



QUICK START GUIDE

433-MHz RANGER® LONG-RANGE WIRELESS RADIO TRANSMITTER

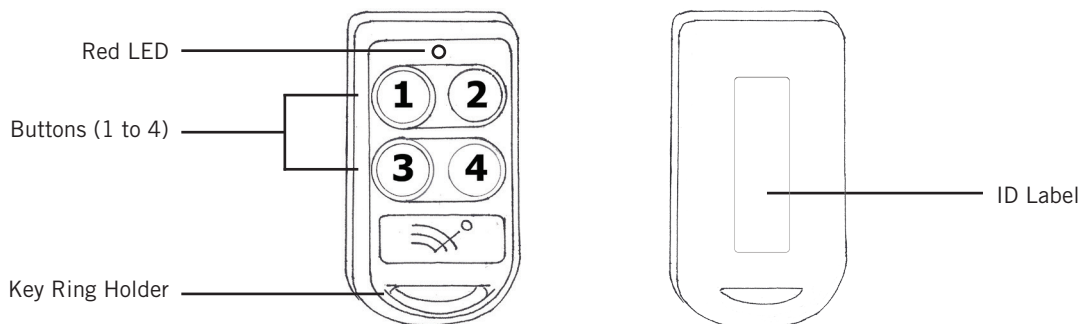
This Quick Start Guide is intended for experienced installation technicians. It is a basic reference to ensure all installations are properly made.

1.0 Description

Wireless Radio Transmitters and Long Range Receivers with an integrated receive antenna comprise Farpointe Data's high frequency, long-range identification solution known as Ranger¹. Intended for security access control applications, Ranger's wireless communication is based upon a secure, digital, anti-playback routine². Ranger Transmitters are available in either a two- or four-button configuration, with each corresponding to its own Wiegand output on the Ranger Receiver. Each Transmitter includes an integrated red LED, used to indicate both positive button press and battery strength.

They are also equipped standard with a potted proximity or contactless smartcard module allowing the Transmitter to also be used as a close-range access credential. Transmitters ship standard with a proximity module compatible with *Pyramid Series Proximity*[®] readers. They can be ordered custom with a proximity module compatible with either HID's or AWID's standard 125-kHz proximity readers, or a contactless smartcard module (such as MIFARE[®] Classic 1K or 4K) compatible with Delta[®] Multi-Technology Contactless Smartcard Readers.

2.0 Transmitter Layout



Model WRT-4+ shown
Size: 2.5 x 1.4 x .52-inches (63.5 x 35.6 x 13.2 mm)

3.0 Output Formats

Transmitters are sequentially coded in either the industry standard 26-bit Wiegand format or custom Wiegand formats, with exact number sequences. As a cross reference the Transmitters' internal ID number is printed on the ID label found on the back of the Transmitter. Specific coding details, including format, facility code, and ID range can be found on the Transmitter shipping box, as well as the shipment's packing list.

4.0 Time-Out

Ranger transmitters make use of a time-out feature to preserve battery life and prevent interference with other transmitters on the field. When a button is held down continuously the transmitter will transmit the code once and shutdown and will power up once the button is released.

5.0 Battery Replacement

Transmitters include a replaceable CR2032, 3.3V, lithium battery¹. The battery should be replaced when a button press does not result in a flash of the LED, reliable read range, and/or an output from the Receiver. To replace the battery, follow the directions below:

1. Using a coin, place it in the gap (2-piece unit) near the key ring holder and twist to pop the transmitter open.
2. Remove the old battery².
3. Insert the new CR2032, 3.3V, lithium battery. Be sure the plus (+) side of the battery is facing up (visible when installed).
4. Snap both pieces together.

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6.0 Range³

Read range between the Transmitter and Receiver depends on the Receiver model being used. Please review the Ranger Receiver datasheet for more information.

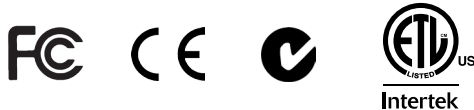
7.0 Troubleshooting

Issue/Possible Cause	Corrective Action
No data received/Transmitter not enrolled	Transmitter must be clicked twice to be learned by the Receiver upon initial Receiver power up
Short Read Range/Receiver Knob	Adjustable knob should be set to the maximum setting (certain models only)
Some Buttons not working/Receiver Capability	Receiver model WRR-42 requires adjusting button selection jumper. Receiver Model WRR-22 only works with the WRT-2+ (2-button Transmitter)
Prox insert not working/Compatibility	Support with HID® and AWID® 125-kHz Proximity Protocol readers must be requested on PO

Should any of the corrective actions mentioned above not improve performance, please contact Farpointe directly.

1. This lithium battery is widely available, and commonly used in electronic devices, including cameras and remote controls.
2. Dispose of the battery according to local requirements. Recycle when possible.
3. For best performance the Transmitter should be used as far from interference sources as possible. These sources may include, but are not limited to, large metal obstructions, such as duct work and appliances, as well as magnetic fields and radio emissions.

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, 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.

Farpointe Data reserves the right to change specifications without notice.

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