

Recognition Systems

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VON DUPRIN

RECOGNITION
SYSTEMS

LOCKNETICS

LOCKNETICS
ON BOARD

Recognition Systems



Here's the key that can't be copied, lost or stolen.



 **HandKey**
*The hand becomes
the key to entry.*

HandKey® is the reliable, cost-effective biometric alternative to outdated access control systems.

By measuring the unique shape of a user's hand, the HandKey HandReader ensures that only authorized personnel are allowed to enter your secured area. It's quick, convenient and flexible.

As a replacement for card and key based systems, HandKeys eliminate the expense of issuing and managing cards or keys. HandKeys may also be used in conjunction with cards to increase security and ease of use. With HandKey, you also have the peace of mind of knowing you've

chosen the biometric system that's already proven its reliability in the real world. To learn more, visit www.TURNSTILES.us or call (303) 670-1099.



HANDKEY® II

The no-compromise security solution is at hand.

Recognition Systems, Inc. brings the true security and convenience of biometric technology easily within reach of most access control applications. The HandKey II utilizes field-proven hand geometry technology that maps and verifies the size and shape of a person's hand all in less than one second.

The benefits of biometric security were once reserved for high-security applications, but the HandKey II changes that. Tens of thousands of HandKeys are already installed in applications that range from health clubs and day care centers to laboratories and prisons. Its ease of use and reliability have made the HandKey the biometric standard for the access control industry. The lower cost of the HandKey II now makes the choice even easier.

Real security at a reasonable price

The HandKey II provides the security and convenience you need at a price you can afford, even when compared to card-based systems. Because your hand is your card, HandKey II allows access only to authorized people without the hassles of a card or key. By eliminating cards, you reduce administrative costs while greatly increasing the level of security. Users appreciate the convenience of never worrying about keeping track of a card or key.

- REAL security
- Saves money over card-based systems
- Fast and easy to use
- Increases convenience by eliminating cards
- Integrates into existing systems
- Field proven reliable technology

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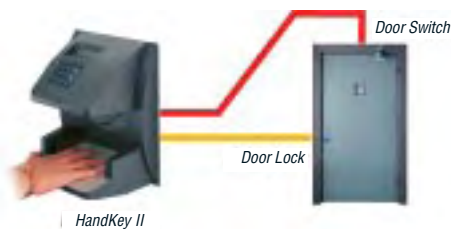
Recognition Systems

HandKey® II Access Control Reader

SPECIFICATIONS

Part Number	HK-2
Size	8.85 in. (22.3 cm) wide, 11.65 in. (29.6 cm) high, 8.55 in. (21.7 cm) deep
Weight	6 lbs. (2.7 kg)
Verification Time	Less than one second
Template Size	9 bytes
Power	12-24 VDC or VAC
Memory Retention	Up to 5 years via the standard internal lithium battery.
I.D. Number	1 to 10 digits from keypad or card reader
Transaction Storage	5120 transactions, buffered
Communications	RS-485 (4 wire and 2 wire), RS-232 Serial Printer Support or network communications
Baud Rate	1200 to 28.8K bps
User Capacity	512 Users standard Internally expandable to 32,512
Door Controls	Door Lock Output, Sinks 0-24VDC, 100mA max. Alarm Monitoring Tamper, Door Switch, Two Auxiliary Inputs Three Auxiliary Outputs, Sinks 0-24VDC, 100mA max. Request for Exit Switch or Keypad
Card Reader Input	Proximity, Wiegand, magnetic stripe, or barcode
Card Reader Emulation Output	Wiegand, magnetic stripe, or barcode
Duress Code	1 digit, user definable
Time Zones	62 user-definable time zones Unlimited holidays
Selected Options	BB-200 Operational Battery Backup MD-500 High Speed Internal Modem EN-200 Ethernet Communications Module EM-801 Memory Expansion to 9,728 Users EM-803 Memory Expansion to 32,512 Users DC-102 Data Converter KP-201 Auxiliary Keypad PROX HID Proximity Reader

HandKey® is a registered trademark of Recognition Systems, Inc.
Windows® is a registered trademark of Microsoft Corp.



Stand-alone operation lets you provide true security to a single door at an affordable price.

HANDKEY® II

DOOR CONTROL AND MONITORING

The HandKey II's design provides the ultimate in system reliability. Each HandKey II is a complete door controller providing door lock operation, request for exit, and alarm monitoring. All information, including biometric data and decision-making capability resides locally. This ensures your doors are secure and will continue to operate properly even if all communications to the main access control computer are lost.

