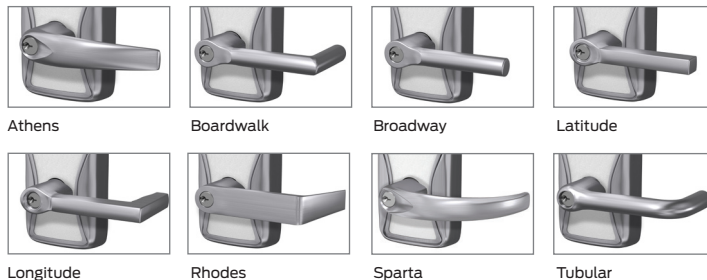
| | |
|--|--|
| 3 | Chassis |
| CY | Cylindrical |
| MS | Mortise |
| MD | Mortise deadbolt |
| 993R | Exit trim – Rim/CVC/CVR |
| 993S | Exit trim – SVR |
| 993M | Exit trim – mortise |
| 993DT | Non-functioning dummy trim for exit |
| 4 | Function |
| 70 | Classroom/storeroom |
| 50 | Office |
| 40 | Privacy |
| 60 | Apartment |
| Lock function capabilities are determined by users access control system | |
| 5 | Reader |
| FMK | FIPS 201-2 compatible multi-technology + keypad (125 kHz and 13.56 MHz) |
| 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 |
| P6 | Schlage 6-pin Conventional key-in-lever cylinder |
| See price book for other SFIC, FSIC and less cores options available. Compatible with Schlage®, Sargent®, Corbin Russwin, Medeco® and Yale®. | |
| 9 | Keyway type |
| S123 | Everest 29 |
| See price book for other available keyway options including restricted keyways in Primus XP high security cylinders and master keying | |
| 10 | Handing |
| RH | Right handed |
| LH | Left handed |
| Field reversible | |

| | |
|--|--|
| 11 | Backset and latch or armor front |
| Cylindrical | |
| 13-247 | 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 | |
| 12 | 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 | |
| 13 | Door thickness |
| 1 3/4" | |
| Other thicknesses available between 1 3/8" and 2 3/4" | |
| See price book for detail | |

Lever styles

Conventional cylinders shown, SFIC and FSIC also available.



About Allegion

Allegion (NYSE: ALLE) is a global pioneer in seamless access, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion secures people and assets with a range of solutions for homes, businesses, schools and institutions. Allegion had \$2.7 billion in revenue in 2020, and its security products are sold around the world. For more, visit www.allegion.com

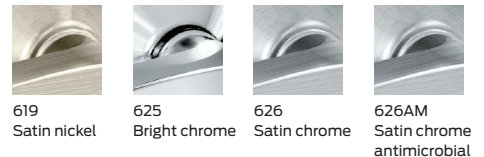
KRYPTONITE ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN

Finishes

Warm tone finishes



Cool tone finishes



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