RADIO KEY® RK-XRM/XRS Proximity Reader with RS-485 Interface For Host-Validated Systems with DYNASCAN® TECHNOLOGY



RK-XRS

Radio Key[®] RK-XRM and RK-XRS are proximity card readers that tap the potential of RS-485 communications. Up to 100 units can be connected via RS-485 to a PC for a host-validated system. When a proximity card is placed close to the reader, that card's ID number is sent in ASCII format to the host. The card ID can be up to 64 bits, allowing for a virtually unlimited number of cards.

RK-XRM and RK-XRS are designed to work with custom software applications developed by original equipment manufacturers and systems integrators. Access control, fuel management, data retrieval and many other RFID applications are possible. An evaluation kit, complete with demonstration software, is available to those who would like to explore the product's capabilities. For software developers who wish to write an application, an API license is also available.

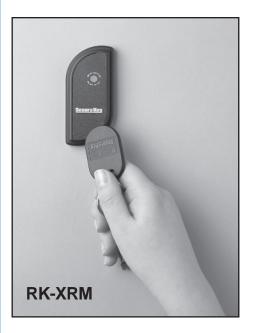
The RK-XRM and RK-XRS have two user-configured general purpose inputs and a bi-color LED (Red and Green). A solid-state relay is also provided. If so programmed, this relay can either open or close a circuit upon receiving a command from the host PC. The relay is rated at 1 Amp and 60 VAC/VDC. Card IDs, input signals, relay commands and LED operation for all readers are communicated over a common pair of wires.

Installation of the readers is very easy. Two screws mount the RK-XRM to a mullion, masonry wall, post or almost any surface. The RK-XRS can also be mounted to a single-gang electrical box. The readers are fully potted for extreme weather-resistance. Patented Dynascan®* technology tunes the reader to the environment for maximum performance at all times.



 RS-485 MULTI-DROP COMMUNICATIONS

- ON-BOARD
 SOLID-STATE RELAY
- VERY INEXPENSIVE
- UPTO 6" READ DISTANCE
- PATENTED DYNASCAN®* TECHNOLOGY
- UPTO 100 READERS PER 2-WIRE BUS
- MULLION AND
 SWITCHPLATE HOUSINGS



Specifications subject to change without notice © COPYRIGHT 2005 6212

RADIO KEY_® XRM / XRS - SPECIFICATIONS

All dimensions in drawings are indicated in inches.

Width 1.60"(Height 3.50"(K→ 3. 20→1→1.84 K- Mounting Plat Mounting Plat Mounting Plat Image: Second stress Image: Second stress M RK-XRS Model RK-XRS 0.84" (2.13 4.06 cm) 3.20" (8.12 8.89 cm) 4.50" (11.4 (81.65 gm) 6.67 oz. (18 Lexan® Beige	Key Tag Model RKKT-01 Molded Ca Model RKCW Key Tag Model RKKT-01 Molded Ca Model RKCW Scm) 0.20" (0.50 cm) 0.065" (0 2.125" (5 3.375"	Image able Card 1.7 cm) 0.033" .40 cm) 2.125" .57 cm) 3.375"
POWER REQUIREMENTS	5-14 VDC, 120 mA Maxin	num	READER CONNECTION
OUTPUTS	SPST Solid State Relay, 1 Normally open or normally	A max. @60 VAC or DC y closed (configured by host)	WIRE COLOR DESCRIPTION BROWN GROUND BROWN-WHITE VCC
INPUTS	Two general purpose inpu	its (configured by host)	ORANGE DATA-B ORANGE-WHITE DATA-A
DATA INPUT/OUTPUT	RS-485, ASCII format		GREEN INPUT 2
ENVIRONMENT	Proximity Reader and C Ambient Temperature Humidity	Card/Key Tag -40° to +70°C (-40° to +158°F) 0 to 95% non-condensing	GREEN-WHITE INPUT 1 BLUE RELAY BLUE-WHITE RELAY * Connect to GROUND to activate.
OPERATIONAL	Reading Distance User Capacity Card/Key Tag Operation Transmit Frequency Host Settings Relay Timer LED Control Maximum Wire Distance	Molded Card: Up to 6" (15.24 cm); Key Tag & Up to 64 bits, (over 4 billion) Passive 125 kHz Non-Volatile 1 to 4,080 seconds, managed by host. Bi-Color (Red/Green) managed by host. RS-485 up to 4,000 feet.	
OPTIONAL ACCESSORIES	RK-XR DEMO KIT SK-API-XR NET-CONV-P	Two readers, one RS-232 to RS-485 conve software and sample cards, for product eva Software Developer's Kit, including commu application and documentation. One year Optical RS-232 to RS-485 converter. Can RS-485 bus to the serial COM port on a PC	aluation. unications DLL, sample of updates are included. be used to connect an

This product complies with UL 294 Standards, with Part 15, Class B FCC Rules and meets R&TTE Requirements (European Standards). €1680

WARRANTY (U.S. and Canadian)

"This product is warranted against defects in materials and workmanship for a period of 2 years from the date of purchase. Secura Key shall, at its option, either replace or repair this product, if returned to us freight prepaid within the warranty period. This warranty does not include freight, taxes, duties, or installation expenses. THE WARRANTY SET FORTH ABOVE IS EXCLUSIVE AND NO OTHER WARRANTY, WHETHER WRITTEN OR ORAL, IS EXPRESSED OR IMPLIED. SECURA KEY SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. The remedies provided herein are the buyers' sole and exclusive remedies. In no event shall Secura Key be liable for direct, indirect, special, incidental or consequential damages (including loss of profits), whether based on contract, tort or any other legal theory." Contact Secura Key for Export Warranty Policy.

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20301 NORDHOFF STREET CHATSWORTH, CA 91311 PHONE (818) 882-0020 • FAX (818) 882-7052 TOLL-FREE (800) 891-0020 Website: www.securakey.com E-mail: mail@securakey.com

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