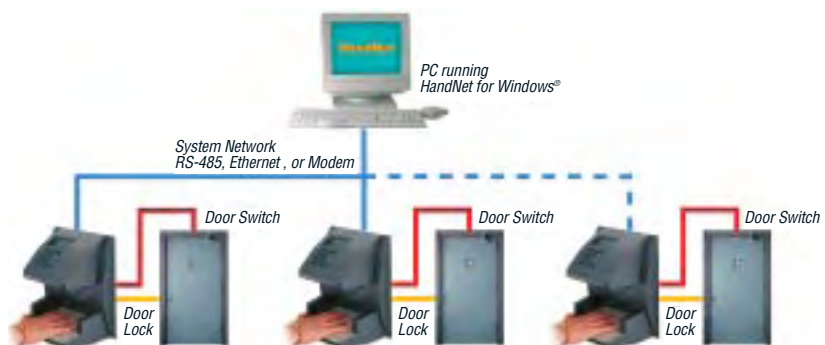
Features of the HandKey II include:

- Door operation and monitoring
- Card reader input
- Request for exit
- Tamper switch
- Memory expansion from 512 (standard) to 32,512 users
- RS-232 printer output
- Stand-alone or networked operation
- Card reader emulation mode
- Integrated wall mount design
- Multiple auxiliary inputs and outputs
- 62 user-definable time zones
- Outdoor version available
- Optional modem or Ethernet module

STAND-ALONE OR FULLY INTEGRATED

Systems can be as simple as one unit on the computer room door to hundreds of units networked together. The HandKey II's card reader emulation mode makes adding it to existing access control systems fast and easy. A variety of communications options, including dial-up modems and Ethernet, allows you to design a system that's right for your facilities.

In a network, (see diagram below) RSI's HandNet for Windows® software links a virtually unlimited number of HandKey units into an integrated door access control system. All alarms and transactions report back in real time to the central computer, making door and alarm monitoring easy and efficient. Activity, user, and system reports can be easily generated. The central computer handles all hand template management automatically, allowing supervised enrollment at any reader and system-wide deletions. An optional internal modem lets you include remote site operations. Ethernet communication is also available.



HandKey CM HandReader

GET NETWORK BENEFITS IN A STAND-ALONE SYSTEM.

Recognition Systems' HandKey® CM HandReader provides an easy, economical and convenient way to manage multiple access points and multiple users and collect an audit trail without expensive network wiring. The HandKey CM is a stand-alone door controller that can be programmed with LockLink™ or LockLink Express access control management software. It allows users to download information directly to and from the HandReader using a personal digital assistant (PDA) running Windows CE.



HandKey CM

BENEFITS

- Network benefits without network wiring
- Fits seamlessly into existing Locknetics On Board sites
- Audit trails
- Access profiles
- Time zones
- Alarm outputs

STANDARD FEATURES

- LockLink programming interface or programmable through keypad
- 512-user memory
- Expandable to 1,000 users
- Door operation and monitoring
- Card reader input
- Tamper switch
- Integrated wall mount design
- Easily upgraded to networking model

HOW IT WORKS

Biometrics identify people by a unique human characteristic. Hand geometry uses the size and shape of the hand to verify a user's identity. Users enter their unique ID either through the keypad or with a card and present their hand for verification. The HandReader records 96 measurements of the hand including length, width and height of the fingers. The measurements are converted by mathematical algorithm into a 9-byte template that is compared with the previously captured template. The device does not use palm or finger prints, and verification time is less than a second.

Tens of thousands of RSI HandReaders are used all over the world in a host of applications that range from health clubs and day care centers to laboratories and airports. By verifying the identity of the individual rather than just the cards, Recognition Systems HandReaders ensure that only those persons who are authorized gain access. In addition, since your hand is your key, the need for cards can be totally eliminated by entering an ID number in the integrated keypad. Therefore, the costly management of card systems, including lost or stolen cards, is nonexistent.

POWER SUPPLY AND BATTERY BACKUP

Battery backup can be housed locally in the HandKey CM (BB-200) and power can be provided through a wall outlet power supply (PS-110), both of which are available from Recognition Systems.

Alternatively, Locknetics 510 and 515 power supplies can provide power and battery backup for both the HandReader and the locking components, yielding a more elegant, cost-effective system solution. Select the Locknetics power supply that provides sufficient output current for all connected components. The HandKey CM uses 0.4 amps at 12 volts or 0.2 amps at 24 volts.

Specifically designed for use with the HandKey CM, the Wiegand Control Module (WCM) can further enhance security by placing all door controls on the secure side of the door. An encrypted signal containing door control information is passed from the HandKey CM to the WCM. The WCM is a plug-in PC card, featuring independent programmable relays for both door lock and door switch. The WCM is available from Locknetics for the 510 and 515 power supplies.

The HandKey CM has two programmable outputs that can be used to trigger a secondary device, such as a horn or camera. Wiring is made simple with a Locknetics Dual Control Module (DCM) or Relay Control Module (RCM) located within the power supply cabinet.

