# Ranger<sup>™</sup> Long Range Transmitter and Receiver, Models WRT-4 and WRR-42



The Ranger™ Long Range Transmitter, model WRT-4, and Receiver, model WRR-42, comprise Farpointe Data's long range identification solution. Commonly known as 'clickers', Ranger is ideal for long range access control applications, such as opening parking gates, raising and lowering vehicle barriers, arming and disarming alarm systems, as well as those applications calling for emergency duress. Like a proximity card, the WRT-4 may also be used as a proximity credential, compatible with the entire range of *Pyramid Series* Proximity™ readers.

### ...most secure access control method...

Ranger takes advantage of a secure digital anti-playback routine, based upon a custom rolling code variant of the Tiny Encryption Algorithm, providing perhaps the most secure method of controlling access from a long distance. This fast and efficient cipher results in both best-in-class security, virtually eliminating the risk of code sniffing and unauthorized duplication, and read range. Readrange between the WRT-4 Ranger Transmitter and WRR-42 Ranger Receiver is field adjustable, with a maximum of up to 150-feet (46m).

## ...easy to carry four-button WRT-4 Transmitter...

With a nominal physical size of 2.3 x 1.3 x 0.5 inches (58.4 x 33 x 12.7mm) and red LED indicator, the easy-to-carry four-button WRT-4 Ranger Transmitter is delivered standard on a key ring. WRT-4's are sequentially coded in either a standard 26-bit Wiegand or custom Wiegand format, all with exact number sequences. This makes it easy to add Ranger to any standard access control system. As a cross-reference, the WRT-4's internal ID number is marked on its back

### ...Ranger Receiver outputs Wiegand data...

The WRR-42 Ranger Receiver operates from 8 to 24 VDC, with a nominal current draw of 80 mA. Housed in a weather resistant enclosure, the physical size of the WRR-42 is 6.3 x 3.5 x 2.4 inches (160 x 89 x 61mm). It includes a drill template providing mounting provisions to a USA or European wall box, as well as pre-drilled holes in the four corners allowing installation to a flat surface. The WRT-4 includes beeper and multi-color LED indicators standard. The two channel Ranger Receiver (Channels A or B) allows Ranger Transmitter data to be outputted over a pair of Wiegand outputs. Formatting of the Wiegand data outputted is dependant upon the specific programmed format of the individual WRT-4 Transmitter.

### Features and Benefits

Long Range

Adjustable Read Range

**Encrypted Rolling Code Transmission** 

Pass-Thru Wiegand Output

Familiar Size

Multi-Technology

- >>Up to 150 feet (46m)! Ideal for vehicle access without lowering the window!
- >>Adaptable for a range of applications, from up to 150 feet to just a few feet.
- >>Best-in-class security, hardened against code grabbing and scanning.
- >>Compatible with all standard access systems.
- >>Transmitter comes on a key ring, or fix mount with Velcro
- >>Transmitter combines long range ID with the simplicity of proximity

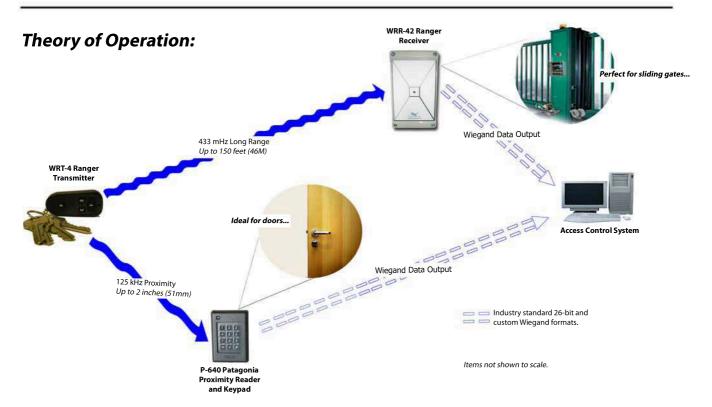


2177 Leghorn Street Mountain View, CA 94043-1605

Tel: +1-650-964-2615 Fax: +1-650-988-6687

e-mail: sales@pyramidseries.com web: www.farpointedata.com

# Ranger<sup>™</sup> Long Range Transmitter and Receiver, Models WRT-4 and WRR-42



Each four-button Ranger Transmitter integrates the convenience of long range identification with the simplicity of traditional proximity access control. For example, for long range access button-1 may be used for the parking gate, button-2 for lobby access, button-3 for arming/disarming of an alarm system, and button-4 reserved for emergency duress. Then for traditional proximity access the Transmitter can be simply presented to any *Pyramid Series* Proximity™ reader, allowing it to act as a regular Pyramid Series credential. It is important to note the Wiegand data transmitted upon either button press or presentation is identical.

## **WRT-4 Ranger Transmitter Specifications:**

Secure Transmission Technology:	Rolling Code + Custom Tiny Encryption Algorithm Variant <sup>2</sup>
Dimensions:	2.3 x 1.3 x 0.5 inches (58.4 x 12.7 x 0.5mm) nominal
Weight:	0.7 oz. (21.8g) nominal
Presentation: 125 kHz	ge 433 mHz (Active-Battery Powered) Proximity (Passive-Not Battery Powered) <sup>3</sup>
User Indicator:	Red LED, Flashes Upon Button Press
Operating Temperature:	- 25 to + 50 degrees C
Buttons:	4-Buttons, Labeled 1 thru 4
Battery:	Replaceable 27A, NM27-sized 12 Volt Alkaline Battery
Color:	Black
Marking:	Date Code and ID
Formats:	Wiegand (26-bit Industry Standard and Custom Wiegand formats)
Compatibility: Button Press: Ranger R Presentation: Pyramid S	
Warranty:	The WRT-4 carries a limited 1-year warranty against defects in materials and workmanship
Certifications:	FCC, IC, CE and C-Tick

## **WRR-42 Ranger Receiver Specifications:**

Read Range:	Installer Adjustable, Up to 150-feet (46m) with WRT-4 Transmitter <sup>1</sup>
Secure Transmission Technology:	Rolling Code + Custom Tiny Encryption Algorithm Variant <sup>2</sup>
Dimensions:	6.3 × 3.5 × 2.4 inches (160 × 89 × 61mm) nominal
Weight:	9.3 oz. (289.3g) nominal
Operation:	433 mHz
Power:	8 to 24 VDC at 80 mA nominal
User Indicators:	LED's and Audio Tone Standard
Enclosure:	White IP66 Compliant Plastic Enclosure
Formats:	Wiegand (26-bit Industry Standard and Customs Wiegand Formats)
Channels:	2, Channel A or Channel B, Installer Selectable
Wiegand Outputs:	2 Per Channel
Compatibility:	Ranger Transmitter, Model WRT-4
Warranty:	The WRR-42 carries a limited 1-year warranty against defects in material and workmanship
Certifications:	FCC, IC, CE, and C-Tick

<sup>&</sup>lt;sup>3</sup>Proximity Compatibility: *Pyramid Series* Proximity readers, cards and tags



<sup>&</sup>lt;sup>1</sup>Read range may be affected by local installation conditions.

<sup>&</sup>lt;sup>2</sup>Creates perhaps the most secure method of controlling access available today. This fast and efficient cipher results in both best-in-class security, virtually eliminating the risk of code sniffing and unauthorized duplication.