

# VIKING PRODUCT MANUAL

COMMUNICATION &amp; SECURITY SOLUTIONS

**PRX-C  
PRX-C-ISO  
PRX-FOB**

October 27, 2016

## 125KHz Proximity Cards and Key Ring Fobs for Use with the Viking PRX-1, PRX-2, PRX-3, PRX-5 and Certain Legacy HID® Card Readers\*

The **PRX-C** and **PRX-C-ISO** are non-contact security cards that can be placed in front of a **PRX-1, 2, 3, 5** and certain legacy 125KHz HID® proximity card readers\* to allow entrance into a secured area. The **PRX-C** is a clam shell card made made from 0.070" thick plastic to resist bending and folding. A slot is provided at one end to allow a lanyard to be added for creating a "dog tag" style neck strap. The **PRX-C-ISO** is a thin 0.032" thick flexible "ISO" style proximity card. Much like a credit card, the **PRX-C-ISO** is perfect for storing in your wallet.

The **PRX-FOB** is a proximity key ring fob with brass eyelet designed to attach to a key chain or necklace. The **PRX-FOB**'s compact size is only 1.5" x 1.2" x 0.15" making it one of the smallest available.

The cards and fobs are pre-programmed with a standard 26 bit Wiegand format consisting of a three digit facility code and a five-digit card number. The range of facility codes is from 2 to 254, and the card numbers range from 1 to 65,534. The actual card number can be printed on a label and placed on the back of each card for easy reference, or the card number can be offset by a fixed value for security purposes.



When ordering, the quantity, facility code, and starting card number along with the card number printing must be specified. Please use the attached order form on page 4.

### Features

- Industry standard 125KHz RFID technology
- 26 bit Wiegand format
- Non-contact reading for long life
- Use with the Viking **PRX-1, 2, 3, 5** and certain legacy 125KHz HID® proximity card readers
- **PRX-C** is a durable 0.070" thick plastic card with a slot for neck strap
- **PRX-C-ISO** is a thin 0.032" thick flexible "ISO" style card
- **PRX-FOB** is a durable key ring fob with a IP67 rating allowing it to even withstand the washing machine
- Up to 253 facility codes and 65,534 card numbers available
- Cannot be erased by a magnet
- For Long Range Applications see Viking Models **LRR-4 & LRT-4** DOD# 226

\*HID and the HID logo are registered trademarks of HID Global Corporation, an ASSA ABLOY company. All other trademarks are the property of their respective owners.

### Applications

- Applications include: apartment entry, building security, secured offices, etc.
- Compatible with these Viking products:

Model	Description	DOD#
<b>E-70/75 Series</b>	Double Gang Entry Phones with Built-In Proximity Card Reader and/or Camera	207, 208
<b>K-1770/1775 Series</b>	Entry Phones with Keypads, Proximity Card Reader and/or Camera	275, 280, 257, 258
<b>K-1270/1275 Series</b>	Apartment Entry Phones with Keypads, Proximity Card Reader and/or Camera	184, 194
<b>PRX-1</b>	125KHz Proximity Card Reader	221
<b>PRX-2</b>	Keypad with Built-In Proximity Card Reader	219
<b>PRX-3</b>	Compact Medium Range Proximity Card Reader	228
<b>PRX-5</b>	Mullion-Mount Keypad with Built-In Proximity Card Reader	224

[www.vikingelectronics.com](http://www.vikingelectronics.com)  
Information: (715) 386-8861

### Specifications

Complete Specifications on page 2

## Specifications

**PRX-C Dimensions:** 2.135" x 3.39" x 0.070" (54.2mm x 86.1mm x 1.78mm)

**PRX-C Shipping weight:** 0.35 oz (10 g)

**PRX-C-ISO Dimensions:** 2.124" x 3.368" x 0.032" (53.9mm x 85.5mm x 0.81mm)

**PRX-C-ISO Shipping weight:** 0.21 oz (6 g)

**PRX-FOB Dimensions:** 1.5" x 1.2" x 0.15" (38.1mm x 30.5mm x 3.8mm)

**PRX-FOB Shipping weight:** 0.11 oz (3 g)

**Read Range:** Variable - see proximity card reader specifications

**Facility Code Range:** 2 - 255

**Card Number Range:** 1 - 65,535

**Format:** 26 bit standard Wiegand

**Operating Frequency:** 125kHz

## Compatible Viking Products

### 125KHz Proximity Card Reader



The model **PRX-1** is a 125KHz proximity card reader and is designed to be mounted directly to a metal door or window frame (mullions), making it ideal for applications requiring an access credential. The proximity card reader transmits data in 26-Bit Wiegand format, making it compatible with any of the Wiegand equipped Viking entry controllers.

