# WRR-22 Long-Range 433-MHz Receiver

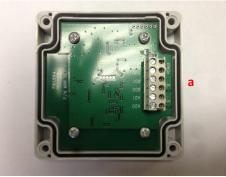
## Ranger Long-Range Identification Quick Start Guide

This Quick Start Guide is intended for experienced installation technicians. It is a basic reference to ensure all connections are properly made.

#### 1.0 Description

Long Range Transmitters and Receivers with an integrated receive antenna comprise Farpointe Data's high frequency, longrange identification solution known as Ranger. Intended for security access control applications, Ranger's wireless communications are based upon a secure, digital, anti-playback routine. The two-channel Ranger Receiver (Channels A & B), model WRR-22, allows Ranger Transmitter data to be sent over two separate Wiegand outputs. Formatting of the Wiegand output is dependent upon the data encoded on each individual Ranger Transmitter.

2.0 Receiver Layout



Legend: a. 6-PIN Terminal Block

### 3.0 Cable Requirements

24 AWG minimum, multi-conductor stranded with an overall foil shield, for example Belden 9540 or similar. Per the SIA's Wiegand specification, maximum cable length is 500-feet (152.4 m).

#### 4.0 Output Formats

Wiegand (industry standard 26-bit Wiegand and custom Wiegand formats).

### 5.0 Grounding

Shield (drain) continuity must run from the Receiver to the access panel. Shield and reader ground must be tied together at the access panel and connect then to an earth ground at one point.

#### 6.0 Power

Power required is 12 VDC nominal at 80 mA. The Receiver may be powered by the access panel. A linear power supply is recommended for best operation.

#### 7.0 Mounting

The Receiver may be mounted indoors or outdoors. The enclosure includes pre-drilled holes in the four corners allowing mounting to a flat surface.

#### 8.0 Read Range

Read range is nominally up to 100 feet (30.5 m). For optimal read range it is important that the Receiver be mounted as far from potential interference sources as possible. These sources may include, but are not limited to, large metal obstructions, as well as magnetic fields and radio transmissions. Note for each installation, read range may vary.

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Part Number: 01671-001

Farpointe Data, Inc. 232 Santa Ana Court Sunnyvale, CA 94085 Tel: 408-731-8700 9.0 External LED Indicator
Refer to the information below for explanation on the Receiver's external LED indicator operation:
Green: Initial power up.
Amber: Normal powered on state.
Flash Green: An activated Transmitter button press has been received and processed.
Flash Red : A non-activated Transmitter button press has been detected.
Off: Receiver is not powered on, or failed to power up successfully.

10.0 6-Pin Terminal Block
Refer to the information below for cabling to the Receiver:
AD0: Button One, Wiegand Data 0, Channel A.
AD1: Button One, Wiegand Data 1, Channel A.
BD0: Button Two, Wiegand Data 0, Channel B.
BD1: Button Two, Wiegand Data 1, Channel B.
GND: Power, 0VDC
+VDC: Power, 12VDC Nominal

Many Farpointe Data Readers carry the following certifications: FCC CE

FCC compliance Statement: This device complies with part 15 of the FCC rules. 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.

Product can be used without license conditions or restrictions in all European Union countries, including Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Spain, Sweden, United Kingdom, as well as other non-EU countries, including Iceland, Norway, and Switzerland.