



QUICK START GUIDE

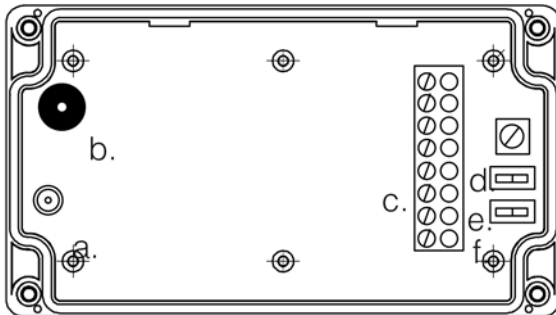
WRR-44 RANGER[®] LONG-RANGE 433-MHz RECEIVER

This Quick Start Guide is intended for experienced installing technicians. It is a basic reference to ensure all connections are properly made. Installation and wiring of systems must be in accordance with the National Electrical Code, ANSI/NFPA 70.

1.0 Introduction

Long Range Transmitters and Receivers with an integrated receive antenna comprise Farpointe Data's high frequency, long-range 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 four-channel Ranger Receiver (Channels A, B, C & D), model WRR-44, allows Ranger Transmitter data to be sent over four 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. Antenna Connector
- b. Audio Beeper
- c. 10-PIN Terminal Block
- d. Read Range Adjustment
- e. Antenna Switch
- f. Beeper Switch

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 120mA. 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 base of the enclosure includes a drill template providing mounting provisions to a wall box (standard North American and European), as well as pre-drilled holes in the four corners allowing mounting to a flat surface.

8.0 Read Range Adjustment

As shipped, the Receiver is set for the maximum read range, which is nominally up to 200 feet (61 m). This may be reduced by adjusting the range pot in the counter-clockwise direction. Additionally, 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.

QUICK START GUIDE

WRR-44 RANGER[®] LONG-RANGE 433-MHz RECEIVER

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 Antenna Switch

As shipped, the Receiver's Antenna Switch is set in the INT position. If a separate antenna is to be used, then the switch should be set in the EXT position.

11.0 Beeper Switch

As shipped, the Receiver's Beeper Switch is set in the ON position. If the installation technician prefers to disable the beeper and External LED Indicator, then the Beeper Switch should be set in the OFF position.

12.0 10-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.

CD0: Button Three, Wiegand Data 0, Channel C.

CD1: Button Three, Wiegand Data 1, Channel C.

DD0: Button Four, Wiegand Data 0, Channel D.

DD1: Button Four, Wiegand Data 1, Channel D.

GND: Power, OVDC (Ground).

+VDC: Power, 12VDC Nominal.

13.0 Connection

Connection must be done in accordance with NFPA 70. Do not connect to a receptacle controlled by a switch.

Many Farpointe Data Readers carry the following certifications:



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, Denmark, Finland, France, Germany, Greece, Ireland, Luxembourg, The Netherlands, Portugal, Spain, Sweden, and the United Kingdom, as well as other non-EU countries, including Iceland, Norway, and Switzerland.

Farpointe Data reserves the right to change specifications without notice.



© 2012-2015 Farpointe Data, Inc., a DORMA Group Company. All rights reserved.
Farpointe Data[®], Pyramid Series Proximity[®], Delta[®], and Ranger[®] are the registered U.S. trademarks of Farpointe Data, Inc. All other trademarks are the property of their respective owners.

www.farpointedata.com

Farpointe Data, Inc.

1376 Borregas Avenue
Sunnyvale, CA 94089-1004 USA
Office: +1-408-731-8700
Fax: +1-408-731-8705
support@farpointedata.com