



Wireless Access

Model WPR2

Wireless Portable Reader

Overview

The Wireless Portable Reader from Schlage is the right product to use when you simply need to validate an access control credential. Common applications include muster stations, check points, training attendance, special event access, perimeter expansion, and bus loading. A green light indicates a valid credential; a red light represents an invalid or denied credential. Since the WPR communicates in real time to an access control system, there are no databases to download either. Range in a typical building is about 200 feet including obstructions like cinderblock, brick, or plasterboard walls. Outdoors you can expect range of about 600 feet line of sight.

Reliability and Security

Ultra-reliable communications result from several technological advances and incorporated features. 900 MHz Spread Spectrum technology enables high transmission power in a license-free band. Modulo 256 error detection maintain data integrity on each transmission and redundant transmissions ensure communication success. Periodic "heartbeat" signals assure good communications are maintained between the WPR and PIM. Lastly, Dynamic Channel Switching overcomes harsh RF environments by automatically changing channels to avoid potential interference.

Security is also maintained as the WPR utilizes Spread Spectrum transmissions, which are encoded with 128-bit keys, to yield a system that is virtually uncompromisable. In addition, scalability is virtually unlimited as each Wireless Portable Reader has nearly a million addresses to choose from during the linking process.

Universal

Utilizing open standards for compatibility with virtually all access control systems, seamlessly integrate the WPR into new and existing installations.



ORDERING INFORMATION

WPR2-MG – Wireless Portable Reader with Magstripe reader

WPR2-PROX-H – Wireless Portable Reader with HID PROX reader in a weatherproof housing

WPR2-PROX-I – Wireless Portable Reader with Indala PROX reader in a weatherproof housing

WPR2-PXC – Wireless Portable Reader with iClass reader in a weatherproof housing

WPR2-AWD – Wireless Portable Reader with AWID reader in a weatherproof housing

FEATURES

- Wireless communications with Panel Interface Module
- 900 MHz Spread Spectrum RF technology
- Battery-Operated
- Encoded Spread Spectrum transmissions
- Wiegand or Magnetic Stripe interface protocol up to 255 bits
- Flash Memory
- Available with existing card technologies: magnetic stripe, prox by HID, AWID or Indala, iCLASS and MIFARE smart cards.

ADDITIONAL FEATURES

Ultra-Reliable Communications

900 MHz band, with 15 channels to choose from, up to 225 mW of power, Modulo 256 error detection on every transmission and redundant transmissions.

Online Communications (Heartbeat)

Regular communications between the WPR2 and Panel Interface Module (PIM) monitor transmission presence and integrity. Online communications enable the PIM to download information or instructions to the WPR2. The period between heartbeat transmissions is configurable from 15 seconds to 273 hours in 15-second increments.

Auto Addressing / Linking

One of the final steps in the installation process is called "linking". Linking ties a specific WPR to a select PIM and assigns a unique address. There are over 65,000 unique addresses available per channel, providing nearly a million combinations for virtually unlimited scalability.

Assured Communications

A Packet-Error-Rate test is performed during linking, assuring greater than 99.0% of all messages get through.

Long Range

Up to 200 feet in typical building construction, horizontal. Up to 600 feet line-of-sight.

Encoded Transmissions

Each transmission is encoded with 128-bit keys to provide virtually uncompromisable security.

Visual Indicators

Two red and two green LEDs to indicate:

- access grant
- access deny
- no RF communication
- low battery
- linking status to PIM
- WPR2 firmware version

Audible Indicator

Beeper annunciates:

- card swiped/read
- access denied
- low battery
- link successful
- link unsuccessful

BENEFITS

- Set up checkpoints instantaneously
- Long range with ultra-reliable communications
- Handheld, portable
- Virtually impossible to be compromised
- Compatible with ALL existing access control panels
- Easy to upgrade to latest software
- Seamless integration to existing systems

SPECIFICATIONS

Certifications:	FCC Part 15 certified, RSS-210 of Industry Canada approved,
Supply Voltage:	8-AA Battery Pack
Battery Life:	2 years at 40,000 card swipes per year with a 5-minute heartbeat interval; 4 years at 10,000 swipes per year with a 10-minute heartbeat interval.
Frequency Range:	902 to 928 MHz license-free band in U.S. and Canada 15 discrete channels to select among
Transmission Type:	Encoded Direct Sequence Spread Spectrum
Data Rate:	62.5 Kbps max, half duplex
Verification Time:	Less than 0.10 second (not including panel delays)
Enclosure Rating:	Case - NEMA 1, 4, 4X Rated, outdoors Handle - Glass Fiber Reinforced Nylon
Operating Temperature:	-35°C to +66°C
Operating Humidity:	20% RH to 95% RH (non-condensing)
Weight:	1.5 lbs (0.68kg)
Dimensions (Overall):	6.25" x 3.5" x 3.5" 195mm x 89mm x 89mm

Reader Technologies Supported

- Magnetic Stripe
- Prox by HID, AWID or Indala
- iCLASS, MIFARE

Configurable Items from PIM

- heartbeat frequency
- grant access/deny parameter:
- LED on time
- card format conversion
- polarity of trouble signal
- cache memory parameters
- dynamic channel switching (DCS)

