

# WRR-22

433 MHz Receiver

Ranger® Long Range Identification  
Data Sheet



**Application** - Long range coupled with a smaller footprint makes it ideal for cost sensitive access applications where pressing a button is more convenient than presenting a card.

**Compatible** - Wiegand protocols for easy integration with standard access systems.

**Industry Friendly** - Integrates long range with proximity or contactless smart card technologies.

**Performance** - Delivers read ranges up to 100 feet (30.5 m).

**Durable** - Weather resistant enclosure allows for both indoor and outdoor installation.

ETL listed Ranger® Receivers are ideal for long range access control applications, such as gates, raising and lowering barriers, arming and disarming alarm systems, as well as those applications calling for emergency duress. The Ranger Receiver, model WRR-22, was designed to output Transmitter data from buttons 1 and 2 over two separate Wiegand outputs and install similar to a *Pyramid Series Proximity®* reader, making for easy integration with most access control systems.

Ranger® Transmitters are available in either a two or four-button configuration and are equipped standard with a potted proximity or contactless smartcard module. This allows the Transmitter to also be used as a presentation-style access credential. For example, a button may be pressed to access a long range application such as a gated parking structure, and then the Transmitter may be presented to an access control reader to allow entry to the building.

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 **Farpointe Data**®  
Readers  Credentials

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## Features and Specifications:

<b>Technology:</b> Long Range	<b>Frequency:</b> 433 MHz
<b>Mounting<sup>1</sup>:</b> Any flat surface	<b>Dimensions (HxWxD):</b> 3.3 x 3.3 x 1.9 inches (84 x 84 x 46.9 mm)
<b>Transmission:</b> Rolling code + encryption	<b>Weight:</b> 8 oz. (227g)
<b>Certifications<sup>2</sup>:</b> FCC, ICC, CE, 	<b>IP Code<sup>3</sup>:</b> IP65
<b>Voltage<sup>4</sup>:</b> 12 VDC nominal	<b>Current Draw:</b> 80 mA typical @ 12VDC
<b>Read Range<sup>5</sup>:</b> Up to 100 feet (30.5 m), non-adjustable	<b>Cabling<sup>6</sup>:</b> 24 AWG minimum, multi-conductor stranded with an overall foil shield
<b>Interface<sup>7</sup>:</b> Wiegand (26 bit industry standard and custom Wiegand formats)	<b>Operating Temperature:</b> -40° F to 149° F (-40° C to +65° C)
<b>Enclosure Color:</b> Off-white plastic enclosure	<b>Audio Tone:</b> Not Applicable
<b>Indoor &amp; Outdoor Installation:</b> Electronics sealed in a weather-resistant, UL listed enclosure	<b>Warranty:</b> 12 months
<b>LEDs:</b> External four-state standard (red, green, amber & off), Power (blue) and Channel (green)	<b>Transmitters Supported:</b> WRT-2+ (all variants) WRT-4+ (all variants, Buttons 1 & 2 only)

<sup>1</sup>Receiver includes pre-drilled holes in the four corners allowing installation to any flat surface. Mounting to metal and other materials may affect read range.

<sup>2</sup>Carrying the ETL Label and tested by Intertek, conforms to UL 294.

<sup>3</sup>Self evaluated.

<sup>4</sup>Linear power supplies are recommended for best operation.

<sup>5</sup>Receiver range covers a 360-degree radius and does not need to be installed in line-of-sight to the Transmitters to function.

<sup>6</sup>For example Belden 9536 or similar, wiring to a 6-Pin pluggable terminal block.

<sup>7</sup>Supports two channels per Receiver, supporting exclusively Transmitter buttons 1 and 2.

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