Overview

The Schlage® AD Series Wireless Portable Reader (WPR400) was designed to extend a facility’s access control to remote locations, at a moment’s notice.

The WPR400 is a portable device that utilizes the same credential reader module as an AD Series electronic lock. The WPR400 can be held by hand or placed in a convenient temporary location to allow for credential verification. Whether it is at a temporary check point or bus load registration, the WPR400 will provide simple, intuitive feedback to the user if the credential being presented is valid or invalid via real time connectivity to the access control system.

The WPR400, as well as other AD-400 locks and devices, communicate via 900 MHz frequency to the Panel Interface Module (PIM400); the PIM400 is required for communication between the AD-400 devices and the access control panel.

The WPR400 was designed to be intuitive to use and easy to set up, which is critical in situations where there is a need for remote credential verification. At power-on and within range, the WPR400 is ready to accept its first credential within moments of powering up and reconnecting to the previously paired PIM400. After the credential has been authenticated by the access control system, the WPR400 provides intuitive LED light feedback.

The WPR400 also has the ability to be configured to cache mode. When enabled, the WPR400 keeps a local database of valid access grants. Upon moving the WPR400 to an offline location away from the PIM400, credentials can be verified for the last 1000 valid users.

Finally, the WPR400 can be manually configured to operate as a wireless portable tester. In Wireless Test Mode, the device can be used to evaluate the location of PIM400s and AD-400 devices within a specific environment, or the existing reader module can remain installed on the WPR400.

Features and benefits

- Fully compatible with Schlage AD Series credential reader modules & Panel Interface Modules
- Reader options include multi-technology (reads both 13.56 MHz smart card and 125 kHz proximity), iClass compatible, magnetic stripe and keypad
- Card reader options available with keypad for multi-factor authentication
- Cache mode option for offline applications
- Field configurable to work as a wireless portable signal tester
- Configured with Schlage hand held device (HHD)
- LED indicators communicate valid (green) and invalid (red) credential status
- Communicates to access control system via PIM400
- Allows use of current aptiQ (Schlage) mobile credential utilizing NFC technology
- FCC Part 15, Industry Canada (IC), RoHS
- Comes with 8 AA off-the-shelf batteries

1 Refer to the Schlage/aptiQ mobile credential compatibility chart for a list of certified devices.
Wireless portable reader specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Modulation / encryption</td>
<td>900 MHz spread spectrum, direct sequence, 10 channels AES-128 bit key</td>
</tr>
<tr>
<td>Frequency range</td>
<td>902-928 MHz</td>
</tr>
<tr>
<td>Credential verification time</td>
<td>&lt; 1 second</td>
</tr>
<tr>
<td>Communication range</td>
<td>Up to 200 ft with obstructions (normal building); up to 1000 ft clear line of sight</td>
</tr>
<tr>
<td>RF interference avoidance</td>
<td>Configurable dynamic channel switching</td>
</tr>
<tr>
<td>Data rate</td>
<td>40 kbps</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0°C (32°F) to 49°C (120°F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>0% to 100% non-condensing</td>
</tr>
<tr>
<td>Battery type</td>
<td>8AA alkaline batteries</td>
</tr>
<tr>
<td>Battery life</td>
<td>Up to 2 years at 40,000 card reads or PIN codes per year</td>
</tr>
<tr>
<td>Dimensions</td>
<td>3.375” x 5.0” x 6.25” (8.57 cm x 12.7 cm x 15.88 cm)</td>
</tr>
<tr>
<td>Weight (less reader)</td>
<td>1.5 lb (0.68 kg)</td>
</tr>
<tr>
<td>Certifications</td>
<td>FCC Part 15, Industry Canada (IC), RoHS</td>
</tr>
<tr>
<td>Additional accessories</td>
<td>Panel Interface Module (PIM400), handheld device (HHD)</td>
</tr>
</tbody>
</table>

Included with WPR400
- AD Series credential reader module specified at ordering

Available AD Series reader modules

Modes of operation
- Reader mode (default)
- Wireless test mode (field configurable)

Reliability
Secure and reliable wireless communication with the Panel Interface Module (PIM400) is accomplished using 900 MHz frequency. 900 MHz band enables longer transmission ranges because signal propagation with longer wavelengths travels a greater distance and better penetrates typical building construction – allowing for simplified system design.

Panel Interface Module (PIM400)
The PIM400 (sold separately) is required for communication between the WPR400/402 and the access control panel, and can support up to 16 AD-400 devices depending on your access control system.

Available AD Series reader modules:  
- Magnetic stripe
- Keypad
- Multi-technology

Additional accessories:  
- Panel Interface Module (PIM400), handheld device (HHD)

About Allegion
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