ALLEGION

SCHLAGE

PACOM

Integrated security solution

with AD-400 wireless and AD-300 hardwired locks and GMS Software by PACOM

Overview

The AD Series electronic locking platform is designed to be open and flexible. With its open architecture, the AD-Series can be seamlessly integrated into the Pacom access control system with 1057, 1058, 8001 and 8002 Series of controllers.

Schlage AD Series electronic locks combine the components typically found around the door; such as the reader, door position switch and the request-to-exit switch into one device; which simplifies installation and saves money. And since they are designed to be modular, Schage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

Schlage AD Series are available in hardwired and wireless configurations. For new construction, the AD-300 hardwired locks provide all of the benefits of a traditional access control solution. For existing facilities, the AD-400 wireless locks provide real time access control with GMS Software without having to run wires direct to each opening.
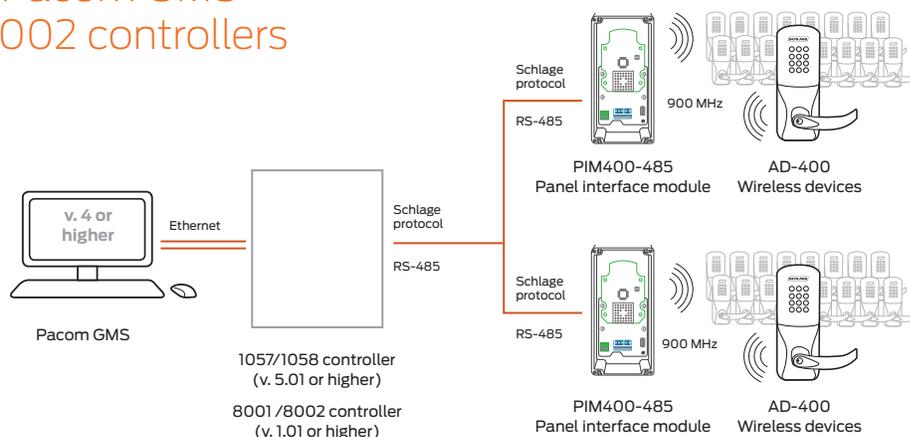
The AD Series can be customized with seven (7) different credential reader options including keypad, magnetic stripe (insert and swipe) and multi-technology which reads both 125 kHz proximity and 13.56 MHz smart cards and Card + PIN credentials. Designed to be modular, readers can easily be upgraded in the future to meet your changing credential needs.

System Capabilities
Summary

- AD-400 wireless applications:
  - 1057, 8001 and 8002 Controllers support up to 64 AD-400 locks
  - 1058 Controller supports up to 16 AD-400 locks
  - 900 MHz communication between AD-400 and PIM400 for secure, AES-128 bit encrypted transmission
  - Patent-pending wireless lockdown feature (10 seconds or less) in use with PIM400-TD2, preserves up to 2 year battery life

- AD-300 hardwired applications:
  - 1057, 8001 and 8002 controllers support up to 64 AD-300 locks
  - 1058 Controller supports up to 16 AD-300 locks
  - Field configurable fail safe/fail secure

- Additional details on readers supported and chassis types available on page 3 and 4

- Wireless accessories available for remote, gate, elevator, and portable (mustering) applications

- AD-Series meets ANSI/BHMA A156.25, ANSI/BHMA Grade 1 requirements and is UL 294 Listed
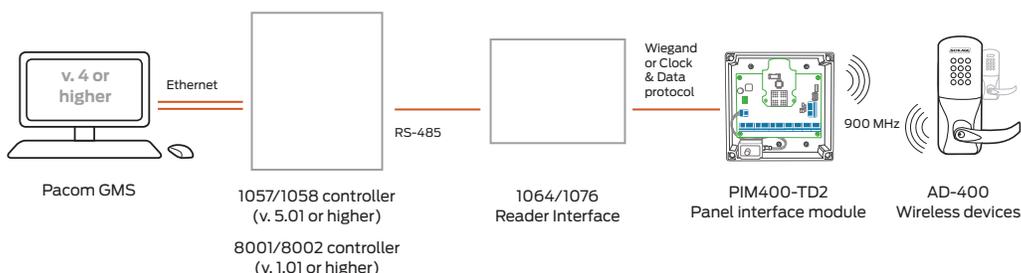
AD-400 via RS-485 with Pacom GMS and 1057, 1058 or 8001/8002 controllers

