Wireless Access Solutions
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## CONTACT INFORMATION

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**Customer Service**

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Fax: 866-322-1233

**Technical Support**

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Fax: 866-322-1233

To contact a local Ingersoll Rand Security Technologies Consultant in your area go to:
http://securitytechnologies.ingersollrand.com/ssc.asp
Wireless Access Solutions Overview

Schlage® wireless access solutions provide the benefits of on-line access control without the wires. Unlike traditional wired openings that take days to install, Schlage wireless access solutions install in a fraction of the time. In some cases up to 90% faster! This also translates into tremendous savings, where many installations see savings of up to 35% or more. High-secure spread spectrum transmissions even encode signals using 128-bit keys. To provide unparalleled value with the least amount of disruption, refer to the illustration below to select the Schlage wireless access solutions for your next installation.

Compatible with Every Brand of Access Control
**Panel Interface Module (PIM)**

The Panel Interface Module is needed to enable all traditional access control panels to interface with Schlage wireless access solutions. The PIM seamlessly integrates with most EAC panels via Wiegand or magnetic stripe communications. The PIM operates in the 902MHz to 928MHz license free bands, which eliminates wiring from the panel to remote wireless access solutions.

- Encoded spread spectrum transmissions
- Connections for credential data, door status, request-to-exit and trouble
- Monitors battery condition, reader tamper and RF communications in real time
- Five visual indicators
- Indoor range up to 200 feet (60 meters) in typical building construction, same floor
- Outdoor range up to 1000 feet (300 meters) line of sight or 4000 feet (1200 meters) with optional gain antennae

**Other Required Items**

- 12VDC power supply, usually from access control panel

**Panel Interface Module Expander Board**

- Expander board allows Panel Interface Module to control two additional wireless access point modules

**Order – PIM-TD2**

- Controls two access point modules

**Order – PIM-TD4**

- Controls four access point modules

**Order – PIM-EXP**

- Expander Board for PIM-TD2
  - Controls two additional access point modules

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**WA Series Cylindrical and Mortise Modular Lock**

The WA Series Modular Lock combines all elements required at the door for a complete access control solution into one fully integrated package. The card reader, electronic lock, request-to-exit sensor, door position switch, battery pack and RF communications are included. Request-to-enter optional; installs in about an hour.

- Select HID, Indala, AWID proximity; iCLASS/MIFARE® smart card; magnetic stripe (reads ABA track 1, 2 and 3)
- 12VDC battery pack with up to 4 years of battery life
- Range of up to 200 feet (60 meters) in typical building construction, same floor
- Performs equally well on wood and metal doors
- Reader operating temperature of –35°C (-31°F) to +66°C (+150°F)
- Weather-resistant for outdoor applications
- Maintains UL-10C 3-hour fire rating for fire doors
- UL294 certified

**WA Series Cylindrical or Mortise Available**

See Configuration Guide, pages 8 and 9 for Ordering Information

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**Wireless Exit Kit (WA993)**

The WA993 Exit Kit adds full access control capabilities to new and existing exit bars without wiring to the door or around the door. Maintains UL-10C for fire doors. Installs in two hours.

- No need for exit bar electrification kits, high current power supplies, transfer hinges
- No need to core or re-certify door
- No need to run wiring

The WA993 combines the reader module, trim faceplate with electronic lock and request-to-exit sensor, door position switch, transceiver module and battery pack all in one kit.

- Compatible with Von Duprin 98/99 Series Exit Device
- 12VDC battery pack with life up to 4 years or 60,000 credential transactions
- Range of up to 200 feet (60 meters) in typical building construction, same floor
- Performs equally well on wood and metal doors
- Reader operating temperature of –35°C (-31°F) to +66°C (+150°F)
- Weather-resistant for outdoor applications
- UL294 certified

**Other Required Items**

- Exit Device

See Configuration Guide, page 10 for Ordering Information
Wireless Reader Interface-Indoor (WRI-IN-12VDC)

Eliminates wiring from access-controlled doors to panels – local power needed

The locally-powered WRI-IN-12VDC includes an RF transceiver and an access control interface board. The request-to-exit sensor and door position switch terminals are on board.

