AD-300
Hardwired Electronic Lock

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.

Features

- 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

Ingersoll Rand
Security Technologies

AD-300 Electronic Lock Specifications	
Credential Verification Time	< 1 second
Data Rate	RS485 : 9.6 kbps
Visual/Audible Communications	Tri-colored LED's & audible indicators (field configurable)
System Interface	Wiegand or Clock & Data via PIB300, or RS485 directly
Power Supply	12 VDC or 24 VDC
Voltage Range	4 VDC to 26 VDC
Max Current Requirement	Up to 250 mA
Cable Specifications	24AWG, 3 Conductor Shielded (Belden 9842, 9841 or equivalent)
Cabling Distance	RS485 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 Grade 1, UL294*, UL10 C, FCC Part 15, ADA, RoHS
Accessories	Panel Interface Board (PIB300), Handheld Device (HHD)

*Pre-launch datasheet. UL294 certification pending. Certification will be achieved prior to shipment.

Functions

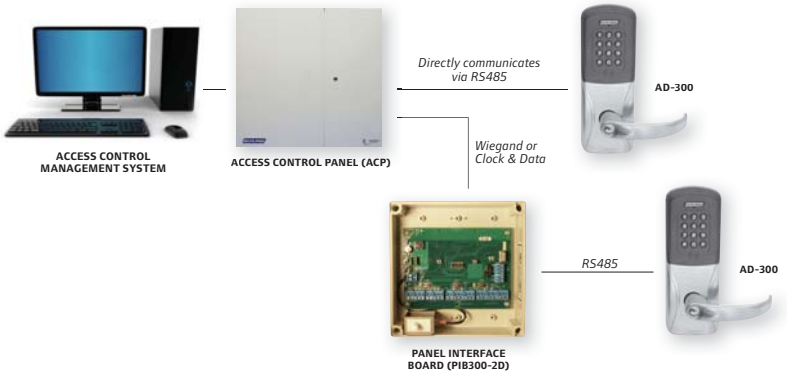
- *Classroom/Storeroom*
- *Office*
- *Privacy*
- *Apartment*

Note: Office function not available with Mortise Deadbolt option. To ensure safety all functions always allow for free egress.

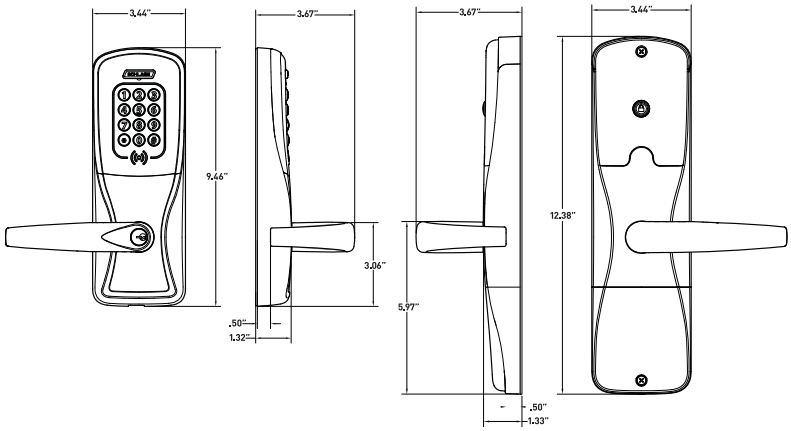
Standard Status Signals

- *Lock/Unlock Status (Clutch Position)*
- *Request-to-Exit Switch*
- *Door Position Switch*
- *Mechanical Key Override*
- *Deadbolt Position*
- *Interior Cover Tamper Guard*
- *Communication Status*
- *Request-to-Enter*

System Configuration



Dimensions



Panel Interface Board (PIB300-2D)

If the system requires Wiegand or Clock & Data protocol (rather than a direct RS485 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	
Communication Range	RS485: up to 4000', PIB300 to Lock; Wiegand or Clock & Data: up to 500'; PIB to ACP
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)
Data Rate	RS485 : 9.6 kbps
Certifications	NEMA 1, 4, 4X, 6; UL294, 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	6-pin Everest C123 keyway cylinder with two patented keys standard Additional options available including SFIC, FSIC and competitor brands	

AD-Series Exit Trim

The AD-Series Exit Trim (installed with a universal mounting plate) is compatible with Von Duprin 98/99 exit devices.

