

WyRELESS ACCESS

CONTROLS GATES OR ELEVATORS



OUTDOOR ENCLOSURE

Wyreless Access Ensures:

- Trenching is eliminated.
- Traveling cables are eliminated.
- Installers save time.
- Multiple trades are not needed.
- Wiring errors to the panel are non-existent.
- Hassle is reduced.

Ideal for remote gates and elevators

WIRELESS READER INTERFACE

WRI-100-OTD

The WRI-100-OTD provides wireless communications between remote readers and a Panel Interface Module (PIM) which is hardwired to an Electronic Access Control panel. Only one elevator or gate can be controlled with each WRI-100-OTD. Local 12V DC power must be supplied. Now elevators and gates can be controlled using Wyreless Access at a fraction of the cost and time it takes to do it with wires.

Reliability

Ultra-reliable communications result from several technological advances and incorporated features. 900 MHz Spread Spectrum technology enables higher transmission power in a license-free band. Encoded Spread Spectrum transmission data yields a system that is virtually uncompromisable. Each transmission can be randomly repeated 3 times to ensure communication success. Linking is done at half power to ensure full power transmissions during regular communications are successful. A Packet-Error-Rate calculation is done during linking. Error checking is done on every transmission. The WRI-100-OTD and PIM communicate at regular intervals to assure good communications are maintained.

Universal

The WRI-100-OTD wires like a current access point installation. It has:

- 2 Reader Inputs
- 2 Form C Relay Outputs (Strike & Auxiliary)
- Door Position Input
- Request-to-Exit and Request-to-Enter Inputs
- Tamper Input
- RS485 port

WRI-100-OTD Features

- Wireless communications with Panel Interface Module
- 900 MHz Spread Spectrum RF technology
- Encoded Spread Spectrum Transmissions
- Weather-tight enclosure
- Compatible with 2 parallel readers
- Interfaces for all access-controlled door, gate or elevator peripheral devices
- Flash memory

WRI-100-OTD Benefits

- ➔ Installs quickly and reduces time and wiring costs
- ➔ Long range with ultra-reliable communications
- ➔ Virtually impossible to be compromised
- ➔ Suitable for outdoors applications
- ➔ One unit covers both card and keypad data
- ➔ Easy remote installation, compatible with ALL existing access control systems
- ➔ Easy to upgrade to latest software

ADDITIONAL FEATURES

WRI-100-OTD

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 WRI-100-OTD and Panel Interface Module (PIM) monitor transmission presence and integrity. Online communications enable the PIM to download information or instructions to the WRI-100-OTD. The period between heartbeat transmissions is configurable from 1 second to 1 hour in 1-second increments.

Auto Addressing / Linking

WRIs are linked to PIMs by simply pressing the link button, after having put the PIM into link mode.

Assured Communications

Linking is done at half to two-thirds the normal PIM and WRI-100-OTD transmission power to assure that there will be reliable communications during normal operation. Additionally, 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 normal building construction, horizontal.
1000 feet line of sight.

Encoded Transmissions

Each transmission is coded to provide virtually uncompromisable security.

Tamper

The WRI-100-OTD has a Tamper switch.

Visual Indicators

1 power on indicating LED (GRN).
2 LED connections - one red and one green, indicating 8 different conditions: link request, link successful, link unsuccessful, door unlock, door relock, access denied, no communications and firmware version.

Reader Technologies Supported

Magnetic Stripe
Wiegand
PROX by HID or Indala (Indala PROX is special order)
Keypad (Data1, Data0 or Clock & Data)
RS485 (Requires additional software)

Configurable Items from PIM

Heartbeat communication periods
Relock Mechanism - time, door open, door close
Card format conversion
Extended unlock

SPECIFICATIONS

Certifications

FCC Part 15 Certified, RSS-210 of Industry Canada approved, UL294 Listed

Frequency

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

NEMA 1, 4, 4X Rated, outdoors

Contacts

2 Form C relays
2.0A at 110 VAC, 1.0A at 30 VDC

Power Supply

7.5 to 14.0 VDC at 300 ma peak, UL approved

Operating Temperature

-35°C to +66°C

Operating Humidity

20% RH to 95% RH (non-condensing)

Weight

8 lbs (3.63 kg)

Warranty

1 year parts and labor. See warranty for details.

Dimensions

8.7" X 6.94" X 4.5" (220mm X 176mm X 140mm)

ORDER INFORMATION

WRI-100-OTD

Wireless Reader Interface for indoor and outdoor applications, Weather-tight enclosure included with antenna inside.

ANT-REMOTE

For line of sight to gates or in elevator shafts

Remote antenna module for WRI-100-OTD. Includes 15 feet COAX plus connectors.


RECOGNITION SOURCE