Recognition Systems

Outdoor HandReader Enclosures

Recognition Systems provides a full line of enclosures to protect your HandReader from the elements. Three different, proven solutions are available to ensure your HandReader performs and keeps performing regardless of your environment.



BLIZZARD

Ideally suited for the coldest climates and industrial environments, the Blizzard enclosure is constructed of heavy-gauge zinc-coated steel and features a weather-sealed keypad, low-temperature display and heated interior. Even though it protects from incident rain and weather, the unit should be mounted under an enclosure or awning. The Blizzard enclosure is a fully integrated unit and comes complete with HandReader and internal heater.



HURRICANE

A little rain never hurt anyone, and a lot of rain won't hurt the Hurricane enclosure. Constructed from high-impact ABS plastic, the unit is designed for direct weather. A generous lid offers protection from driving rain, and the contoured design facilitates water runoff. The Hurricane has been designed so it can be added to an existing installation. When used with a heater-equipped HandReader (INT-HTR option), it provides the ultimate solution for cold weather, direct exposure environments.



TSUNAMI

For the harshest environments, the Tsunami enclosure is water sealed and built to NEMA type 4 standards. The HandReader is protected from both splashing and hose-directed water, making it an ideal solution for industrial and food processing areas where hose-directed water is used for cleaning. In addition, when used with a heater-equipped HandReader (INT-HTR option), the Tsunami enclosure can withstand the bleakest of environments.

THE INTEGRATED HEATER (INT-HTR OPTION)

The INT-HTR option includes an integrated heating element, a 24v power supply and an extended range LCD. The temperature-regulated heater element is built into the platen, where users place their hand, providing comfortable and trouble-free use even in the coldest environments. The heater is built directly into the HandReader. Therefore, it must be ordered at the same time the HandReader is ordered and is not field retrofittable.

Although intended primarily for use with an enclosure, the INT-HTR option may be used in cooler environments where an enclosure is not required, such as an unheated warehouse.

SPECIFICATIONS:

	Blizzard	Hurricane*	Tsunami*
Temperature Range	-35F to 120F -37C to 49C	-20F to 120F -29C to 49C	-45F to 120F -43C to 49C
Environment	Indirect exposure to rain and snow. Best suited for extreme cold and potential vandalism prone areas.	Provides significant protection from rain, sleet, snow, splashing water, falling dirt and windblown dust.	Provides complete protection against rain, sleet, snow, splashing water, hose-directed water, falling dirt and wind blown dust when the door is closed.
Dimensions H x W x D	10.0 in. x 10.0 in. x 10.0 in. 25.4 cm x 25.4 cm x 25.4 cm	14.0 in. x 12.0 in. x 10.5 in. 58.5 cm x 35.6 cm x 29.3 cm	23.0 in. x 14.0 in. x 11.5 in. 58.5 cm x 35.6 cm x 29.3 cm
Gross Weight (including Reader)	23.0 lbs 10.5 kg	11.5 lbs 5.3 kg	45.0 lbs 20.5 kg
HandReader	HandKey HandPunch	HandPunch 1000, 2000, 3000, 4000, HandKey II, CR and CM	HandPunch 1000, 2000, 3000, 4000, HandKey II, CR and CM

* with INT-HTR option

HandNet for Windows® version 2.0 Access Control System

NEW FEATURES

Temporary users

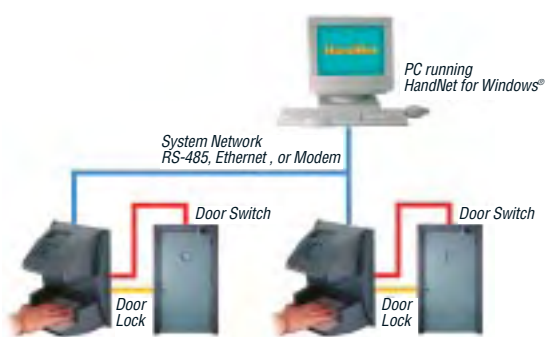
When new users are enrolled in the system, they can be assigned access to specific readers with definable time zones through an unlimited number of access profiles. HandNet 2.0 also has a start and end date for access, so temporary users like consultants or guests can be granted access for a few days, weeks or months. The system then automatically disables access rights at the end of the term. Users can be reactivated in the software so there is no need to re-enroll.

Remote Enrollment

Many installations use an enrollment reader to input new users in the system. The new Remote Enrollment feature enables a reader to be controlled from the software so a guard behind a glass partition or a supervisor in a distant office can enroll new users without physically going to the HandKey.

Import/Export of users

The new import/export feature enables sharing of user information among different HandNet installations. For example, the security officer in New York can send a users record to the office in Taipei. The office in Taipei can then add the user to their system, setting their own access restriction. When the user arrives he will be in the system and there is no need to enroll.