- Supports all reader technologies with Wiegand (data1/data0) or magnetic stripe (clock & data) outputs up to 255 bits
- Easy-to-install access control in hard-to-wire locations
- 1 Form C output relay (6A@24VDC or 120VAC and 3A@240VAC, resistive)
- Range of up to 200 feet (60 meters) in typical building construction, same floor
- Operating temperature of -35°C (-31°F) to +66°C (+150°F)

Other Required Items
- Requires 12VDC@300mA peak, regulated power supply
- External Reader
- Door Position Switch
- Electric strike or mag lock
- Request-to-Exit switch or sensor

Wireless Status Monitor (WSM)

Reports sensor, such as door position

The Wireless Status Monitor reports any condition change that creates a contact closure or opening. Requires no wiring to the panel from the monitored device.

- 12VDC battery pack with up to four years of battery life
- Range of up to 200 feet (60 meters) in typical building construction, same floor, 1000 feet (300 meters) line of sight
- Operating temperature of 0°C (+32°F) to +66°C (+150°F)

Other Required Items
- Contacts to be monitored

Wireless Portable Reader (WPR2)

Instantaneous access control anywhere

The WPR is used for muster, perimeter expansion, bus load registration, and temporary check points. There is no waiting for installation.

- No database downloads
- Maintains real-time communications with host access system
- Simple operation – a GREEN LED means VALID credential or access granted.
  A RED LED means INVALID credential or access denial
- Transactions recorded by host system in real-time
- Select HID, Indala, AWID proximity; iCLASS/MIFARE® smart card; magnetic stripe (reads ABA track 1, 2 and 3). All versions are weather resistant.
- 12VDC battery pack with up to 4 years of battery life
- Range of up to 600 feet (180 meters) line of sight
- Operating temperature of 0°C (+32°F) to +66°C (+150°F)
Wireless Elevator Kit (ECK-200)

**Eliminates traveling cables**
The wireless elevator kit eliminates traveling cables to and from the elevator, significantly reducing installation time, cost and disruption. Includes wireless reader interface, panel interface module, and indoor remote antenna and power supply.

- 2 Form C output relays.
  Strike relay output: 6A@24VDC or 120VAC and 3A@240VAC, resistive.
  Auxiliary Relay output: 2A@28VDC or 0.5A@120VAC, resistive.
- Inputs for 2 readers, such as left side or right side
- Weather-tight enclosure (NEMA 4 and 4x rated)
- Range of up to 1000 feet (300 meters) line of sight
- Supports all reader technologies with Wiegand (data1/data0) or magnetic stripe (clock & data) outputs up to 255 bits
- Operating temperature of −35°C (−31°F) to +66°C (150°F)

**Other Required Items**
12VDC@300mA peak, regulated power supply – external reader(s)

Wireless Gate Kit (GCK-101)

**Eliminates trenching**
The wireless gate kit eliminates trenching to and from the gate, significantly reducing installation time, cost and disruption. Includes wireless reader interface, panel interface module and outdoor remote antenna and power supply.

- 2 Form C output relays.
  Strike relay output: 6A@24VDC or 120VAC and 3A@240VAC, resistive.
  Auxiliary Relay output: 2A@28VDC or 0.5A@120VAC, resistive.
- Inputs for 2 readers, such as high for trucks and low for cars. Not for in and out
- Weather-tight enclosure (NEMA 4 and 4x rated)
- Range of up to 1000 feet (300 meters) line of sight
- Supports all reader technologies with Wiegand (data1/data0) or magnetic stripe (clock & data) outputs up to 255 bits
- Operating temperature of −35°C (−31°F) to +66°C (150°F)

**Other Required Items**
12VDC@300mA peak, regulated power supply – external reader(s)

Wireless Reader Interface – Outdoor (WRI-OTD-12VDC)

The Wireless Reader Interface is frequently used for elevator and gate control, eliminating trenching for gates and traveling cables for elevators. Because they have two relays, WRI-OTD’s are sometimes used for ADA-compliant entrances, as well.

