



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 changed 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 request-to-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.

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 deadbolt and exit trim
- Compatible with major brands of master key systems
- A wide selection of credential readers and networking options to choose from
- Allows use of smart/mobile device as credential with aptiQmobile™ (multitechnology reader only)¹
- FIPS 201-1 compliant when applied with the FIPS multi-technology plus keypad reader module (FMK)
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC), FL12400², FL1591², FL13013² and FL14482²

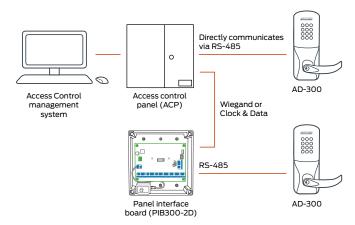
Refer to aptiQmobile.com for list of certified devices compatible with aptiQmobile credentials

² Applies to cylindrical and mortise chassis only

AD-300 electronic lock specifications Credential verification time < 1 second¹ Data rate RS-485: 9.6 kbps Tri-colored LED's and audible indicators (field configurable) Visual/audible communications System interface Wiegand or Clock & Data via PIB300 or RS-485 directly 12 VDC or 24 VDC Power supply 4 VDC to 26 VDC Voltage range 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% non-condensing ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10 C, Certifications FCC Part 15, ADA, RoHS Panel Interface Board (PIB300), Handheld Device (HHD), Dry Accessories Contact Relay Board (RLBD) may be required for supervised inputs (Wiegand systems)

PIB300-2D	specifications
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Communication range	PIB300 to lock, RS-485: up to 4000 ft (1219 m) PIB300 to ACP, Wiegand or Clock & Data: up to 500 ft (152 m)
Visual/audible	13 LEDs for status indicators
System interface	Wiegand or Clock & Data
Power supply	12 VDC or 24 VDC
Voltage range	9.5 VDC to 26 VDC
Max current requirement	Up to 250 mA
Operating temperature	-31° to 151°F (-35° to 66°C)
Dimensions (H x W x D)	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



- Lock requires less than 100 msec, response time does not include latency time of ACP.
- ² Classroom/storeroom and office function not available with mortise deadbolt option.
- 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.
- 4 Not available on exit trim.
- Software indicates lock/unlock status based on sequence of events, but cannot validate mechanical clutch position unless monitored on RS-485 connection.

Functions

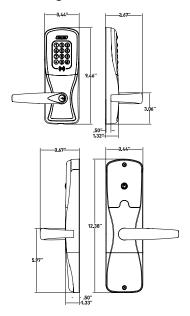
- Classroom/storeroom²
- Office^{2, 3, 4}
- Privacy^{3, 4}
- Apartment^{3,4}

Available status signals

- Lock/unlock status⁵
- Request-to-exit
- Door position
- Mechanical key override³
- Deadbolt position³
- Interior cover tamper guard³
- Communication status³
- Interior push button³
- Request-to-enter³

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.



Mechanical specifications Chassis Cylindrical Mortise Exit trim Handing Handed to order, field reversible ANSI standard A156.25 A156.25 A156.25 A156.2 Series 4000 A156.13 Series 1000 A156.3 (Meets or exceeds) Grade 1 Grade 1 Door thickness $1^{3}/4$ " standard, $1^{3}/8$ " to $2^{3}/4$ " optional (available in 1/8" increments) Standard: 23/4" 2 3/4" only Defined by Backset Optional: 23/8", 33/4", 5" exit device Standard: 1/2" throw Standard: 3/4" throw Provided by Latch bolt Optional: 3/4" throw Optional: 1" throw on exit device mortise deadbolt For lever base metals see lever and cylinder compatibility data sheet (010432) Levers Standard: 13/16" lip, ANSI, 11/4" x 47/8" Provided by Strike Additional configurations available exit device Optional: please see price book Schlage 6-pin Everest 29 S123 keyway cylinder with two patented keys standard Cylinder Additional options available including Standard, SFIC, FSIC and competitor brands. and keys See lever and cylinder compatibility data sheet (010432)

AD Series exit trim:

