

# WRR-44

433 MHz Receiver

Ranger® Long Range Identification  
Data Sheet



**Application** - Long range coupled with a full host of features makes it ideal for 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 several proximity or contactless smart card technologies.

**Performance** - Delivers read ranges up to 200 feet (61 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-44 was designed to output Transmitter data from buttons 1, 2, 3 and 4 over four 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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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> USA/European wall box or any flat surface	<b>Dimensions (HxWxD):</b> 6.3 x 3.4 x 2.3 inches (160 x 82.4 x 58.4 mm)
<b>Transmission:</b> Rolling code + encryption	<b>Weight:</b> 12 oz. (341g)
<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> 120 mA typical @ 12VDC
<b>Read Range<sup>5</sup>:</b> Up to 200 feet (61 m), installer 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 with black label	<b>Audio Tone:</b> Beeper included standard, installer switchable
<b>Indoor &amp; Outdoor Installation:</b> Electronics contained in a weather-resistant, UL listed enclosure	<b>Warranty:</b> 12 months
<b>LED:</b> Four-state standard (red, green, amber & off), installer switchable, as well as Power (blue) and Channel (green)	<b>Transmitters Supported:</b> WRT-2+ (all variants) WRT-4+ (all variants)

<sup>1</sup> Receiver includes a drill template providing mounting provisions to USA or European wall boxes, and pre-drilled holes in the four corners allowing installation to any flat surface. Mounting to metal 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> Rotate read range dial on the Receiver to adjust. Receiver range covers a 360-degree radius and does not need to be installed in line-of-sight to the Transmitters to function. Read range can be extended using a separate dipole antenna attaching to Receiver's on-board Bnc connector.

<sup>6</sup> For example Belden 9540 or similar, wiring to a 10-Pin pluggable terminal block.

<sup>7</sup> Supports four channels per Receiver, supporting Transmitter buttons 1, 2, 3 and 4.

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