DELTA6.4
CONTACTLESS SMARTCARD READER AND KEYPAD

DOORS PARKING TURNSTILES KEYPAD

Delta® Contactless Smartcard

Frequency: 13.56 MHz
Read Range: Up to 2 inches (51 mm)

MAXSecure™
Integrated High-Security Technology

ValidID™
Fraudulent Data Detection Solution

Warranty
LIFETIME
Lifetime Warranty

Wiegand
001
Output Interface

U.S. Single-Gang Wall-Box Mount
Box & Flat Surfaces

Farpointe Data®
R e a d e r s • C r e d e n t i a l s
A DORMA Group Company

DELTA6.4 CONTACTLESS SMARTCARD READER AND KEYPAD

Delta comprises Farpointe Data's 13.56 MHz line of contactless smartcard readers, cards, and tags. Based upon proven MIFARE® contactless digital radio frequency identification (RFID) technology, Delta readers 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 ValidID™, and support sector and card serial number (CSN) reads. Additionally, Delta cards and tags are passive devices, eliminate maintenance by requiring no battery, and can be ordered programmed to various formats and encryption keys.

Specifications	Delta6.4
Technology	Contactless smartcard
Frequency	13.56 MHz
Mounting[1]	Single-gang wall box, as well as flat surfaces
Dimensions	3" W × 4.6" H × 0.75" D (76 mm × 117 mm × 19 mm)
OEM Label Area Dimensions	0.9" W × 0.35" H (22.86 mm × 8.89 mm) with corner radius of 0.63" (16 mm)
Weight	4 oz (113 g)
Certifications	FCC, ICC, CE
IP Code[2]	IP67
Voltage[3]	+5 – 14 VDC
Current Draw	175 mA typical @ 12 VDC
Read Range[4]	Up to 2 inches (51 mm)
Cabling[5]	24 AWG minimum, multiconductor stranded with an overall foil shield
Interface	Wiegand ABA Track II
Operating Temperature	−40° F to 149° F (−40° C to +65° C)
Color Options	A black snap-on cover included standard
Audio Tone	Beeper included standard
Indoor & Outdoor Installation	Electronics sealed in weather- and tamper-resistant epoxy potting
Warranty	Limited lifetime warranty
LED	Four-state standard (red, green, amber, and off)
Keypad Output[6]	Wiegand
Technologies Supported	Delta6.4-CSN: Interoperable with CSN[7] only (may include ISO 14443 and ISO 15693 compliant credentials, as well as credentials making use of MIFARE® Classic 1k & 4k, MIFARE® DESFire®, MIFARE UltraLight®, and MIFARE Plus®). Delta6.4-Sector: Interoperable with CSN + Sector (may include Delta Card Sector[8], as well as FIPS201 [PIV Type A & B], TWIC, and CAC credentials).

NOTES:

1   Spacer included standard for installations on metal.
2   Self evaluated.
3   Linear power supplies are recommended for best operation.
4   Using DC1-1 Delta Clamshell Contactless Smartcard with 12 VDC at the reader. Other credentials may be less.
5   For example, Belden 9535 or similar.
6   Available only on Delta6.4 model; 8-Bit Burst or 26-bit Wiegand standard. For 4-Bit Burst and other options, please contact Farpointe.
7   CSN = Card Serial Number.
8   Examples include, but are not limited to, DC1-1, DM1-3, and DK1-3.

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P-640

125 kHz Proximity Card Reader + Keypad

Application - Compact design makes it ideal for applications requiring both a card reader and a keypad (PIN - Personal ID Number), such as door access (metal or plastic wall-box mount), gate entry and parking barriers.

Compatible - Wiegand protocol for easy integration with standard access systems.

Industry Friendly - Can support several proximity card and tag technologies.

Performance - Delivers non-contact read ranges up to 8 inches (203 mm).

Durable - Electronics are secured with tamper- and weather-resistant epoxy potting, and backed by a lifetime warranty.

Pyramid Series Proximity from Farpointe Data sets the electronic security benchmark for 125 kHz proximity readers, card and tags. Based upon proven contactless digital radio frequency identification (RFID) technology, Pyramid readers 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 fleaPower™, and can be ordered to support several proximity card and tag technologies. Additionally, Pyramid cards and tags are passive devices, eliminate maintenance by requiring no battery, and can be ordered to support several proximity reader technologies.

