

# iCLASS<sup>®</sup>

13.56 MHz Read/Write Contactless Smart Card Technology



Smart • Powerful • Trusted



# iCLASS

SMART • POWERFUL • TRUSTED

HID, the global leader in proximity access control, is proud to introduce *iCLASS*! Optimized to make physical access control more powerful, *iCLASS* is a 13.56 MHz read/write contactless smart card technology. Use *iCLASS* to store biometric templates and useful data. Implement new applications at any time without issuing new credentials. Experience just how powerful and cost-effective *iCLASS* can be!

## Be secure in knowing:

*iCLASS* meets industry standards, making it possible for equipment and application developers to create a broad range of uses for the card. The ISO standards include:

- 15693 - read/write; 2K bits (256 Bytes) and 16K bits (2K Bytes) *iCLASS* credentials
- 14443A - read only; MIFARE® (serial number)
- 14443B2 - read/write; 16K bits (2K Bytes) *iCLASS* credentials

## Experience enhanced versatility:

- Use one reader to read standard proximity format data from HID *iCLASS* credentials, or unique serial numbers from MIFARE cards.
- Confidently install the reader! The Wiegand output easily interfaces with most existing Wiegand protocol access control panels. Use the bi-directional RS-232 serial port to connect to a PC or microcontroller for read/write applications.

## Appreciate advanced security:

- All RF data transmission between the card and reader is encrypted using a secure algorithm.
- Industry-standard encryption techniques and advanced key management systems reduce the risk of compromised data or duplicated cards.

Visit the *iCLASS* website at [www.hidcorp.com/iclass](http://www.hidcorp.com/iclass) or see the *iCLASS Reference Guide*.



Access Control



HVAC Automation & Billing



Time & Attendance



Medical Records



One Credential



Multi-Authentication Access  
Store Biometric Templates On Your Card!

Endless Possibilities

# TRUSTED

**YOUR  
APPLICATION  
WITH  
iCLASS**

Need read/write technology to manage multiple applications in your organization?

Use the **Software Developer's Kit** to unlock the power of *iCLASS*!

Secure  
Authentication

ential

Digital Cash & Vending

Photo ID

ssibilities

Parking Control

Mobile Verification  
& Guard Tour

# HID

HID is the leading manufacturer of contactless readers and cards for the access control market. Why trust anyone else with your contactless smart card needs? Partner with HID to realize the potential of *iCLASS*!

**HID Provides You With:**

- An organization that is friendly and easy to do business with!
- Global sales, customer service, and technical support.
- Multilingual brochures, installation manuals, and websites.
- Lifetime product warranties!
- Cost-effective solutions to help maximize investments in existing systems while providing a migration path to new applications and technology platforms.
- Access to third-party hardware and software to support use of your single credential for multiple read/write applications throughout the organization.
- Advanced technology to meet the need for increased security and use of new applications.

**From proximity to 13.56 MHz read/write contactless smart cards, use the Trusted Brand!**

## R10 Reader

Base Model #6100

- Wiegand Output
- Mullion Mount
- Dimensions: 1.90" x 4.04" x .80" (4.83 cm x 10.26 cm x 2.03 cm)
- Read Range: 1" - 3" (2.5 cm - 7.5 cm)

## R30 Reader

Base Model #6110

- Wiegand Output
- EU/Asian Back Box Size
- Dimensions: 3.30" x 3.30" x .75" (8.38 cm x 8.38 cm x 1.91 cm)
- Read Range: 1" - 3" (2.5 cm - 7.5 cm)

## R40 Reader

Base Model #6120

- Wiegand Output
- U.S./EU/Asian Back Box Size
- Dimensions: 3.30" x 4.80" x .85" (8.38 cm x 12.19 cm x 2.16 cm)
- Read Range: 1" - 4.5" (2.5 cm - 11.5 cm)

## RW300 Reader/Writer

Base Model #6111

- Wiegand Output and Bi-Directional RS-232 Serial Port
- EU/Asian Back Box Size
- Dimensions: 3.30" x 3.30" x .75" (8.38 cm x 8.38 cm x 1.91 cm)
- Read Range: 1" - 3" (2.5 cm - 7.5 cm)

## RW400 Reader/Writer

Base Model #6121

- Wiegand Output and Bi-Directional RS-232 Serial Port
- U.S./EU/Asian Back Box Size
- Dimensions: 3.30" x 4.80" x .85" (8.38 cm x 12.19 cm x 2.16 cm)
- Read Range: 1" - 4.5" (2.5 cm - 11.5 cm)

## RK40 Reader and RWK400 Reader/Writer

Base Model #6130, 6131

- Wiegand Output on both and Bi-Directional RS-232/RS-485 Serial Port on RWK400
- U.S./EU/Asian Back Box Size
- Dimensions: 3.30" x 4.80" x .90" (8.38 cm x 12.19 cm x 2.286 cm)
- Read Range: 1" - 4.5" (2.5 cm - 11.5 cm)

## iCLASS Card

Base Model #2000, 2001, 2002

- Add a magnetic stripe, barcode, anti-counterfeiting feature, custom artwork, or photo ID.

## iCLASS PROX

Base Model #2020, 2021, 2022

- 13.56 MHz contactless smart card and 125 kHz HID proximity in a single ISO standard thin card.

## iCLASS embeddable iCLASS PROX embeddable

Base Model #2010, 2011, 2012 and 2030, 2031, 2032

- 13.56 MHz contactless smart card with or without 125 kHz HID proximity and an optional contact smart chip module.

## iCLASS Wiegand

Base Model #2040, 2041, 2042

- 13.56 MHz contactless smart card and Wiegand technology
- A one-card solution combining *iCLASS* and Wiegand technologies.

## iCLASS Key

Base Model #2050, 2051, 2052

- Incorporates *iCLASS* contactless read/write technology into a convenient device approximately the size of an automotive key.

## iCLASS TAG

Base Model #2060, 2061, 2062

- Turn most existing cards, ID badges, mobile phones or PDAs into an *iCLASS* contactless smart card.

### All *iCLASS* Readers and Reader/Writers Include:

- Color Options: Black or Gray<sup>1</sup>
- Transmit Frequency: 13.56 MHz
- Selectable Output Type
- Standard Termination: 18" cable pigtail
- Programmable LED/Beeper Operation
- Compatible with all *iCLASS* Credentials

\*All read ranges shown are dependent upon installation conditions and the type of *iCLASS* credential used.

<sup>1</sup>Black only for RK40 and RWK400.

### Credentials:

- The *iCLASS* credential family includes the most popular form factors of cards, tags, and keys.
- Multi-technology credentials are offered: *iCLASS Prox* and *iCLASS Wiegand*.
- All *iCLASS* credentials are available in either 2k bit (256 Byte) with two application areas or 16k bit (2k Byte) with either two or sixteen application areas.

#### HID CORPORATION (AMERICAS & CORPORATE OFFICE)

9292 Jeronimo Road  
Irvine, CA 92618-1905  
U.S.A.  
Phone: (800) 237-7769  
Phone: +1 (949) 598-1600  
Fax: +1 (949) 598-1690

#### HID CORPORATION (ASIA PACIFIC)

19/F 625 King's Road  
North Point  
Island East  
Hong Kong  
Phone: +852 3160-9800  
Fax: +852 3160-4809

#### HID CORPORATION, LTD. (EUROPE, MIDDLE EAST & AFRICA)

Homefield Road  
Haverhill, Suffolk  
CB9 8QP  
England  
Phone: +44 (0) 1440 714 850  
Fax: +44 (0) 1440 714 840

[www.hidcorp.com/iclass](http://www.hidcorp.com/iclass)