

# HandKey® CR

BIOMETRIC ACCESS CONTROL READER



## Take a hands-on approach to your access control!

- ▶ **Reliable field-proven technology**
- ▶ **Provides the ultimate level of security**
- ▶ **Fast and easy to use**
- ▶ **Engineered to work with card access systems**

Bring the security and convenience of biometrics to your access control system with the HandKey CR. Using Recognition Systems, Inc's field proven hand geometry technology, the user's identity is verified by the unique size and shape of their hand, all in less than a second.

Biometric systems offer superior security because they provide a nontransferable means of identifying people, not just a card or PIN. This level of assurance was once reserved for high security applications, but the HandKey CR changes that. Its low cost and awesome performance make it a perfect fit for one door or an entire facility.

Doesn't your computer room, lab, stock room or records area demand a higher level of security when compared to the

rest of the facility?

The HandKey CR is specifically engineered to work with card based systems and can be easily added to your existing or new access control system at the points you need it most.

**High tech doesn't have to mean high risk.** Recognition Systems, Inc has been providing biometrics for access control since 1986. Tens of thousands of HandKeys are already installed serving applications that range from health clubs and computer rooms to laboratories and nuclear power plants. Its ease of use and reliability has made RSI's HandKey the biometric standard for the access control industry.



## Hand Geometry Technology

Our patented technology combined with years of access control experience have allowed us to engineer the HandKey CR to meet daily demands of access applications. RSI's hand geometry technology uses the unique size and the shape of the hand to verify a person's identity with unparalleled accuracy. No fingerprints or palm prints are used. Designed for everyday use, dirt, cuts and abrasions on the hand have no impact to our accuracy. Enrollment in the reader is fast, taking only 15 seconds.

The HandKey CR captures a three dimensional image of the hand using a 32,000 pixel image array. Over 90 measurements including the lengths, widths, thickness and surface area of the fingers and hand are taken. Our advanced algorithm determines the unique aspects of the hand and then generates a nine-byte hand template. This template is then stored and used for subsequent comparisons. The HandKey CR comes with internal memory to store up to 512 user templates. The memory can be expanded to accept 32,512 users.

## Engineered for easy integration

The HandKey CR is specifically designed to work in conjunction with card based access control systems. This makes adding biometric security to critical access points fast, simple and seamless for both new and existing systems. The unit's card reader port allows the use of a card for ID number input or use the integrated keypad. All major card technologies are supported including proximity, Wiegand, magnetic stripe and bar code.

The HandKey CR can communicate to access control systems in a variety of ways. It offers a card reader emulation mode that provides Wiegand protocol interface compatibility with all standard access systems. Additionally, RS422, RS485 and RS232 serial communications are supported. The serial port may be used to communicate directly with the access control system or to other HandKey CRs in the system.

To ensure system integrity, a tamper switch is built into the reader. Tamper alarms and other conditions such as verification refused, lock out and duress can be monitored by the panel directly or through one of the HandKey CR's two auxiliary outputs.

*Check with your access control system supplier for integration details.*

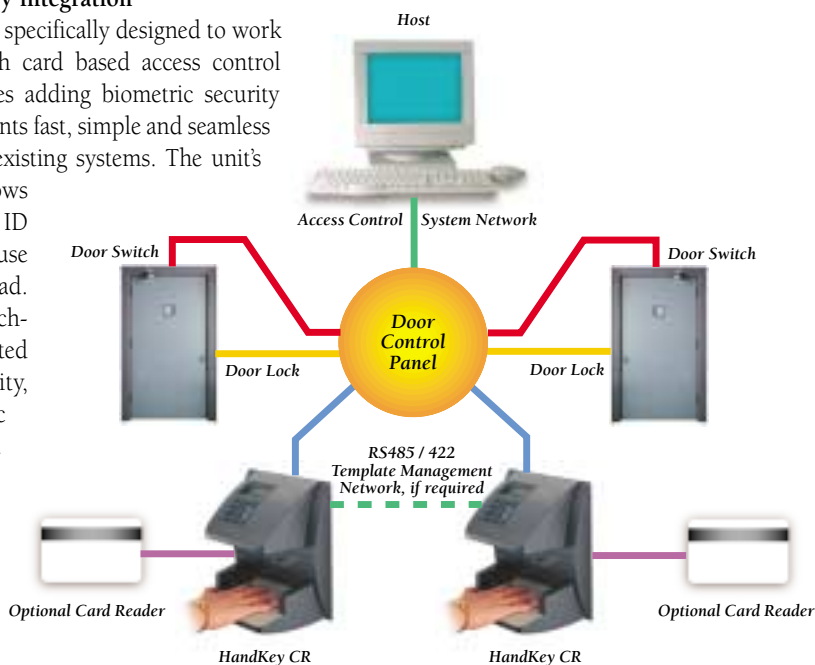
## Automatic Hand Template Management

When multiple HandKey CRs are linked together via RS485/422, the unit's built in template management system can be used to distribute hand templates to other hand readers in the network. This allows users to enroll at one reader and then use of other hand readers in the system without re-enrollment. The system wide removal of a user is also simplified and can be accomplished by issuing the remove command from a single reader.



## SPECIFICATIONS

<b>Part Number</b>	HK-CR
<b>Size</b>	8.85 in. (22.3 cm.) wide 11.65 in. (29.6cm) high 8.55 in. (21.7 cm.) deep
<b>Weight</b>	6lbs (2.7kg)
<b>Verification Time</b>	Less than 1 second
<b>Template Size</b>	9 bytes
<b>Power</b>	12-24 VDC or VAC
<b>ID number</b>	1 to 10 digits from keypad or card reader
<b>User Capacity</b>	512 users standard Internally expandable to 32,512
<b>Card Reader Input</b>	Standard format Wiegand / proximity: 26 bit (8 bit facility code) Optional formats for Wiegand, proximity, magnetic stripe and bar code available
<b>Card Reader Emulation</b>	Standard format Wiegand / proximity: 26 bit (8 bit facility code) Optional formats for Wiegand, proximity, magnetic stripe and bar code available
<b>Auxiliary Outputs</b>	Two Outputs available both sink 0-24 VDC, 100mA max. Outputs may be activated by: Tamper, Try Again, ID Lockout, Duress Code Entered, F1 Key Pressed, F2 Key Pressed, Battery Backup On
<b>Communications</b>	RS-485 (4 wire and 2 wire) RS-232
<b>Baud Rate</b>	1200 to 28.8K bps
<b>Options</b>	BB-200 Operational Battery Backup MD-500 High Speed Internal Modem EN-200 Ethernet Module EM-801 Memory Expansion 9,728 users EM-803 Memory Expansion 32,512 users DC-102 Data Converter KP-201 Auxillary Keypad PROX HID Proximity Reader



Specifications subject to change  
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