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Farpointe Data®

R e a d e r s   ◉   C r e d e n t i a l s

P-640

125 kHz Proximity Card Reader + Keypad

Features and Specifications:

Technology:	Proximity	**Frequency:**	125 kHz
Mounting:	Metal or plastic US single-gang wall box, as well as flat surfaces	**Dimensions (HxWxD):**	4.6 x 3 x 0.75 inches (117 x 76 x 19 mm)
OEM Label Area Dimensions:	0.9 x 0.35 inch (22.86 x 8.89 mm), with corner radius of 0.63 inch (16 mm)	**Weight:**	4 oz. (113g)
Certifications:	FCC, ICC, CE, C-Tick	**IP Code:**	IP67[3]
Voltage[1]:	+5 - 16 VDC	**Current Draw:**	70 mA typical, 110 mA peak @ 12VDC
Read Range[2]:	Up to 8 inches (203 mm)	**Cabling[4]:**	24 AWG minimum, multi-conductor stranded with an overall foil shield
Interface:	Wiegand	**Operating Temperature:**	-40° F to 149° F (-40° C to +65° C)
Color Options:	A black and a white snap-on cover included standard	**Audio Tone:**	Beeper included standard
Indoor & Outdoor Installation:	Electronics sealed in weather- and tamper-resistant epoxy potting	**Warranty:**	Limited lifetime warranty
LED:	Four-state standard (red, green, amber & off)	**Keypad Output[5]:**	Wiegand

Technologies Supported: P-640: Pyramid Series Proximity Cards and Tags[6]
P-640-H: Pyramid + certain HID® 125-kHz Proximity protocols[7]
P-640-A: Pyramid + certain AWID® 125-kHz Proximity protocols[8]
P-640-H-A: Pyramid + certain HID 125-kHz Proximity protocols + certain AWID 125-kHz Proximity protocols

[1] Linear power supplies are recommended for best operation.
[2] Using PSC-1 Standard Light Proximity Card with 12VDC at the reader.
[3] Self evaluated
[4] For example Belden 9535 or similar.
[5] Available only on P-640 models; 8-Bit Burst or 26-bit Wiegand standard, for 4-Bit Burst and other options please contact Farpointe.
[6] Examples may include, and may not be limited to, PSC-1, PSI-4, PSM-2, PSK-3, and PDT-1.
[7] Examples may include, and may not be limited to, ProxCard® II, ISOProx® II and ProxKey® II.
[8] Examples may include, and may not be limited to, CS Prox Card, GR (ISO) Graphics Quality Prox Card and KT Key Tag.

Farpointe Data reserves the right to change specifications without notice.

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

DOORS **PARKING** **TURNSTILES** **ALARMS**

Ranger® Long-Range

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

MAXSecure™
Integrated High-Security Technology

ETL Listed
Independently Tested & Certified

Warranty
One-Year Warranty

Wiegand
Output Interface

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 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	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[2]	FCC, ICC, CE, ETL Listed
IP Code[3]	IP65
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)
Operating Temperature	−40° F to 149° F (−40° C to +65° C)
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 294.

3 Self evaluated.

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.

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

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P/N: 01130-001 · Rev. 01.15

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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™
Integrated High-Security Technology

ETL Listed
Independently Tested & Certified

Warranty
One-Year Warranty
ONE YEAR

Wiegand
Output Interface
001

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

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 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	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[2]	FCC, ICC, CE, ETL Listed
IP Code[3]	IP65
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)
Operating Temperature	−40° F to 149° F (−40° C to +65° C)
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 294.

3   Self evaluated.

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 attaching to Receiver's on-board BNC connector.

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

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

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

DOORS   **PARKING**   **TURNSTILES**   **ALARMS**

Ranger® Long-Range

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

Frequency: 125 kHz or 13.56 MHz
Read Range: Up to 2 inches (51 mm)

MAXSecure™
Integrated High-Security Technology

ETL Listed
Independently Tested & Certified

Warranty
One-Year Warranty

Wiegand
Output Interface

Slot-Punch
Built-in Eyelet

Contactless
Button Press – Up to 200 ft (61 m)
Presentation – Up to 2 in (51 mm)

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, ETL Listed
IP Code[1]	IP65
Battery[2]	Single replaceable CR2032, 3.3V, lithium battery
Compatibility	Button press: WRR-42 Receiver Presentation: Pyramid readers and others
Read Range[3]	Button press: Up to 200 feet (61 m) Presentation: Up to 2 inches (51 mm)
Durability[4]	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 0.63" (16 mm)
Key Ring[5]	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[6]	WRT-2+ or WRT-4+: Supports 125 kHz *Pyramid Series* Proximity® protocols[7] WRT-2+H or WRT-4+H: Supports certain HID® 125 kHz Proximity protocols[8] WRT-2+A or WRT-4+A: Supports certain AWID® 125 kHz Proximity protocols[9] WRT-2+S1 or WRT-4+S1: Supports certain MIFARE® Classic 1K 13.56 MHz Smartcard protocols[10] WRT-2+S4 or WRT-4+S4: Supports certain MIFARE® Classic 4K 13.56 MHz Smartcard protocols[10]

NOTES:
1 Self evaluated.
2 Rated to typically provide more than 250,000 button presses under normal conditions.
3 Button press tested with 12 VDC at WRR-42, presentation with 12 VDC at P-500. 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 Contact Farpointe for ordering information.
6 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.
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®.
9 Examples of supporting readers include, but are not limited to, SP-6320, SR-2400, and KP-6840.
10 Examples of supporting readers include, but are not limited to, Delta3, Delta5, and Delta6.4 variants.

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