



AD-400

Networked wireless 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 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.

Factory orderable options include choices of credential readers, chassis type, network configurations, locking functions, power options, 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 guard and more.

The AD-400 wireless networked lock gives you many of the key benefits of a hardwired access control system — without the wires. This allows you to secure doors that were traditionally difficult to run wires to in the past—and increase the security throughout your facility.

The AD-400 has a number of built-in features, that are configurable in the field and a long list of items that can be monitored by access control software. Please consult one of our Physical Access Control Software (PACS) providers for details on the integration of specific features.



Features and benefits

- Open architecture platform
- Panel interface options ensure seamless communication with your system
- Non-invasive installations for historic buildings and sensitive areas
- Secure encrypted data transmission
- Unique communication protocols that won't interfere with other wireless networks
- Patent-pending wireless feature enables centralized lockdown in less than 10 seconds while still optimizing battery life up to 2 years
- Wireless accessories available for remote, gate, elevator and portable (mustering) applications
- Compatible with NFC mobile credentials on iOS and Android platforms¹
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, Industry Canada (IC), FL12400², FL1591², FL13013² and FL14482²

1 Check with PACS provider for specific support of Mobile Student IDs in Apple Wallet and Google Pay

² Applies to cylindrical and mortise chassis only

CYBERSECURITY

Learn about Allegion's commitment

Reliable communications

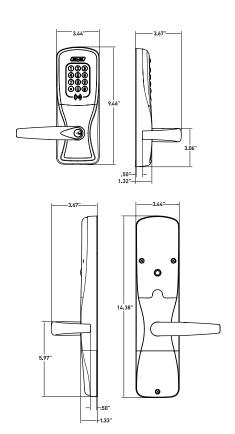
Secure and reliable wireless communication with the Panel Interface Module (PIM) is accomplished using 900 MHz frequency. 900 MHz band enables longer transmission ranges because signal propagation with longer wavelengths travel a greater distance and better penetrate typical building construction – allowing for simplified system design.

Wake-Up on Radio

This feature enables implementation of wireless locks in applications where centralized lockdown or unlock is required. 'Wake Up on Radio' utilizes patent-pending technology to enable real-time activation at a remote battery-powered wireless lock. The technology is configurable from 10 to 1 second increments. When Wake-Up on Radio is used in critical applications Dynamic Channel Switching should also be enabled.

Panel Interface Module (PIM400)

The PIM400 (sold separately) is required for communication between the AD-400 wireless lock and the access control panel, and can support up to 16 locks depending on your access control system.



Schlage · AD-400

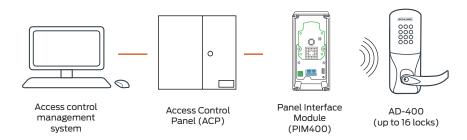
Communication range Up to 200 ft with obstructions (normal building construction) up to 1000 ft clear line of sight RF interference avoidance Configurable dynamic channel switching Data rate RF: 40 kbps Visual/audible Tri-colored LED's and audible indicators (field configurable) communications System interface RS-485, Wiegand, or Clock & Data via PIM400 to host 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 Operating temperature/ interior Operating humidity 0 - 100% non-condensing Certifications ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10 C, FCC Part 15, ADA	AD-400 electronic lo	<u> </u>			
Transmission/encryption AES-128 bit key Credential verification time <1 second¹ Wake-Up on Radio Responds to lock/unlock command from host in less than 10 seconds in battery powered applications (per field configuration to 1000 ft clear line of sight RF interference avoidance Configurable dynamic channel switching Data rate RF: 40 kbps Visual/audible Tri-colored LED's and audible indicators (field configurable) communications System interface RS-485, Wiegand, or Clock & Data via PIM400 to host 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 Operating temperature/ interior Operating humidity 0 - 100% non-condensing Certifications ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10 C, FCC Part 15, ADA Accessories Pale Interface Module (PIM400), SUS-A Cable used with SL Android mobile app, remote antennas for PIM400 to extend	Modulation	900 MHz spread spectrum, direct sequence, 10 channels			
Credential verification time < 1 second¹ Wake-Up on Radio Responds to lock/unlock command from host in less than 10 seconds in battery powered applications (per field configuration to 200 ft with obstructions (normal building construction) up to 1000 ft clear line of sight RF interference avoidance Configurable dynamic channel switching Data rate RF: 40 kbps Visual/audible Tri-colored LED's and audible indicators (field configurable) communications System interface RS-485, Wiegand, or Clock & Data via PIM400 to host 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 Operating temperature/ 32° to 151°F (-35° to 66°C) exterior Operating humidity 0 -100% non-condensing Certifications ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10 C, FCC Part 15, ADA Accessories Panel Interface Module (PIM400), SUS-A Cable used with SL Android mobile app, remote antennas for PIM400 to extend	Frequency range	902-928 MHz			
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FCC Part 15, ADA Accessories Panel Interface Module (PIM400), SUS-A Cable used with SL Android mobile app, remote antennas for PIM400 to extend	Operating humidity	0 - 100% non-condensing			
Android mobile app, remote antennas for PIM400 to extend	Certifications				
supervised inputs (Wiegand systems)	Accessories	range, Dry Contact Relay Board (RLBD) may be required for			

Functions

- Classroom/storeroom²
- Office^{2, 3}
- Privacy³
- Apartment³

Available status signals

- Lock/unlock status⁴
- Request-to-exit
- Door position
- Mechanical key override³
- Deadbolt position³
- Interior push button³
- Interior cover tamper guard³
- Battery status
- Communication status³
- Request-to-enter³



- 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.
- ³ Consult your Physical Access Control Software (PACS) provider for specific scope of support. Interior pushbutton, mechanical key override and deadbolt position are only available when linked via PIM400-485.
- Goftware indicates lock/unlock status based on sequence of events, but cannot validate mechanical clutch position unless monitored on RS-485 connection.

