

AD-300 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 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 can change 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 -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 your access control software partner for details on the integration of specific features.



Networked Locking Solutions AD-300 Hardwired

Features and Benefits

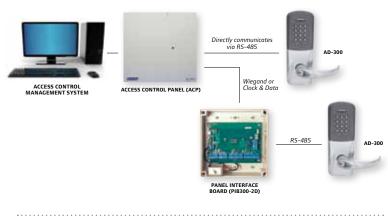
- Open Architecture platform
- Panel interface options ensure seamless communication with your system
- Real-time communication between access control system and lock
- Field configurable Fail Safe/Fail Secure and other capabilities per code
- Available in cylindrical, mortise, mortise with deadbolt
 and exit trim
- Compatible with major brands of master key systems
- A wide selection of credential readers and networking options to choose from
- AD-Series with multi-technology readers are NFC compatible
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS



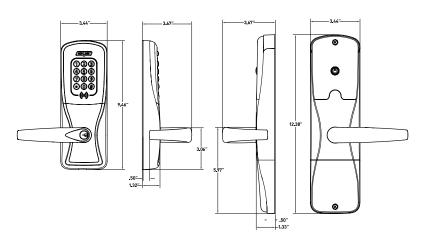
| AD-300 Electronic Lock Specifications | | | | | |
|---------------------------------------|---|--|--|--|--|
| Credential Verification Time | < 1 second | | | | |
| Data Rate | RS-485 : 9.6 kbps | | | | |
| Visual/Audible Communications | Tri-colored LED's & audible indicators (field configurable) | | | | |
| System Interface | Wiegand or Clock & Data via PIB300, or 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-300 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-300 to PIB300 or ACP, RS-485: up to 4000 ft (1219 m) | | | | |
| Operating Temperature | -31° to 151°F (-35° to 66°C) | | | | |
| Operating Humidity | 0 - 100% condensing | | | | |
| Certifications | ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10 C, FCC Part 15, ADA, RoHS | | | | |
| Accessories | Panel Interface Board (PIB300), Handheld Device (HHD), Dry Contact Relay Board (RLBD) may be required for supervised inputs (Wiegand systems) | | | | |

† Software indicates lock/unlock status based on sequence of events, but cannot validate mechanical clutch positions unless monitored on RS-485* connection

System Configuration



Dimensions



Functions

- Classroom/Storeroom
- Office*
- Privacy*
- Apartment*

Note: BHMA/ANSI functions such as these can be implemented by the Software when Door Position, Deadbolt Position and/or Interior Push button are monitored. Consult Software provider for specific capabilities. Classroom/ Storeroom and Office function not available with Mortise Deadbolt option.

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*

* 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.

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.

| PIB300-2D Specifications | | | | |
|---|--|--|--|--|
| | PIB300 to Lock, RS-485: up to 4000' | | | |
| Communication Range | PIB300 to ACP, Wiegand or Clock & Data: up to 500' | | | |
| Visual/Audible | 13 LEDs for Status Indicators | | | |
| System Interface | Wiegand or Clock & Data | | | |
| Voltage Range | 9.5 VDC to 26 VDC | | | |
| Power Supply | 12 VDC or 24 VDC | | | |
| Max Current Requirements | Up to 250 mA | | | |
| Operating Temperature | -31° to 151°F (-35° to 66°C) | | | |
| Dimensions (HWD) | 7.1″ x 7.1″ x 3.0″ (18.0 cm x 18.0 cm x 7.6 cm) | | | |
| Weight | 1.25 lb (.57 kg) | | | |
| Cable Specifications (PIB300 to ACP) | 22AWG, 8 Conductor Shielded (Alpha 1298C or equivalent) | | | |
| Certifications | NEMA 1, 4, 4X, 6; UL 294, FCC Part 15; RoHS | | | |

| Mechanical Specifications | | | | | |
|---------------------------|--|---|--|--|--|
| Chassis | Cylindrical (Based on Schlage ND-Series) | Mortise (Based on Schlage L-Series) | | | |
| Handing | Handed to Order, Field Reversible | | | | |
| ANSI Standard | Meets or exceeds A156.25 and A156.2 Series 4000, Grade 1 strength and operational requirements | Meets or exceeds A156.25 and A156.13 Series 1000, Grade 1 operational and security | | | |
| Door Thickness | 1-3/4" standard, 1-3/8" to 2-3/4" optional (available in 1/8" increments) | | | | |
| Backset | 2-3/4" standard, 2-3/8", 3-3/4" and 5" optional | 2-3/4" only | | | |
| Latch Bolt | 1/2" throw security latch standard, 3/4" throw optional | 3/4" throw with anti-friction tongue standard, 1" throw deadbolt on Mortise Deadbolt option* | | | |
| Levers | Pressure cast zinc, plated to match finish symbols | Steel, plated to match finish symbols | | | |
| Strike | ANSI curved lip strike 1-1/4" x 4-7/8" x 1-3/16" lip to center standard, optional strikes, lip lengths and ANSI strike box available | ANSI curved lip strike 1-1/4" x 4-7/8" x 1-3/16" lip to center with dust box standard, optional strikes lip lengths available | | | |
| Cylinder & Keys | Schlage 6-pin Everest C123 keyway cylinder with two patented keys standard Additional options available including Standard, SFIC, FSIC and competitor brands | | | | |

