



Zodiac *iClass*TM

FINGERPRINT VERIFICATION READER

*iClass*TM Smart Card Readers
for Non-Biometric Doors

*iCLASS*TM by HID

BioPatch
www.cansec.com

Cansec Systems Ltd.
Zodiac

Zodiac reads a Fingerprint Template
stored in a *iClass*TM contactless smart card or the
revolutionary stick-on BioPatch !

HIGHLIGHTS

- Template(s) stored in HID *iClass*TM contactless Smart Card or stick-on BioPatch
- Same *iClass*TM credential works on Zodiac and full range of *iClass*TM Readers
- Replaces existing access readers in minutes, no additional wiring needed
- Peel and stick BioPatch to existing access cards, cell phones, or other devices
- 26-64 Bit Wiegand or Track 2 ABA output

Introduction

Cansec's **Zodiac iClass™** Fingerprint Readers utilize HID's industry leading *iClass™* contactless smart cards for template storage, allowing the use of *iClass™* readers in locations where biometrics are not required. **Zodiac iClass™** allows biometrics to be seamlessly integrated into virtually all new and existing access control systems, while retaining affordability and increased security. Since **Zodiac iClass™** does not store fingerprint templates in memory or on a PC, all privacy concerns are eliminated and cost of installation is kept to a minimum.

Plug & Play Biometrics

Zodiac's unique design allows it to easily **replace any conventional access control reader in minutes** with no change required to the existing access control system. This is made possible by storing each user's fingerprint template in their *iClass™* smart card rather than storing it in the reader or a central database. Because templates do not have to be downloaded into every reader, no additional communication wiring is needed between readers or to a template management PC. **Zodiac iClass™** is available with standard Wiegand or Magnetic Stripe emulation allowing it to be used with virtually all access control and time & attendance systems.

The Stick-On Biometric Solution

Where a user does not wish to replace their existing access control cards, the stick-on **BioPatch** can be easily affixed to the existing card to provide the same functionality as the standard card. **BioPatch** is the ultimate solution for integrating biometrics into existing systems where re-badging is not feasible.

Non-Biometric Doors

HID's complete line of *iClass™* readers can be used on doors that do not require biometric authentication. These readers simply extract the user's Facility Code and ID number encoded in the card and transmit the data in industry standard format, thus allowing them to be used with virtually any existing access control or time and attendance system.

Specifications	Zodiac Fingerprint Reader
Output:	26-64 Bit Wiegand, Track 2 ABA
Read Range:	Up to 3"
Card / BioPatch:	HID iClass™ ISO 15693
LEDs:	2 x bi-colour, 1 externally controlled
Beeper:	standard, externally controlled
Size:	3 ¼"(w) x 4 ¾"(h) x 1 ½" (d)
Weight:	10 oz
Mounting:	standard single gang electrical box
Housing:	high impact polycarbonate (Lexan)
Operating Temp.:	-15°C to 40°C
Environment:	Indoor / Outdoor with enclosure
Power Supply:	12VDC, 300 mA
Sensor:	
Type:	Optical
Verification:	< 2 Seconds, including card read
Cable:	6 cond., 22 AWG, stranded, overall shield
Warranty:	one year

Enrollment Software

Zodiac iClass™ Enrollment Software allows the system administrator to program the ID number of the **Zodiac iClass™** credential. This is critical when deploying the **BioPatch** solution as the ID number can be programmed to match the existing access card. As a result, the combined card will emulate a single access card to the host system whether it is used at a **Zodiac iClass™** or conventional reader.

The **Zodiac iClass™** credential can also be programmed with two fingerprint templates. In the event that a user's primary finger is unreadable due to injury, the alternate finger can be used.

If for some unforeseen reason, a user cannot be enrolled or the system administrator wishes to allow access to selected individuals without biometric authentication, a **Zodiac iClass™** credential can be placed in **Bypass Mode**. Users presenting a **Bypass Mode** credential will not be required to scan their finger. The Facility Code and ID are simply read and transmitted to the access control system.

Zodiac iClass™ Security

To further enhance security of the **Zodiac iClass™** solution, the Enrollment Software, which is used to capture a fingerprint template and write it to the card, cannot be run without a unique Software Logon Card. The unique Logon Card also stores the Facility Code and card format that can be used by the enrollment station.

Zodiac raises the security bar by introducing the **STAR** module that prevents the unit from being defeated by replacing it with a conventional Wiegand reader or keypad. **Zodiac** is the first product of its kind to address this industry wide vulnerability inherent in virtually all biometric access control products.

Zodiac can be placed into **Secure Transmission Mode (STM)**. When STM is enabled (via a DIP switch inside the reader), Wiegand data sent to the access control system is encrypted and sent over the standard Wiegand data lines to an optional **Secure Transmission Authentication Receiver (STAR)** module located inside the access control panel. The STAR module decrypts the data and relays it to the access control system in "clear Wiegand" format. With STM enabled, reader substitution attempts will fail as the resulting "clear Wiegand" data generated by the replacement device will be rejected by the STAR module.

In many security environments, it is desirable to have the **Zodiac** readers switch modes between "card + fingerprint" and "card only" based on a schedule or level of security alert. This can be done by connecting the optional STAR module to a relay output of an existing access control system. When the STAR module is signalled to change modes, an encrypted signal is sent to the reader over the existing Wiegand cable. At the same time, the reader is placed in **Secure Transmission Mode** to further enhance security.

Conclusion

The unique features engineered into the total **Zodiac iClass™** solution make it the **only** choice for those facilities wishing to upgrade to biometrics where security simply cannot be compromised.

Note: Specifications are subject to change without notice.



3105 Unity Drive, Unit #9
Mississauga, Ontario,
Canada, L5L 4L2
Tel (905) 820-2404
Fax (905) 820-0301
<http://www.cansec.com>