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 deadb	Provided by exit device polt			
Levers	Pressure cast zinc, plated					
Strike						
Cylinder and keys	Schlage® 6-pin Everest 29 S123 keyway Conventional cylinder with two patented keys standard. Additional options available including SFIC, FSIC and competitor brands. See lever and cylinder compatibility data sheet (010432)					

Standard multi-tech	nology reader specification
Credential technologies	Proximity (125 kHz), Smart (13.56 MHz) and Near Field Communication (NFC)
Standards	ISO 15693 ISO 14443
Read range	Proximity: up to 1.25" Smart: up to .75" NFC mobile: mobile device dependent
Proximity credential compatibility	Compatibility: Schlage, ISONAS™, 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 compatibility	Secure sector compatibility: Schlage MIFARE Classic®, Schlage MIFARE Plus®, Schlage MIFARE® DESFire®, PIV and PIV-I ^{1,2} 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 patch
Mobile credential compatibility	NFC-enabled mobile devices ³
Certifications/standards	FCC, Industry Canada (IC), UL 294 Listed, ISO standard 15693 and

FIPS 201-2 integration ready option available: The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-2 compliance when installed as part of a tested and approved integrated solution. Please see the AD-402 data sheet or AD-302 data sheet for complete details.

12 button, 3x4 matrix backlit keypad

ISO standard 14443

- ² 75 bit output format default. Configurable to other output formats.
- ³ Check with PACS provider for specific support of Mobile Student IDs in Apple Wallet and Google Pay.

Available AD Series reader modules



Options





- Proximity
 - Smart Smart
- NFC mobile NFC mobile























Magnetic stripe (insertion)

AD Series exit trim:

AD-400 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

Benefits of AD Series multi-technology readers:

- Reads multiple brands of both proximity (125 kHz) and smart (13.56 MHz) technologies with single reader
- Compatible with NFC mobile credentials on iOS and Android platforms³
- Allows facility to migrate to more secure credential technologies over time and as budgets permit

Additional readers

Si option with HID® support

Supports:

- Secure application area of HID iCLASS®, iCLASS SE®. Seos® smart credentials
- iCLASS Standard Key and Elite Keys
- HID NFC mobile credentials
- All Schlage MIFARE® and NFC mobile credentials

Does not support:

- Proximity
- Bluetooth® (BLE) mobile credentials

Magnetic stripe

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

Kevpad

- Backlit keypad
- 12 button, 3x4 matrix





■ KEYPAD







Magnetic stripe (swipe)

Keypad

Ordering information

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

AD-400-CY-70-MG-SPA-626-P6-S123-RH-4B-13-049-10-025-1 3/4

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

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				
9935	Exit trim – SVR				
993M	Exit trim – mortise				
993DT	Non-functioning dummy				
	trim for exit				
4	Function				
70	Classroom/storeroom				
50	Office				
40	Privacy				
60	50 Apartment				
Lock function capabilities are determined by users					
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
	(125 kHz, 13.56 MHz, NFC)
MTK	Multi-technology + keypad
	(125 kHz, 13.56 MHz, NFC)
FMK	FIPS 201-1 compliant
	multi-technology + keypad
	(125 kHz and 13.56 MHz)
Si	HID support

626	Satin chrome			
7	Finish			
Available with tactile warning options				
TLR	Tubular			
SPA	Sparta			
RHO	Rhodes			
LON	Longitude			
LAT	Latitude			
BRW	Broadway			
BRK	Boardwalk			
ATH	Athens			
	beenie comigoration 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

Schlage 6-pin Conventional keyin-lever cylinder See price book for other SFIC, FSIC and less cylinder options available. Compatible with Schlage®, Sargent®,

S123	Everest 29			
9 Keyway type				
Corbin Russwin, Medeco® and Yale®.				

See price book for other available keyway options including restricted keyways in Primus XP high security cylinders and master keving

10	Handing	
RH	Right handed	
LH	Left handed	
Field revers	sible	
11	Battery	



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

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

11/4" x 47/8"

Mortise

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

square corner, box

See price book for other available strikes

14 Door thickness 13/4"

Other thicknesses available between

13/8" and 23/4"

See price book for detail

Finishes



Bright brass



625





Aged bronze

Cool tone finishes



Satin nickel

619



Bright chrome



Satin chrome

626AM Satin chrome with

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Lever Lever styles

Conventional cylinders shown, SFIC and FSIC also available

HID support + keypad

Dummy trim



SiK

DT





Broadway



P6





Rhodes





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



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