R100 Surface Mounted Reader with Aperio® Wireless Technology

The Avigilon Access Control Manager (ACM) system utilizes ASSA ABLOY™ Aperio® Wireless Technology to eliminate the cost and inconvenience of wiring in and around the access door. The Aperio solution can support a wide-range of applications, including interior office room doors, server room cabinets and storage lockers, glass, stone or brick entryways, slim aluminum entry doors and more.

The Securitron R100 surface mounted wireless reader offers an elegant way to extend access control to glass, stone, granite and marble entryways. The easy-to-install wireless reader requires no drilling or pulling of wires and adheres quickly to the outside of a glass door. Glass entryways can now integrate robust access control while maintaining a clean, wireless appearance.

The Securitron R100 requires minimal field configuration for quick, easy wireless deployments that eliminate the costs and inconvenience of hardwiring. It also features fully-encrypted AES 128 bit wireless communication between the R100 surface mounted wireless reader and Aperio Hub to ensure data security.

Ideal for glass doors, the R100 easily integrates with the ACM™ system. Connect the Aperio Hub over RS485 to the supported Mercury panel to enable direct communication with the ACM system.

The R100 makes it easy for any company to expand the coverage of their security surveillance system quickly and affordably.

**KEY FEATURES**

- Use existing ID badges (no keys to control or replace, no codes to secure or remember)
- Easy to install and adheres directly to glass surface without any connecting wires
- Provides up to 40,000 cycles of operation with a single lithium battery
- Environmentally sealed electronics provides protection from moisture, heat and cold
- Complements ASSA ABLOY electrified locking devices including electromagnetetic locks, electric strikes, electric locks and electrified exit devices. The electrified locking devices will be hard wired directly to the access control system for power.
Technical Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (H x W x D)</td>
<td>108 mm x 46 mm x 26 mm; 4.25&quot; x 1.8&quot; x 1.0&quot;</td>
</tr>
<tr>
<td>Power</td>
<td>CR2 Li Battery</td>
</tr>
<tr>
<td>Battery life</td>
<td>40,000 cycles of operation with a single lithium battery</td>
</tr>
<tr>
<td>Encryption (wireless communication)</td>
<td>AES 128 bit</td>
</tr>
<tr>
<td>Wireless operating range</td>
<td>15.24 m (50 ft.) max. distance to wireless hub</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-40°C to 50°C (-40°F to 122°F)</td>
</tr>
<tr>
<td>Humidity range</td>
<td>5-95% (non-condensing)</td>
</tr>
<tr>
<td>Status Indicator</td>
<td>Green LED</td>
</tr>
<tr>
<td>Supported credentials</td>
<td>HID 125 kHz proximity or 13.56 MHz iClass</td>
</tr>
</tbody>
</table>

Ordering Information

- **AC-AA-HES-AP-R100-1-SE** R100 iClass SE reader
- **AC-AA-HES-AP-R100-1-PA** R100 Prox reader
- **AC-MER-AH30RN1-RC** ASSA ABLOY - Mercury Aperio Hub 1:8-with Avigilon Enablement SW
- **AC-MER-APD-10-USB** AS-APRD1/PAP1 USB radio dongle Programming Application Tool
- **AC-AA-HUB-EXT-10-ANT** ASSA ABLOY Aperio Hub External Antenna (Omnidirectional)
- **AC-MER-CONT-IDR** Access Platform EP1501 single door controller with PoE support (Mercury EP1501)
- **AC-MER-CONT-64DR** Access Platform EP2500 door controller (Mercury EP2500)

Please contact Avigilon for more ordering information.

Typical Configuration

Avigilon Access Control Manager (ACM)
Professional, enterprise or virtual systems

Local wireless communication eliminates the cost and inconvenience of wiring in and around the door.