The **PRX-1** delivers non-contact read ranges up to 6 inches (152 mm), and operates from 5 to 14 VDC. Physical size is a compact 3.2 x 1.7 x 0.70 inches (80 x 43 x 17 mm). Mounting is simplified with horizontal and vertical mounting slots, which allow the reader to be conveniently adjusted and leveled. To allow both indoor and outdoor operation the electronics are sealed in tamper resistant epoxy potting. Concealing the mounting hardware, the **PRX-1** ships with both Black and Ash (Off-White) covers standard. See **DOD# 221** for more info.

### 125KHz Proximity Card Reader with Built-In Keypad



The model **PRX-2** is designed to be mounted directly to standard single-gang wall box, and integrates both a 125KHz proximity card reader and keypad into a single-unit making it ideal for applications requiring an access credential and/or personal identification number (PIN).

The proximity card reader and keypad of the **PRX-2** both transmit data in 26-Bit Wiegand format, making it compatible with any of the Wiegand equipped Viking entry controllers. The keypad is based upon cutting-edge, non-mechanical, capacitive technology, which, unlike membrane keypads, includes no moving parts prone to early failure. Advanced keypad enhancements include fully potted circuit board (EWP), keys with blue LED backlighting, raised key outlines and pip on the 5-key.

The **PRX-2** delivers non-contact read ranges up to 6 inches (152 mm), and operates from 5 to 14 VDC. To allow both indoor and outdoor operation the electronics are sealed in tamper resistant epoxy potting. Concealing the mounting hardware, the **PRX-2** ships with both Black and Ash (Off-White) covers standard. See **DOD# 219** for more information.

### Medium Range 125KHz Proximity Card Reader



The model **PRX-3** is a high performance medium range 125KHz proximity card reader. The **PRX-3**'s compact size yet long read range of up to 16 inches\* make it ideal for parking control, gate access, turnstiles, etc. It is designed to be mounted directly to a wall, post, single gang electrical box or use an optional mounting kit (see models below) for attaching it to a gooseneck pedestal. Mounting is simplified with horizontal and vertical mounting slots, which allow the reader to be conveniently adjusted and leveled. To increase vandal resistance the chassis is a single piece design with the mounting screws concealed behind a UV stable label.

The proximity card reader transmits data in 26-Bit Wiegand format, making it compatible with any of the Wiegand equipped Viking entry controllers. The **PRX-3** is equipped with Enhanced Weather Protection (EWP) for outdoor installations where the unit is exposed to precipitation or condensation. With its sealed connections and fully potted electronics the **PRX-3** is designed to meet an IP66 Ingress Protection Rating. For more information see **DOD# 228**.



## Mullion-Mount 125KHz Proximity Card Reader with Built-In Keypad

The model **PRX-5** is designed to be mounted directly to Mullions, metal door or window frames or any flat surface. The model **PRX-5** integrates both a 125KHz proximity card reader and keypad into a single-unit making it ideal for applications requiring an access credential and/or personal identification number (PIN).

The proximity card reader and keypad of the **PRX-5** both transmit data in 26-Bit Wiegand format, making it compatible with any of the Wiegand equipped Viking entry controllers. The keypad is based upon cutting-edge, non-mechanical, capacitive technology, which, unlike membrane keypads, includes no moving parts prone to early failure. Advanced keypad enhancements include fully potted circuit board (EWP), keys with blue LED backlighting, raised key outlines and pip on the 5-key.

The **PRX-5** delivers non-contact read ranges up to 5 inches (127 mm), and operates from 5 to 14 VDC. To allow both indoor and outdoor operation the electronics are sealed in tamper resistant epoxy potting. Concealing the mounting hardware, the **PRX-5** ships with a Black cover. See **DOD# 224** for more information.

## Warranty

### IF YOU HAVE A PROBLEM WITH A VIKING PRODUCT, CONTACT: VIKING TECHNICAL SUPPORT AT (715) 386-8666

Our Technical Support Department is available for assistance Monday through Friday 8am - 5pm central time. So that we can give you better service, before you call please:

1. Know the model number, the serial number and what software version you have (see serial label).
2. Have your Product Manual in front of you.
3. It is best if you are on site.

### RETURNING PRODUCT FOR REPAIR

The following procedure is for equipment that needs repair:

1. Customer must contact Viking's Technical Support Department at 715-386-8666 to obtain a Return Authorization (RA) number. The customer **MUST** have a complete description of the problem, with all pertinent information regarding the defect, such as options set, conditions, symptoms, methods to duplicate problem, frequency of failure, etc.
2. Packing: Return equipment in original box or in proper packing so that damage will not occur while in transit. Static sensitive equipment such as a circuit board should be in an anti-static bag, sandwiched between foam and individually boxed. All equipment should be wrapped to avoid packing material lodging in or sticking to the equipment. Include ALL parts of the equipment. C.O.D. or freight collect shipments cannot be accepted. Ship cartons prepaid to: **Viking Electronics, 1531 Industrial Street, Hudson, WI 54016**
3. Return shipping address: Be sure to include your return shipping address inside the box. We cannot ship to a PO Box.
4. RA number on carton: In large printing, write the R.A. number on the outside of each carton being returned.