**Classroom/Storeroom and Office options not available with deadbolt.

| 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 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**† | | | |
| 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 Schlage Credentials | 125 kHz Clamshell (SXF7410), 125 kHz ISO Card (SXF7510), 125 kHz ISO Card w/Magnetic Stripe (SXF7510MS) | | | |
| 13.56 MHz Compatible Schlage Credentials | 13.56 MHz MIFARE Clamshell (SXF9420), 13.56 MHz MIFARE ISO Printable (SXF9520, SXF9551, SXF9558), 13.56 MHz MIFARE Key Tag (SXF9651), 13.56 MHz MIFARE PVC Patch (SXF9751), aptiQ [™] Smart Cards using MIFARE DESFire [™] EV1 (SXF9000 Series) | | | |
| Certifications/Standards | FCC, RSS210, UL 294, Listed, ISO Standard 15693, and ISO Standard 14443 | | | |
| Style/Layout | Option for 12 button, 3x4 matrix backlit keypad | | | |

Notes:

** FIPS 201-1 Compliant Option Available: The AD-Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-1 Compliance. Specific components are required, please see the AD-401 data sheet or AD-301 data sheet for complete details.

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

Available AD-Series Reader Modules











(Insertion)



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 Ingersoll Rand. 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

Benefits of AD-Series Multi-Technology Readers:

- Reads multiple brands of both proximity (125 kHz) and smart (13.56 MHz) technologies with single device
- AD-Series multi-technology readers are NFC compatible
- Allows end user to migrate to more secure credentials over time and as budgets permit

Additional Readers

Magnetic Stripe

- · Now available with choice of Insertion or Swipe style readers
- Triple Track Reader (1, 2 or 3), field configurable
- · ABA, ISO76XX Standard
- · Reader can be cleaned without removing lock from door
- Option for 12 button, 3x4 matrix backlit keypad

Keypad

- Backlit keypad
- 12 button, 3x4 matrix



• Keypad

 Multi-Technology • M Proximity Smart Card • P • S + KEYPAD

| ulti-Technology | • |
|-------------------------|---|
| Proximity Smart Card | |

Magnetic Stripe (Insertion) + KEYPAD





 Magnetic Stripe (Swipe) (Swipe) + KEYPAD

Magnetic Stripe

Ordering Information

Available through one of our GSA Schedule 84 approved distributors; BAA Options Available

| AD-300-CY-70-MG-SPA-626-PD-C123-RH-13-049-10-025-1-3/4 | | | | | | | | | | | | |
|--|-------|---------|----------|--------|-------------|--------|----------------|-------------|---------|--------------------|--------|-------------------|
| Series | Class | Chassis | Function | Reader | Lever Style | Finish | Lever Cylinder | Keying Type | Handing | Backset & 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 Chas | ssis |
|------------------------|--|
| CY MS | Cylindrical Mortise |
| MD | Mortise Deadbolt |
| 993R | Exit Trim – Rim/CVR/CVC |
| 9935 | Exit Trim – SVR |
| 993M | Exit Trim – Mortise |
| 993DT | Non-Functioning Dummy Trim for Exit |
| | |
| 4 Fund | |
| 70 | Classroom/Storeroom |
| 50 40 | Office Privacy |
| 40 60 | Apartment |
| | tion capabilities are determined by users |
| access con | trol system |
| 5 Read | der |
| KP | Keypad |
| | кеурай |
| MG | Magnetic Stripe (Insertion) |
| MG MGK | 51 |
| | Magnetic Stripe (Insertion) Magnetic Stripe + Keypad |
| MGK | Magnetic Stripe (Insertion) Magnetic Stripe + Keypad (Insertion) |
| MGK MS MSK | Magnetic Stripe (Insertion) Magnetic Stripe + Keypad (Insertion) Magnetic Stripe (Swipe) Magnetic Stripe + Keypad (Swipe) |
| MGK | Magnetic Stripe (Insertion) Magnetic Stripe + Keypad (Insertion) Magnetic Stripe (Swipe) Magnetic Stripe + Keypad (Swipe) Multi-Technology |
| MGK MS MSK MT | Magnetic Stripe (Insertion) Magnetic Stripe + Keypad (Insertion) Magnetic Stripe (Swipe) Magnetic Stripe + Keypad (Swipe) Multi-Technology (125 kHz and 13.56 MHz) |
| MGK MS MSK | Magnetic Stripe (Insertion) Magnetic Stripe + Keypad (Insertion) Magnetic Stripe (Swipe) Magnetic Stripe + Keypad (Swipe) Multi-Technology |
| MGK MS MSK MT | Magnetic Stripe (Insertion) Magnetic Stripe + Keypad (Insertion) Magnetic Stripe (Swipe) Magnetic Stripe + Keypad (Swipe) Multi-Technology (125 kHz and 13.56 MHz) Multi-Technology + Keypad |

| 6 Leve | r |
|-------------|--|
| SPA | Sparta |
| RHO | Rhodes |
| ATH | Athens |
| TLR | Tubular |
| Available w | vith knurled surface |
| 7 Finis | h |
| 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 Leve | r Cylinder Type |
| PD | Schlage 6-pin Full Cylinder |
| options avo | ook for other SFIC, FSIC and Less Cores ailable. Compatible with Schlage, |

Sargent, Corbin, Medeco and Yale

9 Keyway Type C123 Everest

See price book for other available keyway options including master keying

10 Handing **Right Handed** RH LH Left Handed Field reversible 11 Backset & 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 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

Standard cylinders shown, SFIC and FSIC also available



Sparta



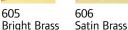
Rhodes



Athens



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625

Bright

Warm tone finishes

612 Satin Bronze

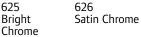
Cool tone finishes



605

619 Satin Nickel





626AM Satin Chrome with Antimicrobial





Aged Bronze