**WRI-OTD Includes:**
- 2 Form C output relays
  Strike relay output: 6A@24VDC or 120VAC and 3A@240VAC, resistive
  Auxiliary Relay output: 2A@28VDC or 0.5A@120VAC, resistive
- Inputs for 2 parallel readers
- Weather-tight enclosure (NEMA 4 and 4x rated)
- Range of up to 1000 (300 meters) feet line of sight
- Compatible with optional gain antennae for range up to 4000 feet (900 meters) line of sight
- Supports all reader technologies with Wiegand (data1/data0) or magnetic stripe (clock & data) outputs up to 255 bits
- Operating temperature of −35°C (−31°F) to +66°C (150°F)

**Other Required Items**
12VDC@300mA peak, regulated power supply – External reader(s)
Repeater Kit

*Increases RF range of wireless access systems*

Use when RF signals are blocked by metal, wire mesh walls or when going over/around buildings or hills.

- Includes Outdoor Wireless Reader Interface and Panel Interface Module
- Repeaters can be used to double RF range or compensate for RF obstructions, such as walls with wire mesh inside
- Supports all reader technologies with Wiegand (data1/data0) or mag stripe (clock & data) outputs up to 255 bits
- Operating temperature of –35°C (-31°F) to +66°C (+150°F)

*Other Required Items*
- 12 VDC@300mA peak, regulated power supply

Pre-Installation Test Kit

*RF Tester provides on-site verification of RF coverage*

- One person operation
- Quick and easy test process takes only 30 seconds
- Includes half-power guard band to ensure successful installations

Remote Antennae and Accessories

**Remote Antennas**

- Omni-directional, unity gain indoor Remote Antenna Module: Includes Antenna, 15' coax and cable gland. Mounting hardware included; For use with PIMs and WRI-OTD-12VDC. Indoor use only. 
  
  Order – ANT-REM-IN

- Omni-directional, unity gain indoor/outdoor Remote Antenna Module: Includes Antenna, 15' coax, grounding kit and cable gland. Mounting hardware included; For use with PIMs and WRI-OTD-12VDC. Surge protection recommended for outdoor applications. (contact factory for details)
  
  Order – ANT-REM-I/O

- Directional remote flat panel antenna with 6dB of gain: Includes 15' of 50 ohm coax cable with connector. Requires Grounding Kit (MGB+MCA5) if used outdoors. Use mount MPAB3 or MPAB4 for aiming.
  
  Order – ANT-REM-I/O+6DB

**Battery Pack**

- 12VDC battery pack used to power all WA series locksets and exit trim, wireless portable readers and wireless status monitors
  
  Order – K380-001
  Order – K380-012 (12 Pack)

**Antenna Mounts**

- Adjustable wall mount for ANT-REM-I/O+6DB
  
  Order – MPAB3

- Adjustable mast mount for ANT-REM-I/O+6DB
  
  Order – MPAB4

**Grounding Kit**

- Grounding kit for remote antennae. For use with ANT-REM-I/O+6DB. (Not for use with ANT-REM-IN)
  
  Order – MGB+MCA5

**Power Supply**

- 12 VDC power Supply. Used to power PIM-TD2, PIM-TD4, PIM-EXP, WRI-OTD-12VDC, and WRI-IN-12VDC
  
  Order – 593PI-12DC
How to Order WA5200 Series Cylindrical Locksets

Select Model, Function and Credential Reader

CLASSROOM/STOREROOM FUNCTION
CYLINDRICAL SERIES

<table>
<thead>
<tr>
<th>Model</th>
<th>Credential Reader</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA5296-MG3</td>
<td>Magnetic Stripe Card Reader*</td>
</tr>
<tr>
<td>WA5296-PXH</td>
<td>Proximity HID Reader</td>
</tr>
<tr>
<td>WA5296-PXN</td>
<td>Proximity Indala Reader</td>
</tr>
<tr>
<td>WA5296-AWD</td>
<td>Proximity AWID Reader</td>
</tr>
<tr>
<td>WA5296-PXC</td>
<td>iCLASS/MIFARE® Smart Card Reader</td>
</tr>
</tbody>
</table>