Reader Specifications

	Multi-Technology	Smart Card	Proximity
Frequency or Track	125 kHz proximity and 13.56 MHz smart card	13.56 MHz	125 kHz
Standards	ISO 15693 and ISO 14443		None
Maximum Read Range	up to 0.75″		
Compatibility (secure sector)	Schlage, XceedID ISO-X, MIFARE, ISO-X Lite, my-d, FIPS 201/PIV II, DESFire 8-EV1		
Compatibility (serial number only)	MIFARE, DESFire, iCLASS, Inside Pictotag, ST Micro, TI Tagit		Schlage, XceedID, HID, GE/CASI ProxLite and AWID
Compatible Schlage Credentials	Reads same credentials as AD-Series smart card and proximity readers	13.56 MHz Clamshell (SXF9420 & SXF9440), 13.56 MHz Smart card ISOX or MIFARE Glossy White (SXF9520, SXF9540, SXF9551, SXF9558 & SXF9574), 13.56 MHz Key Tag (SXF9640 & SXF9651), 13.56 MHz PVC Patch (SXF9740, SXF9751 & SXF97), Schlage EV1	125 kHz Clamshell Proximity (SXF7410), 125 kHz ISO Card Proximity (SXF7510), 125 kHz ISO Card w/ Magnetic Stripe (SXF7510MS)
Certifications/ Standards	FCC, Canadian FCC, UL294 Listed*, ISO 15693 and ISO 14443	FCC, Canadian FCC, UL294 Listed*	FCC, Canadian FCC, UL294 Listed*
Style/Layout	Option for 12-button, 3x4 matrix backlit keypad		

*Pre-launch datasheet. UL294 certification pending. Certification will be achieved prior to shipment.

Additional Readers

Magnetic Stripe

- Triple Track Reader (1, 2 or 3), field configurable
- Illuminated Card Slot
- 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

Available AD-Series Reader Modules

- Proximity
- Smart Card
- Multi-Technology
- + KEYPAD

- Proximity
- Smart Card
- Multi-Technology

- Magnetic Stripe
- + KEYPAD

- Magnetic Stripe

- Keypad

Ordering Information

AD	300	CY	70	MG	SPA	626	PD	C123	RH	13-047	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.

3 Chassis

CY	Cylindrical
MS	Mortise
MD	Mortise Deadbolt
993R	Exit Trim – Rim/CVR
993S	Exit Trim – SVR
993M	Exit Trim – Mortise

4 Function

70	Classroom/Storeroom
50	Office
40	Privacy
60	Apartment

5 Reader

KP	Keypad
MG	Magnetic Stripe
MGK	Magnetic Stripe + Keypad
PR	Proximity
PRK	Proximity + Keypad
SM	Smart Card
SMK	Smart Card + Keypad
MT	Multi-Technology
MTK	Multi-Technology + Keypad

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

8 Lever Cylinder Type

PD	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

C123	Everest

See price book for other available keyway options including master keying

10 Handing

RH	Right Handed
LH	Left Handed

Field reversible

11 Backset and Latch

13-047 2-3/4″ Backset, Deadlatch, square corner, 1-1/8″ x 2-1/4″

See price book for other backset and latch options

12 Strike

Cylindrical

10-025 1-3/16 Lip, ANSI, no box, 1-1/4″ x 4-7/8″

See price book for other available cylindrical strikes

Mortise Options

10-072 1-3/16″ Lip, 1-1/4″ x 4-7/8″ square corner, box

See price book for other available mortise 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

Tubular

Warm tone finishes

605
Bright Brass

606
Satin Brass

612
Satin Bronze

643e
Aged Bronze

Cool tone finishes

619
Satin Nickel

625
Bright Chrome

626
Satin Chrome

626AM
Satin Chrome with Antimicrobial

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