- Complete door access and monitoring
- Automatic hand template management
- Real time monitoring or audit trail mode
- Easy setup and administration

Windows® is a registered trademark of Microsoft Corp.

FEATURES

Monitor over 1000 HandKey units in real time

Hard-wired communications operate via RS422, using up to 38 serial ports. Dial-up modem and Ethernet connections are also supported.

Manage over 100,000 users

Add, remove and track users from a central PC. Up to 25 user-definable text fields may be specified for each user, in addition to standard fields such as name, ID number, access profile, authority level, and rejection threshold. The user window helps you keep track of people by displaying the last reader used, with date and time of use.

Automatic hand template management

Enroll users at any HandKey in the system. Hand template data from the enrolling HandKey is automatically backed up on the PC and distributed to selected doors in the system, as specified. Dial-up remote modem locations are also updated automatically when a new user enrolls.

Complete door monitoring

HandNet provides complete door management. Among the conditions that can be monitored in real time are: door forced open, door open too long, duress, and multiple auxiliary input and output conditions. Authorized operators may override the lock condition at any door.

No dedicated PC required

HandNet can run in the background while other tasks are performed on the PC. When an alarm condition occurs, the user is notified immediately. If only an audit trail is required, the PC need not be always turned on, because each HandKey can buffer over 3,000 transactions.

Monitor multiple remote sites

HandNet allows you to dial up multiple remote sites automatically, following a user-definable schedule. Assigning a name to each reader and site allows instant identification of the location of each HandKey.

Access restrictions

HandNet provides complete access control by user ID, time, and location. The access profile wizard makes it easy to restrict time and location. HandNet supports 60 definable time zones, with four start and stop intervals per zone. An unlimited number of access profiles can be defined. The holiday table can maintain an unlimited number of entries.

Easy maintenance

Automatic transaction archiving minimizes maintenance headaches. You can define the archiving process based on file size, days elapsed, or the day of the month.

Customizable activity reports

Activity reports can be defined and saved, showing only the data you need. The data source can be either current transactions or archived data.

Simplified activity monitoring

HandNet lets you define filtered activity screens that display only activities for the sites, readers, or users you specify. Each of these screens are easily accessible through a tabbed display system. A predefined alarm activity screen makes alarm acknowledgment as simple as a couple of clicks of the mouse.



Recognition Systems

HandPunch® 3000/4000 Time and Attendance Terminal



HANDPUNCH® 3000

PUT YOUR HANDS ON THE ACCURATE, AFFORDABLE SOLUTION.

Smarter than card-based terminals

- Verifies employees' identities in less than one second, based on the unique size and shape of their hands.
- Clearly notifies each user of a match using red and green indicator lights.
- Reduces time theft and improves payroll accuracy.

Versatile and programmable

- Definable data management keys allow data collection when employees punch.
- Transmits data to the time and attendance host PC through a variety of methods including direct wiring, modem, and Ethernet.
- The HandPunch 3000 also has the ability to control a door.

HAND GEOMETRY TECHNOLOGY.

- The terminal captures a three-dimensional image of the hand each time the employee punches. The hand's size and shape are used to verify their identity with unparalleled accuracy.
- Green and red lights notify the employee of the status of each punch.

Programmable data management keys

- Common uses include department transfers, tips collected, job codes, or pay codes.

Communication options

- Multiple terminals can be networked together at a site via RS-485 wiring.
- An optional Ethernet communications module or dial up modem are also available.

Edit-at-the-clock functions

- Allows supervisors to override user restrictions and to input such items as missed punches, planned vacations, and sick time at the terminal. This password-protected mode provides greater supervisor flexibility by lessening the need for computer edits. Audit trails documenting the use of these functions are generated to ensure security.



HANDPUNCH® 4000

FULL FUNCTION TIME AND ATTENDANCE.

- Brings the flexibility of a full function time and attendance terminal together with the sophistication of the most accurate verification technology available.
- Uses the size and shape of your employees' hands to verify their identity each time they punch. No fingerprints or palm prints are utilized.

A cost-saving, easy-to-use solution

- The system ensures payroll accuracy by simply requiring each employee to be there to punch.
- An employee's identity is verified in less than one second.

An important HR communication tool

- Lets you tailor the system to meet your precise needs. The system provides the ability to send messages to employees when they punch.
- Employees can view up to 24 information fields to find out about their schedule, total hours worked, and more.

HANDPUNCH 3000 AND HANDPUNCH 4000.

Bell schedules

- Lets you program the day, time, and duration of a series of bells.
- Can be programmed to signal the beginning or end of a shift, lunch, or break.

Door control

- Provides the capability to unlock and monitor a door. Global time zones may be used to restrict employee access.

Note: Some time and attendance software packages may not have implemented all of these features in their system software. Please check with your system vendor for details.

