WRR-22
LONG-RANGE
RECEIVER

DOORS   PARKING   TURNSTILES   ALARMS

Ranger® Long-Range

Frequency: 433 MHz
Read Range: Up to 100 feet (30.5 m)

MAXSecure™
Unique Security Feature

ETL Listed — Independently Tested and Certified (Wiegand model)
Conforms to UL Standard 294 and ULC 60839-11-1

Warranty
One-Year Warranty

Wiegand or OSDP*
Output Interface

*OSDP receivers are independent models and need to be appended
with the suffix "-OSDP" when ordering (Example: WRR-22-OSDP).

Farpointe Data®
R e a d e r s • C r e d e n t i a l s

WRR-22 LONG-RANGE RECEIVER

Ranger from Farpointe Data sets the electronic security benchmark for high frequency, long-range identification Receivers and Transmitters. Based upon proven contactless digital ultra high frequency (UHF) technology, the Ranger Receivers interface with a wide range of electronic access control systems by complying with either the legacy Wiegand communication protocol or the latest bi-directional Open Supervised Device Protocol (OSDP). Additionally, Ranger Transmitters are active devices, powered by the most reliable and common battery, and equipped with a potted proximity or contactless smartcard module. The modules can be ordered to support several proximity reader technologies and allow the Transmitter to be used as a close-range credential.

Specifications	WRR-22
Technology	Long range
Frequency	433 MHz
Mounting[1]	Any flat surface
Dimensions	3.3" W × 3.3" H × 1.9" D (84 mm × 84 mm × 48.3 mm)
Transmission	Rolling code + encryption
Weight	8 oz (227 g)
Certifications	FCC, ICC, CE, UL Standard 294, ULC 60839-11-1[2]
IP Code[3]	IP67
Voltage[4]	12 VDC nominal
Current Draw	80 mA typical @ 12 VDC
Read Range[5]	Up to 100 feet (30.5 m), non-adjustable
Cabling[6]	24 AWG minimum, multiconductor stranded with an overall foil shield
Interface[7]	Wiegand (26 bit industry standard and custom Wiegand formats) or OSDP[8]
Operating Temperature	–40° F to 149° F (–40° C to +65° C)
Operating Humidity	5% to 95% relative humidity non-condensing
Enclosure Color	Off-white plastic enclosure
Audio Tone	N/A
Indoor & Outdoor Installation	Electronics sealed in a weather-resistant, UL listed enclosure
Warranty	12 months
LED	External four-state standard (red, green, amber, and off), Power (blue), and Channel (green)
Transmitters Supported	WRT-2+ (all variants) WRT-4+ (all variants, buttons 1 & 2 only)

NOTES:

1 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.

2 Carrying the ETL Label and tested by Intertek, conforms to UL Standard 294 and ULC Standard 60839-11-1. Only Wiegand models have been evaluated.

3 Equivalent to WRR-44.

4 Linear power supplies are recommended for best operation.

5 Receiver range covers a 360-degree radius and does not need to be installed in line-of-sight to the Transmitters to function. Operation at the "up to" read range stated should be reliable. However, environmental conditions, as well as the locations of the Transmitter and Receiver will affect read range.

6 For example, Belden 9540 or similar, wiring to a 6-Pin pluggable terminal block. Shielded, twisted pair (Belden 8723 or similar) for OSDP. Contact your access control system manufacturer for their specific requirements.

7 Supports two channels per Receiver, supporting exclusively Transmitter buttons 1 and 2.

8 OSDP receivers are independent models and need to be appended with the suffix "-OSDP" when ordering (Example: WRR-22-OSDP). Only Channel A (Terminals AD0 and AD1) can have OSDP capability added, and must be specified at time of order.

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Farpointe Data reserves the right to change specifications without notice.