* Reads ABA track 1, 2 and 3
Note: UL294 approved for outdoor use

Select Lever/Rose Style

<table>
<thead>
<tr>
<th>17 Sparta (standard)</th>
<th>06 Rhodes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL</td>
<td>Less Lever for KD, LC and LFS key core option</td>
</tr>
<tr>
<td>LS</td>
<td>Less Lever for SFS key core option</td>
</tr>
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</table>

Select Key Core Options

<table>
<thead>
<tr>
<th>KD</th>
<th>Schlage Everest® Core C123 Keyway, with two keys (standard)</th>
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</thead>
<tbody>
<tr>
<td>LC</td>
<td>Less Cylinder</td>
</tr>
<tr>
<td>SFS</td>
<td>Accepts Small Format IC Core, less core</td>
</tr>
<tr>
<td>LFS</td>
<td>Accepts Schlage Full Size IC Core, less core</td>
</tr>
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</table>

Select Finish

<table>
<thead>
<tr>
<th>626</th>
<th>Satin Chrome (standard)</th>
</tr>
</thead>
<tbody>
<tr>
<td>605</td>
<td>Bright Brass</td>
</tr>
<tr>
<td>612</td>
<td>Satin Bronze</td>
</tr>
<tr>
<td>625</td>
<td>Bright Chrome</td>
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<tr>
<td>643e</td>
<td>Aged Bronze</td>
</tr>
</tbody>
</table>

Select Option Features and Door Thickness

SLB | 2-3/4" Backset, 1/2" Latchbolt (standard)
OLB | 2-3/8" Backset, 1/2" Latchbolt
ELB | 2-3/4" Backset, 3/4" Latchbolt
REN | Request to Enter (in reader)
Door Thickness: | 1-3/4" (adjustable from 1-5/8" to 2-1/8")
Note: 1-3/8" - 1-5/8" adapter plate available. Contact factory for details.
**WA5600 Mortise Series Locksets**

How to Order WA5600 Series Mortise Locksets

<table>
<thead>
<tr>
<th>Model</th>
<th>Lever &amp; Rose</th>
<th>Handing</th>
<th>Key Cylinder Option</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA5696-MG3</td>
<td>17A</td>
<td>RH</td>
<td>KD</td>
<td>626</td>
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<tr>
<td>WA5696-PXH</td>
<td>06A</td>
<td>LH</td>
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<td>WA5696-PXN</td>
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<td>RHR</td>
<td>SFS</td>
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<td>WA5696-AWD</td>
<td>06B</td>
<td>LHR</td>
<td>LFS</td>
<td>625</td>
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</table>

**Select Model, Function and Credential**

**CLASSROOM/STOREROOM FUNCTION**

**CYLINDRICAL SERIES**

3/4” LATCHBOLT

**Model:** Credential Reader:

- WA5696-MG3  Magnetic Stripe Card Reader*
- WA5696-PXH  Proximity HID Reader
- WA5696-PXN  Proximity Indala Reader
- WA5696-AWD  Proximity AWID Reader
- WA5696-PXC  iCLASS/MIFARE® Smart Card Reader

* Reads ABA track 1, 2 and 3

Note: UL294 approved for outdoor use

**Select Lever & Rose**

<table>
<thead>
<tr>
<th>Style No.</th>
<th>Lever and rose, 2-1/8” diameter (standard)</th>
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<tbody>
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<td>17A</td>
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<tr>
<td>06A</td>
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<td>06B</td>
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<td>LL</td>
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</table>

**Select Handing**

- RH  Right Hand
- LH  Left Hand
- RHR Right Hand Reverse
- LHR Left Hand Reverse

**Select Key Cylinder Options**

- KD  1-1/4” Schlage Everest® C123 Keyway Cylinder, with two keys (standard)
- LC  Less Cylinder
- SFS Small Format IC Housing, less Core
- LFS Schlage Large Format IC Housing, less Core