### RETURNING PRODUCT FOR EXCHANGE

The following procedure is for equipment that has failed **out-of-box (within 10 days of purchase)**:

1. Customer must contact Viking's Technical Support at 715-386-8666 to determine possible causes for the problem. The customer **MUST** be able to step through recommended tests for diagnosis.
2. If the Technical Support Product Specialist determines that the equipment is defective based on the customer's input and troubleshooting, a Return Authorization (R.A.) number will be issued. This number is valid for fourteen (14) calendar days from the date of issue.
3. After obtaining the R.A. number, return the approved equipment to your distributor, referencing the R.A. number. Your distributor will then replace the product over Viking using the same R.A. number.
4. **The distributor will NOT exchange this product without first obtaining the R.A. number from you. If you haven't followed the steps listed in 1, 2 and 3, be aware that you will have to pay a restocking charge.**

### TWO YEAR LIMITED WARRANTY

Viking warrants its products to be free from defects in the workmanship or materials, under normal use and service, for a period of two years from the date of purchase from any authorized Viking distributor. If at any time during the warranty period, the product is deemed defective or malfunctions, return the product to Viking Electronics, Inc., 1531 Industrial Street, Hudson, WI., 54016. Customer must contact Viking's Technical Support Department at 715-386-8666 to obtain a Return Authorization (R.A.) number.

This warranty does not cover any damage to the product due to lightning, over voltage, under voltage, accident, misuse, abuse, negligence or any damage caused by use of the product by the purchaser or others. This warranty does not cover non-EWP products that have been exposed to wet or corrosive environments. This warranty does not cover stainless steel surfaces that have not been properly maintained.

**NO OTHER WARRANTIES.** VIKING MAKES NO WARRANTIES RELATING TO ITS PRODUCTS OTHER THAN AS DESCRIBED ABOVE AND DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

**EXCLUSION OF CONSEQUENTIAL DAMAGES.** VIKING SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE TO PURCHASER, OR ANY OTHER PARTY, FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR EXEMPLARY DAMAGES ARISING OUT OF OR RELATED TO THE SALE OR USE OF THE PRODUCT SOLD HEREUNDER.

**EXCLUSIVE REMEDY AND LIMITATION OF LIABILITY.** WHETHER IN AN ACTION BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR ANY OTHER LEGAL THEORY, ANY LIABILITY OF VIKING SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT, OR AT VIKING'S OPTION, REFUND OF THE PURCHASE PRICE AS THE EXCLUSIVE REMEDY AND ANY LIABILITY OF VIKING SHALL BE SO LIMITED.

IT IS EXPRESSLY UNDERSTOOD AND AGREED THAT EACH AND EVERY PROVISION OF THIS AGREEMENT WHICH PROVIDES FOR DISCLAIMER OF WARRANTIES, EXCLUSION OF CONSEQUENTIAL DAMAGES, AND EXCLUSIVE REMEDY AND LIMITATION OF LIABILITY, ARE SEVERABLE FROM ANY OTHER PROVISION AND EACH PROVISION IS A SEPARABLE AND INDEPENDENT ELEMENT OF RISK ALLOCATION AND IS INTENDED TO BE ENFORCED AS SUCH.

# Order Form for PRX-C / PRX-C-ISO / PRX-FOB

Please fill out the following form and return it to your Viking distributor or email it to [orders@vikingelectronics.com](mailto:orders@vikingelectronics.com)

**IMPORTANT: PROGRAMMED CARDS/FOBS ARE NON-CANCELABLE AND NON-RETURNABLE.**

## CUSTOMER INFORMATION:

Date: \_\_\_\_\_ Distributor PO#: \_\_\_\_\_

Contact: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

## PROXIMITY CARD/FOB SPECIFICATIONS:

Credential Type:  PRX-C  PRX-C-ISO  PRX-FOB

Quantity: \_\_\_\_\_

Facility Code (2 - 254): \_\_\_\_\_

First Internal (programmed)  
Card Number (00001 - 65534): \_\_\_\_\_

First External Card Number: \_\_\_\_\_

or No External Card Number, check box:

Signature: \_\_\_\_\_

### Quick Definitions:

**Facility Code:** A 3-digit number that each proximity card contains in order to provide greater security. Usually the cards used at a given building all have the same facility code.

**Internal Card Number:** A 5-digit number that each proximity card contains. This number must be programmed in the card/Fob by Viking Electronics.

**External Card Number:** The number that is printed on a label and placed on the back side of each proximity card/Fob.

Fill out entire form,  
scan and email to:  
[orders@vikingelectronics.com](mailto:orders@vikingelectronics.com)  
or fax to: 715-386-4344

*(Internal Use Only)*

File Name: \_\_\_\_\_

Notes: \_\_\_\_\_

Due to the dynamic nature of the product design, the information contained in this document is subject to change without notice. Viking Electronics, and its affiliates and/or subsidiaries assume no responsibility for errors and omissions contained in this information. Revisions of this document or new editions of it may be issued to incorporate such changes.