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WRR-44
LONG-RANGE RECEIVER

DOORS   PARKING   TURNSTILES   ALARMS

Ranger® Long-Range

Frequency: 433 MHz
Read Range: Up to 200 feet (61 m)

MAXSecure™
Unique Security Feature

ETL Listed — Independently Tested and Certified (Wiegand model)
Conforms to UL Standard 294 and ULC 60839-11-1

Warranty
One-Year Warranty

Wiegand or OSDP*
Output Interface

U.S. or European Wall-Box Mount
Box & Flat Surfaces

*OSDP receivers are independent models and need to be appended
with the suffix "-OSDP" when ordering (Example: WRR-44-OSDP).

Farpointe Data®
Readers • Credentials

WRR-44 LONG-RANGE RECEIVER

Ranger from Farpointe Data sets the electronic security benchmark for high frequency, long-range identification Receivers and Transmitters. Based upon proven contactless digital ultra high frequency (UHF) technology, the Ranger Receivers interface with a wide range of electronic access control systems by complying with either the legacy Wiegand communication protocol or the latest bi-directional Open Supervised Device Protocol (OSDP). They offer value-add features such as MAXSecure™ and up to 200 feet of read range (WRR-44). Additionally, Ranger Transmitters are active devices, powered by the most reliable and common battery, and equipped with a potted proximity or contactless smartcard module. The modules can be ordered to support several proximity reader technologies and allow the Transmitter to be used as a close-range credential.

Specifications	WRR-44
Technology	Long range
Frequency	433 MHz
Mounting[1]	USA/European wall box or any flat surface
Dimensions	3.4" W × 6.3" H × 2.3" D (86.4 mm × 160 mm × 58.4 mm)
Transmission	Rolling code + encryption
Weight	12 oz (340 g)
Certifications	FCC, ICC, CE, UL Standard 294, ULC 60839-11-1[2]
IP Code[3]	IP67
Voltage[4]	12 VDC nominal
Current Draw	120 mA typical @ 12 VDC
Read Range[5]	Up to 200 feet (61 m), installer adjustable
Cabling[6]	24 AWG minimum, multiconductor stranded with an overall foil shield
Interface[7]	Wiegand (26 bit industry standard and custom Wiegand formats) or OSDP[8]
Operating Temperature	−40° F to 149° F (−40° C to +65° C)
Operating Humidity	5% to 95% relative humidity non-condensing
Enclosure Color	Off-white plastic enclosure with black label
Audio Tone	Beeper included standard, installer switchable
Indoor & Outdoor Installation	Electronics sealed in a weather-resistant, UL listed enclosure
Warranty	12 months
LED	Four-state standard (red, green, amber, and off), installer switchable, as well as Power (blue) and Channel (green)
Transmitters Supported	WRT-2+ (all variants) WRT-4+ (all variants)

NOTES:

1   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.

2   Carrying the ETL Label and tested by Intertek, conforms to UL Standard 294 and ULC Standard 60839-11-1. Only Wiegand models have been evaluated.

3   Independently tested and verified by Intertek.

4   Linear power supplies are recommended for best operation.

5   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 attached to Receiver's on-board SMA connector.

6   For example, Belden 9540 or similar, wiring to a 10-Pin pluggable terminal block. Shielded, twisted pair (Belden 8723 or similar) for OSDP.

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

8   OSDP receivers are independent models and need to be appended with the suffix "-OSDP" when ordering (Example: WRR-44-OSDP). Only Channel A (Terminals AD0 and AD1) can have OSDP capability added, and must be specified at time of order.

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WRT-2M
MINI LONG-RANGE TRANSMITTER

DOORS   PARKING   TURNSTILES   ALARMS

Ranger® Long-Range

BUTTON PRESS:
Frequency: 433 MHz
Read Range: Up to 150 feet (46 m)

MAXSecure™
Unique Security Feature

Warranty
ONE YEAR
One-Year Warranty

Wiegand
Output Interface

Slot-Punch
Built-in Eyelet

Contactless
Button Press – Up to 150 ft (46 m)

WRT-2M MINI LONG-RANGE TRANSMITTER

Ranger from Farpointe Data sets the electronic security benchmark for high frequency, long-range identification Receivers and Transmitters. Based upon proven contactless digital ultra-high frequency (UHF) technology, the Ranger Receivers interface with a wide range of electronic access control systems by complying with the Wiegand communication protocol. They offer value-add features such as MAXSecure™ and up to 150 feet of read range (WRT-2M with WRR-44). The WRT-2M Transmitter is an active device, powered by a highly reliable and common battery, and can be fitted with an adhesive disc tag, such as Farpointe's model PDT-1—that adheres to the back of the Transmitter—which also allows it to be used as a close-range presentation-style access credential. Disc tags, which are sold separately, are available in a variety of protocols.