AD-300 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

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 proximity credential use	Compatibility: Schlage, XceedID, HID, GE/CASI ProxLite, AWID, and LenelProx. XceedID credential style formats: Clamshell, ISO card, ISO card with magnetic stripe, keyfob and PVC disk (7000 Series)	
13.56 MHz smart credential use	Secure sector compatibility: Schlage MIFARE® aptiQ™ MIFARE® Classic, XceedID, aptiQ MIFARE DESFire™ EVI with PACSA, aptiQmobile™; PIV and PIV-1¹·² CSN only compatibility: DESFire, HID iClass®, Inside Contactless Pico Tag® MIFARE, MIFARE DESFire EVI, ST Microelectronics®, Texas Instruments Tag-It®, Phillips I-Code® aptiQ credential style formats: Clamshell, ISO card, ISO card with magnetic stripe, keyfob, mobile, PVC disk (8000 Series) PVC patch (9000 Series) and wearable wristbands	
Certifications/standards	FCC, Industry Canada (IC), UL 294 Listed, ISO standard 15693, and ISO standard 14443	
Style/layout	Option for 12 button, 3x4 matrix backlit keypad	

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.
- Refer to aptiOmobile.com for list of certified devices compatible with aptiOmobile credentials.

Benefits of AD Series multi-technology readers:

- Reads multiple brands of both proximity (125 kHz) and smart (13.56 MHz) technologies with single reader
- Allows use of smart/mobile device as credential with aptiQmobile technology3
- Allows facility to migrate to more secure credential technologies over time and as budgets permit

Additional readers

Magnetic stripe

- Available with choice of insertion or swipe style readers
- Triple track reader (1, 2 or 3), field configurable
- ABA, ISO76XX standard

Keypad

- Backlit kevpad
- 12 button, 3x4 matrix

Available **AD Series** reader modules



Multi-technology

- Proximity
- Smart card
- Mobile ■ KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity Smart card
- Mobile



Magnetic stripe (insertion)

■ KEYPAD



(insertion)



Magnetic stripe (swipe) KEYPAD



(swipe)



Magnetic stripe

Ordering information

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

AD-300-CY-70-MG-SPA-626-PD-S123-RH-13-049-10-025-13/4

Series	Class	Chassis	Function	Reader	Lever	Finish	Lever	Keying type	Handing	Backset and latch	Strike	Door
1	2	3	4	5	б	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	on capabilities are determined by users rrol system
5	Reader
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access control system		
5	Reader	
KP	Keypad	
MG	Magnetic stripe (insertion)	
MGK	Magnetic stripe + keypad (insertion)	
MS	Magnetic stripe (swipe)	
MSK	Magnetic stripe + keypad (swipe)	
MT	Multi-technology	
	(125kHz and 13.56 MHz)	
MTK	Multi-technology + keypad	
	(125kHz and 13.56 MHz)	
FMK	FIPS 201-1 compliant	
	multi-technology + keypad	
	(125 kHz and 13.56 MHz)	
DT	Dummy trim	

6	Lever
SPA	Sparta
RHO	Rhodes
ATH	Athens
TLR	Tubular
Available w	rith 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
	ook for other SFIC, FSIC and less cores

9	Keyway type
Corbin F	Russwin, Medeco® and Yale®.
options	available. Compatible with Schlage®, Sargent®,
See pric	e book for other SFIC, FSIC and less cores

S123	Everest 29
See price be	ook for other available keyway options including
master keyi	ng

10	Handing
RH	Right handed
LH	Left handed
Field rev	ersible
11	Backset and latch or armor front

Cylindrical

13-049 23/4" backset, deadlatch, square corner, 1 1/8" x 2 1/4"

Mortise 09-663 Armor front, 11/4" wide, square corner

See price book for mortise deadbolt and other backset and latch options or armor front options

12 Strike

Cylindrical

10-025 13/16" lip, ANSI, no box,

11/4" x 47/8"

Mortise

10-072 13/16" lip, 11/4" x 47/8"

square corner, box

See price book for other available strikes

13 Door thickness

13/4"

Other thicknesses available between

13/8" and 23/4"

See price book for detail

Lever styles

ard cylinders shown, SFIC and FSIC also available.





Rhodes Sparta





Athens Tubular

Finishes



Bright brass



Satin brass





Satin bronze



Aged bronze





Cool tone finishes

Satin nickel



Bright chrome Satin chrome





Satin chrome with antimicrobial

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About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA, Interflex, LCN, Schlage, Simons Voss 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.



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