- Pacom 1057/1058/8001/8002 controllers support up to 4 PIMs per RS-485 port
- Pacom supports up to 16 devices per PIM. Up to 64 devices total on 1057, 8001/8002
- 1057 controller has up to 6 RS-485 ports depending on configuration
- 1058 controller has up to 2 RS-485 ports depending on configuration
- 8001 & 8002 controllers have up to 5 RS-485 ports depending on configuration
- Wireless range up to 200' in typical building construction

v. 4 or higher

Ethernet

Pacom GMS

Schlage protocol
RS-485

1057/1058 controller
(v. 5.01 or higher)

8001 /8002 controller
(v. 1.01 or higher)

Schlage protocol
RS-485

900 MHz

PIM400-485
Panel interface module

AD-400
Wireless devices

Schlage protocol
RS-485

900 MHz

PIM400-485
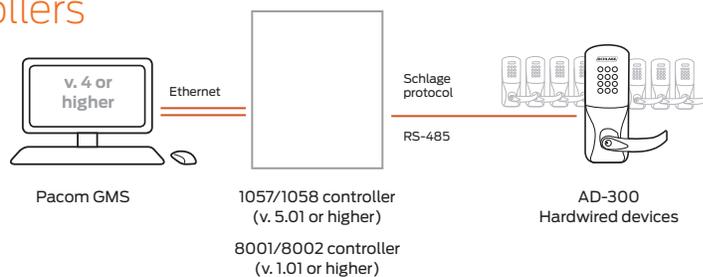Panel interface module

AD-400
Wireless devices

AD-400 via Wiegand with Pacom GMS and 1057, 1058, 8001 or 8002 controllers

- Each PIM400-TD2 supports up to 2 AD-400 devices
- 1064 Reader Interface supports 1 PIM400-TD2
- 1076 Reader Interface supports 2 PIM400-TD2
- Wireless range up to 200' in typical building construction

v. 4 or higher

Ethernet

Pacom GMS

RS-485

1057/1058 controller
(v. 5.01 or higher)

8001/8002 controller
(v. 1.01 or higher)

1064/1076
Reader Interface

Wiegand or Clock & Data protocol

900 MHz

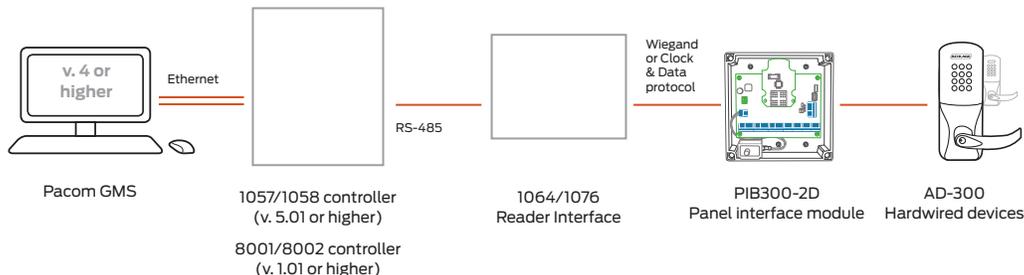PIM400-TD2
Panel interface module

AD-400
Wireless devices

AD-300 via RS-485 with Pacom GMS and 1057, 1058, 8001 or 8002 controllers

- Pacom 1057/1058/8001/8002 controllers support up to 8 AD-300 locks per RS-485 port
- 1057 controller has up to 6 RS-485 ports depending on configuration
- 1058 controller has up to 2 RS-485 ports depending on configuration
- 8001/8002 controller has up to 5 RS-485 ports depending on configuration

v. 4 or higher

Ethernet

Pacom GMS

Schlage protocol
RS-485

1057/1058 controller
(v. 5.01 or higher)

8001/8002 controller
(v. 1.01 or higher)