Specifications	WRT-2M
Technology	Long range
Frequency	Button press: 433 MHz
Marking	Date code and ID
Dimensions	1.4" W × 1.95" H × 0.47" D (35.6 mm × 49.5 mm × 11.9 mm)
Button Press Transmission	Rolling code + encryption
Weight	0.6 oz (17 g)
Certifications	FCC, ICC, CE
IP Code[1]	IP67
Battery[2]	Single replaceable CR2032, 3.3V, lithium battery
Compatibility	Button press: WRR-44 and WRR-22 Receivers
Read Range[3]	Upon button press: WRR-22: Up to 75 feet (23 m) WRR-44: Up to 150 feet (46 m)
Durability[4]	Electronics sealed in a weather-resistant enclosure
Interface[5]	Wiegand (26-bit industry standard and custom Wiegand formats)
Operating Temperature	−40° F to 122° F (−40° C to +50° C)
Enclosure	Black polycarbonate
Buttons	Red silicon
OEM Label Area Dimensions	0.9" W × 0.35" H (22.86 mm × 8.89 mm), with corner radius of 0.06" (1.5 mm)
Key Ring	Optional 1-inch (25 mm) key ring
Warranty	1-year limited warranty
Convenience	Built-in eyelet makes it easy to carry on a key ring or lanyard
LED	Integrated red LED standard (activated upon button press)
Presentation Disc Tag (sold separately) Technologies Supported[6]	PDT-1: *Pyramid Series* Proximity® supported[7] PDT-1-A: Certain AWID® 125-kHz Proximity protocols supported PDT-1-H: Certain HID® 125-kHz Proximity protocols supported[8]

NOTES:
1   Self evaluated.
2   Rated to typically provide more than 250,000 button presses under normal conditions with supplied Renata CR2032.
3   Button press tested with 12 VDC at WRR-22 and WRR-44. Receiver coverage is omni-directional and need not be installed in a line-of-sight configuration.
4   Electronics are snap sealed in a weather-resistant enclosure.
5   Please contact Farpointe for ordering assistance.
6   Presentation requires a separate disc tag, sold separately, such as the PDT-1 Disc Tag, which would be adhered to the back of the transmitter. When ordering, please indicate the proximity disc tag desired. Contact Farpointe for additional information.
7   Examples of supporting readers include, but are not limited to, P-300, P-400, P-500, and P-640.
8   Examples of supporting readers include, but are not limited to, ProxPoint® Plus, ThinLine II®, and MiniProx®.

WRT-2+
& WRT-4+
LONG-RANGE
TRANSMITTERS

DOORS   PARKING   TURNSTILES   ALARMS

Ranger® Long-Range

Button Press Frequency: 433 MHz
Read Range: Up to 200 feet (61 m)

Presentation Frequency: 125 kHz or 13.56 MHz
Read Range: Up to 3.5 inches (88 mm)

MAXSecure™
Unique Security Feature

ETL Listed — Independently Tested and Certified
Conforms to UL Standard 294 and ULC 60839-11-1

Warranty
One-Year Warranty

Wiegand
Output Interface

Built-in Eyelet
Carry on a Key Ring

Contactless
Button Press – Up to 200 ft (61 m)
Presentation – Up to 3.5 in (88 mm)

Farpointe Data®
R e a d e r s • C r e d e n t i a l s

WRT-2+ & WRT-4+ LONG-RANGE TRANSMITTERS

Ranger from Farpointe Data sets the electronic security benchmark for high frequency, long-range identification Receivers and Transmitters. Based upon proven contactless digital ultra high frequency (UHF) technology, the Ranger Receivers interface with a wide range of electronic access control systems by complying with the Wiegand communication protocol. They offer value-add features such as MAXSecure™ and up to 200 feet of read range (WRR-44). Additionally, Ranger Transmitters are active devices, powered by the most reliable and common battery, and equipped with a potted proximity or contactless smartcard module. The modules can be ordered to support several proximity reader technologies and allow the Transmitter to be used as a close-range credential.