**Select Finish**

- 626  Satin Chrome (standard)
- 605  Bright Brass
- 612  Satin Bronze
- 625  Bright Chrome
- 643e Aged Bronze

**Select Option Feature and Door Thickness**

- REN Request to Enter (in reader)
- Door Thickness: 1-3/4” (for 1-1/2” to 1 3/4”)

2’ to 2-3/4” (specify exact door thickness)
How to Order WA993 Exit Trim

**Configuration Chart**

<table>
<thead>
<tr>
<th>Select Model and Credential Reader</th>
<th>WA993-MG</th>
<th>RM</th>
<th>06</th>
<th>RHR</th>
<th>KD</th>
<th>626</th>
<th>REN</th>
<th>1-3/4&quot;</th>
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</tbody>
</table>

**Select Model and Credential Reader**
- **Model:**
  - WA993-MG  Magnetic Stripe Card Reader
  - WA993-PXH  HID Proximity Reader
  - 993-DT  Dummy Trim, rigid lever
  - 993-BE  Passage Trim for positive latching

**Select Device Type**
- **RM**  For Rim, concealed vertical rod or 3 point latching applications
- **SR**  For Surface, vertical rod applications

**Select Lever Style**
- **17**  Sparta (standard)
- **06**  Rhodes

**Select Handing**
- **RHR**  Right Hand Reverse
- **LHR**  Left Hand Reverse

**Select Key Cylinder Options**
- **KD**  1-1/4" Schlage Everest C123 Cylinder, with two keys (standard)
- **LC**  Less Cylinder
- **SFS**  Small Format IC Housing, less core
- **LFS**  Schlage Large Format IC Housing, less core

**Select Finish**
- **626**  Satin Chrome (standard)
- **605**  Bright Brass
- **612**  Satin Bronze
- **625**  Bright Chrome
- **643e**  Aged Bronze

**Select Optional Features and Door Thickness**
- **REN**  Request to Enter
- **TK3**  ABA Track 3 for MG credential model; Track 2 Standard

**Door Thickness:**
- **1-3/4" (standard)**
- **1-3/8" to 2 3/4" (available in 1/8" increments)**

**Retrofits – Von Duprin 98/99 Series Exit Devices (Sold Separately)**
- Rim 98/99
- Surface Vertical Rod - 9827/9927
- Concealed Vertical Rod - 9847/9947/9848/9948
- Three-Point Latching - 9857/9957
Reflective Reader Operation

A Reflective Reader is meant to be battery powered and is designed to save energy. Typical RF card readers are not battery powered, so they can use more energy.

Reflective card readers work like an RF card reader except that they are not fully awake at all times. In order to save energy the Reflective Readers emit an infrared pulse approximately every 100 milliseconds to “see” whether a card is present. If there is no card detected the reader remains in a low energy state, using microamperes instead of milliamperes. If a card is detected, the reader is turned on, the RF field is emitted and the reader then works just like an RF card reader.

The trick to getting good card reads is to present the card perpendicular to the “eye” moving it from far away to close. The card will be read in the normal 2in (5cm) to 4in (10cm) read range. The read time will typically be 300 milliseconds.

Present the card perpendicular to the “eye” moving it from far away to close. Card will be read 2” (5cm) to 4” (10cm) from Reader.

- The lighter colored the card the longer the read range
- Key fob read range is significantly less.

Door Handing From Reader Side:

<table>
<thead>
<tr>
<th>LEFT HAND</th>
<th>RIGHT HAND</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinges on Left</td>
<td>Hinges on Right</td>
</tr>
<tr>
<td>Opens Inward</td>
<td>Opens Inward</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEFT HAND</th>
<th>RIGHT HAND</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVERSE</td>
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<td>Hinges on Left</td>
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<td>Opens Outward</td>
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Ingersoll Rand’s Security Technologies Sector is a leading global provider of products and services that make environments safe, secure and productive. The sector’s market-leading products include electronic and biometric access-control systems; time-and-attendance and personnel scheduling systems; mechanical locks; portable security; door closers, exit devices, architectural hardware, and steel doors and frames; and other technologies and services for global security markets.

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