AD-300
Hardwired devices

AD-300 via Wiegand with Pacom GMS and 1057, 1058 or 8001/8002 controllers

- PIB300-2D supports up to 2 AD-300 hardwired locks
- 1064 Reader Interface supports 1 PIB300-2D
- 1076 Reader Interface supports 2 PIB300-2D

v. 4 or higher

Ethernet

Pacom GMS

RS-485

1057/1058 controller
(v. 5.01 or higher)

8001/8002 controller
(v. 1.01 or higher)

1064/1076
Reader Interface

Wiegand or Clock & Data protocol

PIB300-2D
Panel interface module

AD-300
Hardwired devices

Note:

Please refer to AD-300/PIB300-2D (ES-5532), AD-400 (ES-5531), PIM400-485 (ES-5536), and PIM400-TD2 (ES-5535) data sheets for complete AD Series specifications.

For additional information contact Pacom: 1.866.867.2266 or www.pacom.com

System capabilities:

	AD-400 PIM400-485	AD-400 PIM400-TD2	AD-300 Direct RS485	AD-300 PIB300-2D
Features				
Maximum number of readers supported by controller/PIM/PIB	64	16	64	64
Maximum number of readers per PIM400/PIB300	16	16	N/A	2
Maximum number of PIM400s and/or AD-300s per RS-485 port	Up to 8	N/A	up to 8	N/A
Access control decision made by controller or by lock database	Controller	Controller	Controller	Controller
Remote Linking capability via Host	No	No	N/A	N/A
Readers - see supported card formats below				
Keypad only	Yes	Yes	Yes	Yes
Magnetic stripe card	Yes	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes	Yes
PIV & PIV-I card compatible[1]	Yes	Yes	Yes	Yes
Card + PIN	Yes	Yes	Yes	Yes
Status monitors				
Request to exit	Yes	Yes	Yes	Yes
Door position	Yes	Yes	Yes	Yes
Mechanical key override	Yes	Yes	Yes	Yes
Request to enter	Yes	No	Yes	No
Low battery status	Yes	Yes	N/A	N/A
Communication status: RF/RS-485	Yes/Yes	Yes/Yes	Yes	Yes
Remote lockdown/unlock	Yes (per heartbeat)	Yes (<10 sec)[2]	Yes	Yes
Deadbolt position	No	No	No	No
Interior push button	No	No	No	No
Lock functions				
Classroom/storeroom	Yes	Yes	Yes	Yes

Please contact Pacom for additional details on integrated features and credentials supported.

Supported card formats

Proximity cards (125 kHz):
- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart cards (13.56 MHz):
- aptiQ™ MIFARE Classic
- aptiQ™ MIFARE DESFire™ EV1
- PIV and PIV-I compatible

Smart cards (13.56 MHz) - reads card serial number only:
- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire™ EV1

1   Solution is able to read PIV & PIV-I credentials, however is not FIPS 201 compliant

2   Wake-up on Radio over PIM400-TD2 on up to 2 doors requires configuration at PIM via HHD

Available AD Series reader modules

Multi-technology
- Proximity
- Smart card
- ➕ KEYPAD

FIPS 201-1 compliant
option available (FMK)

Multi-technology
- Proximity
- Smart card

Magnetic stripe (insertion)
- ➕ KEYPAD

Magnetic stripe (insertion)

Magnetic stripe (swipe)
- ➕ KEYPAD

Magnetic stripe (swipe)

Keypad

Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock
(AD-300/400-MS)

Cylindrical Lock
(AD-300/400-CY)

Exit Device Trim
(AD-300/400-993)

The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.

Sparta

Rhodes

Athens

Tubular

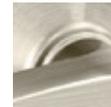## Finishes

Warm tone finishes
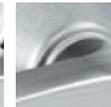
605
Bright brass

606
Satin brass
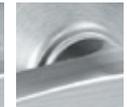
612
Satin bronze

643e
Aged bronze

Cool tone finishes

619
Satin nickel

625
Bright chrome

626
Satin chrome

626AM
Satin chrome with antimicrobial

About Allegion

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