Specifications	WRT-2+ & WRT-4+
Technology	Long range
Frequency	Button press – 433 MHz Presentation – 125 kHz or 13.56 MHz
Marking	Date code and ID
Dimensions	1.45" W × 2.5" H × 0.56" D (37 mm × 63.5 mm × 14.2 mm)
Button Press Transmission	Rolling code + encryption
Weight	0.7 oz (20 g)
Certifications	FCC, ICC, CE, UL Standard 294, ULC 60839-11-1[1]
IP Code[2]	IP67-rated for outdoor use
Battery[3]	Single replaceable CR2032, 3.3V, lithium battery
Compatibility	Button press: WRR-44 and WRR-22 Receivers Presentation: Pyramid readers, Delta readers, and others
Read Range[4]	Button press: Up to 200 feet (61 m) Presentation: Up to 3.5 inches (88 mm)
Durability[5]	Electronics sealed in a weather-resistant enclosure
Interface	Wiegand (26-bit industry standard and custom Wiegand formats)
Operating Temperature	−40° F to 122° F (−40° C to +50° C)
Enclosure Color	Black polycarbonate enclosure with gray ABS keys
OEM Label Area Dimensions	0.9" W × 0.35" H (22.86 mm × 8.89 mm), with corner radius of 0.06" (1.5 mm)
Key Ring[6]	Optional 1-inch (25 mm) key ring
Warranty	1-year limited warranty
Convenience	Built-in eyelet makes it easy to carry on a key ring or lanyard
LED	Integrated red LED standard (activated upon button press)
Transmitters Models	WRT-2+ (2 buttons labeled 1 & 2) WRT-4+ (4 buttons labeled 1 through 4)
Presentation Insert Interoperability[7]	WRT-2+ or WRT-4+: Supports 125-kHz *Pyramid Series* Proximity® protocols[8] WRT-2+H or WRT-4+H: Supports certain HID® 125-kHz Proximity protocols[9] WRT-2+A or WRT-4+A: Supports certain AWID® 125-kHz Proximity protocols[10] WRT-2+S1 or WRT-4+S1: Supports certain MIFARE® Classic 1K 13.56-MHz Smartcard protocols[11] WRT-2+S4 or WRT-4+S4: Supports certain MIFARE® Classic 4K 13.56-MHz Smartcard protocols[11] WRT-2+D2 or WRT-4+D2: Supports certain MIFARE® DESFire® EV2 2K 13.56-MHz Smartcard protocols[11]

NOTES:
1 Carrying the ETL Label and tested by Intertek, conforms to UL Standard 294 and ULC Standard 60839-11-1.
2 Independently tested and verified by Intertek.
3 Rated to typically provide more than 250,000 button presses under normal conditions.
4 Button press tested with 12 VDC at WRR-44, presentation with 12 VDC at P-500. Receiver coverage is omni-directional and need not be installed in a line-of-sight configuration.
5 Electronics are snap sealed in a weather-resistant enclosure.
6 Contact Farpointe for ordering information.
7 When ordering, please indicate the proximity insert compatibility desired by using a suffix, for example, WRT-4+**H**, WRT-4+**S4**. Contact Farpointe for additional information.
8 Examples of supporting readers include, but are not limited to, P-300, P-400, P-500, and P-640.
9 Examples of supporting readers include, but are not limited to, ProxPoint® Plus, ThinLine II®, and MiniProx®.
10 Examples of supporting readers include, but are not limited to, SP-6320, SR-2400, and KP-6840.
11 Examples of supporting readers include, but are not limited to, Delta3, Delta5, and Delta6.4 variants.

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