iCLASS® 13.56 MHz contactless smart cards and readers make access control more powerful, more versatile and offer enhanced security through data encryption and mutual authentication between the card and reader.

iCLASS reader/writers are user-friendly, delivering the same convenience and reliability of HID’s world-renowned Prox technology, with state-of-the-art features, driven by the ever-evolving industry requirements.

Providing read/write capability, iCLASS is the platform of choice for custom applications. With HID iCLASS credential data storage capacities of 2k bit (256 Byte), 16k bit (2k Byte) or 32k bit (4k Byte), this reader line allows for secure bi-directional data exchange between card and reader by reading and writing user data to iCLASS cards. iCLASS-enabled read/write applications include biometric template storage, cashless vending, time and attendance, alarm system control, point of sale terminals and many more.

All readers units are equipped with a Wiegand output that easily interfaces with most existing access control panels. All RW’s are also equipped with bi-directional communications of RS232, RS485 (full-duplex), UART or USB to enable host controlled reader behavior. In addition, uni-directional communication of RS232, RS485 (full-duplex) or UART is enabled when the reader is running its own internal applications.

Key Features

- **Expansion Modularity** - Every RW (read/write) reader comes with an expansion socket that accepts RS232, RS485 or USB or direct UART communications. The readers can read or write to any application area on the iCLASS® credential, with all reader functions controlled by an external host processor via the selected serial interface using the iCLASS serial protocol.

- **Secure** - All RF data transmission between the card and reader is encrypted using a secure algorithm. By using industry-standard encryption techniques and advanced key management systems, iCLASS reduces the risk of compromised data or duplicated cards.

- **Interoperability** - iCLASS is based on international ISO interoperability standards providing compatibility with many popular card technologies (ISO 15693, ISO 14443A and ISO 14443B).

- **Optimal Read Range Performance** - An auto-tuning feature automatically adjusts the reader for optimal read range performance on any mounting surface.
Security
64-bit authentication keys are extremely secure. Readers and cards require matching keys to function. All RF data transmitted between the card and reader is encrypted, using a secure algorithm. The key management system reduces the risk of compromised data or duplicated cards. Key management is made easy! All cards are shipped with unique diversified keys, and readers are shipped with compatible keys. While cards and readers with Standard keys are interchangeable, the keys are highly secure. Cards can be made unique by ordering with iCLASS® Elite formatting.

Elite Custom Keys
Custom keys provide the highest level of security, where cards and readers are uniquely matched to individual sites or customers, and are non-interchangeable. Combining Elite custom keys with our Corp. 1000 can offer companies a scalable solution that can be implemented in facilities worldwide.

Easily Interfaced
The reader’s Wiegand output easily interfaces with most existing Wiegand and Clock & Data protocol access control panels. The same data is also replicated on the RS232 output line. The reader reads standard proximity format data from HID iCLASS cards and will output data as encoded. When reading ISO 14443A cards (MIFARE®/ DESFire®), the reader can be configured to output 26-bit, 32-bit (MIFARE), 32-bit (LSB), 34-bit, 40-bit or 56-bit Wiegand formats based on the CSN (card serial number).

Indoor/Outdoor Design
Rugged, weathered polycarbonate enclosure, designed to withstand harsh environments, provides reliable performance and resistance to vandalism.

Options
Colors – Black or Gray
Key Management – Standard or Custom
Selectable Output Type (for MIFARE cards)
Termination Options: 18’ Pigtails or Terminal Strip
Programmable LED/Beep operation
Accessory – Security Tool; 04-0001-03

HW100 Mullion Style Reader/Writer
4.8 cm x 10.3 cm x 2.3 cm
Mounting
The RW100 and RW150 are physically our smallest readers and are ideally suited for mullion-mounted door installations. U.S. single-gang J-box or any flat surface (Readers will not cover junction box).

Dimensions
1.9" x 4.0" x 0.9"
4.8 cm x 10.3 cm x 2.3 cm

Power Supply
5-16 VDC, Line supplied recommended

Current Requirements
***55mA AVG, 116 PEAK

Operating Temperature
-31º to 150º F (-35º to 65º C)

Transmit Frequency
13.56 MHz

Communications
Card Compatibility
Wiegand/Clock and Data Interface 500ft (150m) (22AWG), RS232 50ft (15m), RS485 4000ft (1220m), USB 16ft (4m), UART 1ft (0.30m)

Warranted against defects in materials and workmanship for life. (See complete warranty policy for details.)

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