

HandKey™

Hand Geometry Readers



The HandKey reader by Recognition Systems, Inc. utilizes field-proven hand geometry technology that maps and verifies the size and shape of a person's hand in less than one second.

The HandKey captures a three dimensional image of the hand using a 32,000 pixel image array. 90 measurements, including the lengths, widths, thickness and surface area of the fingers and hand are taken. An 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. Dirt, cuts and abrasions on the hand have no impact on accuracy.

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 HandKey CR without integrated card reader and the HandKey CR with HID

proximity can store up to 512 cardholder templates in the unit. The HandKey CR with an integrated OmniClass/iCLASS reader stores cardholder templates on their cards, protecting cardholder privacy and eliminating the need to store and update cardholder databases in individual HandKey CR readers. The storage of the template on the card allows the reader to support an unlimited number of cardholders.

The HandKey II provides the security and convenience you need at a price you can afford, even when compared to cardbased 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.

FEATURES

- When multiple HandKey units are linked together via RS-485 or Ethernet, the unit's built-in template management system can be used to distribute hand imprints to other hand readers in the network. This allows users to enroll at one reader and then use other readers in the system without re-enrollment.
- Integrated wall-mount design
- Flexible storage of template on OmniClass/iCLASS cards eliminates need to maintain databases in individual readers
- Card readers support 26-bit Wiegand with other data formats available
- Integrates into existing systems
- 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's two auxiliary outputs.

HandKey™

Hand Geometry Readers

SPECIFICATIONS

	HandKey CR HG-4	HandKey CR HG4-PROX	HandKey CR HG4ICLASS	HandKey II HG4-II
Description	This reader stores templates for up to 512 users in the unit.	This reader stores templates for up to 512 users in the unit and reads HID prox cards.	This reader stores templates on an OmniClass/iCLASS smart card.	This is a standalone unit for up to 512 users with 2 auxiliary and a door egress input, 3 auxiliary outputs.
Dimensions	11.65" H x 8.85" W x 8.55" D (29.6cm H x 22.3cm W x 21.7cm D)			
Max. Read Range¹	N/A	2"	Card sits in holder	N/A
Cable Distance to Host (Wiegand)	500' (152m) max			
Compatible Cards		HID proximity	OmniClass / iCLASS	
Number of Templates	512	512	Unlimited	512
Template Size	9 bytes			
Enrollment Time	< 15 sec			
Equal Error Rate (EER)	0.1%			
False Acceptance Rate	0.1%			
False Rejection Rate	0.1%			
Custom Features	FTE of 1 in 10,000			
Verification Time	less than 1 second			
Regulatory Approvals	FCC, CE, UL 294			
Operating Temperature	32° to 113° F (0° to 45° C)			
Operating Humidity	20 - 80% relative humidity			
Operating Voltage Range	12 to 24VDC			
Current (@12VDC)	170ma	200ma	200ma	170ma
Tamper	Built-in tamper switch			
Communications	RS-485, RS-422 or Ethernet			
Output Interfaces	Wiegand			BR-100 relay
Warranty²	1 year			

¹ Actual operating distance will vary depending upon installation environment and proximity to metal.

² See Honeywell Systems Group's Sales Policy for complete warranty details.

ORDERING

HG-4	HandKey CR Hand Geometry Reader that stores 512 user templates
HG4-PROX	HandKey CR Hand Geometry Reader that stores 512 user templates and reads HID Prox cards
HG4ICLASS	HandKey CR Hand Geometry Reader that stores user templates on OmniClass/iCLASS card
HG4-II	HandKey II Hand Geometry Reader that stores 512 user templates for standalone use
HGEN200	Ethernet Module
HGDC104	RS-232 to RS-485 Interface with 120V Power Supply
HGHNR5	Handnet for Windows, 5 Reader Licenses
HGHNR25	Handnet for Windows, 25 Reader Licenses
HGHNRUNL	Handnet for Windows, Unlimited Reader Licenses
HG4-EM801	Memory Expansion for software key for HG-4 and HG4-II units built after 2003, supports up to 9,728 users
HG4-EM-800	Memory Expansion EEPROM chip for HG-4 and HG4-II, supports up to 9,728 users
HG4-EM-803	Memory Expansion EEPROM chip for HG-4 and HG4-II, supports up to 32,512 users
HG4ENC1	Hurricane Outdoor Enclosure with temperature range of -20° to 120° F (-29° to 49° C) when using internal heater option Dimensions: 14" H x 12" W x 10.5" D (35.6cm H x 30.5cm W x 26.7cm D)

For more information: www.honeywellaccess.com

Honeywell Systems Group

135 W. Forest Hill Avenue
Oak Creek, WI 53154
414-766-1700
414-766-1798 Fax

European Office

Böblinger Straße 17
D-71101 Schönaich
Germany
49-7031-637-782
49-7031-637-769 Fax
www.honeywell.com

Honeywell

7-501172 revA
October 2005
©2005 Honeywell International Inc.