RF Wireless Solutions

Wireless Wiegand Gate/Door Control Modules

RF Wireless Solutions' **Wireless Wiegand Gate Kit** consists of two 900MHz wireless modules: the 900-PRIME and 900-REMOTE, both with external antennas. These modules are capable of transmitting data from Wiegand readers to your access control system and returning lock relay signals when the access panel grants access. This gate kit is truly a cabling replacement for hard-to-wire gates, and it provides extremely stable links with easy installations.

The **Wireless Wiegand Gate Kit** eliminates the costly wiring and trenching that causes so many headaches with remote gate and door installations and installs so easily, you'll wonder why you ever hard wired card readers to begin with. FHSS (Frequency Hopping, Spread Spectrum) 902-928 MHz with 256 bit AES encryption eliminates all worries about signal integrity and potential interference.

RFW-900 Prime....Handheld Tester .... RFW-900 Remote

FEATURES and BENEFITS

1 or 2 Gate/Door Kits Available

Wiring Scheme is Industry Standard

Eliminates Trenching for Data Lines

AES 256 bit Encryption – FIPS 197

Radios are NOT Susceptible to Interference

Range of Up to 2 Miles Outdoors (LOS)

Range of Up to 1500 Ft. Indoors

Antenna Can Be Extended for More Range

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How The RFW-900 Works

The Wireless Gate Kit includes all the modules required to make gate control wireless. The 900-PRIME is to be placed at the host end to control the 900-REMOTE that is placed at the gate control. The two modules then communicate back and forth wirelessly using a standard asynchronous serial data stream.

Wireless Security

Each module comes with built-in 256-bit AES encryption. In addition, it utilizes a channel hopping scheme, FSK (frequency shift keying) making it virtually impossible to decipher. This encryption scheme is FIPS-197 compliant

Wireless Range

Each unit utilizes a 902-928MHz RF module with a selectable output power of either 500mW or 1W, which can yield a range of up to 1,500 ft. (450m) through normal construction. Outdoor range is up to 2 miles, line of sight (Fresnel zone rules apply) Range can be extended to 10 miles (16km) with the addition of a high gain antenna in outdoor line-of-sight applications.

Antenna Separation Distance

In order to comply with RF Exposure requirements, the RF modules *must* be installed and operated in such a way so as to maintain a minimum separation distance between the antennas during normal operation
500mW output – min. 3 ft. separation
1 W output – min. 7 ft. separation

FCC ID: OUR-9XTEND

This device complies with the limits for a Class B digital and intentional radiator, pursuant to Part 15 of FCC rules and RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

RFW-900-SDK/RFW-900-2DK

Communications

The modules provide a seamless, point-to-point or point-to- multi-point wireless transmission using 900MHz technology.

Communications	900MHz RF
Module Frequency	902-928 MHz
Interface Data Rate	9,600 bps
RF Data Rate	115,200 bps
Transmit Power	500mW / 1W

Electrical

Primary Power:	12 / 24VDC, 600mA
Inputs:	900-Remote : 3 (Un) Supervised
	900-Base : 6 Unsupervised

Reader Interface:
900-Remote – Wiegand up to 50 bit
900-Base - 2 Wiegand ports
Outputs
900-R: 4 Form-A selectable
900-Base: 6 Supervised outputs

Other Features

Field Strength Indicator – Visual indicator
Offline Alarm Output -10 Second trouble relay
Transmission Indicator - RX, TX individual
MCU Monitor - Microprocessor state indicator
Offline Mode: 4 offline modes provided
Reader Power: 5V, 12VDC selectable

Mechanical - UL Listed Enclosure

Dimensions: 7 " W x 10 " L x 3 " D

Environmental

Operational Temperature -20 to +120 ºF
Humidity 0 ~ 85% RHNC