

bioCLASS™ RKLB57, RWKLB575 and BIO500

Smart Card Reader and Reader/Writer with Biometric Verification

• 6180, 6181, 6188, 6190

- ▶ **Increased Security** - Multi-factor authentication with smart card reader, keypad and fingerprint verification module
- ▶ **Added Privacy** - Fingerprint templates are stored on the iCLASS® smart card to alleviate privacy and data-base management concerns
- ▶ **Compatibility** - Works with the broadest range of open standard contactless smart card products, available from over 40,000 resellers worldwide.



ACCESS interoperability.

Using 13.56 MHz contactless smart card technology, the bioCLASS™ RKLB57 and RWKLB575 family of readers provides users with new options for supporting multi-factor authentication of identity. Combining contactless card presentation with a fingerprint biometric, the bioCLASS can also be used with personal identification numbers (PIN).

- ▶ The bioCLASS RKLB57 is a read-only contactless smart card reader with keypad and biometric sensor
- ▶ The bioCLASS RWKLB575 is a read/write contactless smart card reader with keypad and biometric sensor
- ▶ The bioCLASS BIO500 fingerprint biometric verification module is an additional component for upgrading the RKL55/RWKL550 LCD/Keypad reader to a biometric RKLB57/RWKLB575

Complete with enrollment software to guide users through the verification process, HID's bioCLASS readers offer the highest level of security. Storing the fingerprint template only on the smart card and never transmitting the information to an external host, users benefit from the increased security, faster throughput, easier system management, lower costs for the biometric reader and reduced concerns over individual privacy.

- ▶ Three levels of security to choose from: card and PIN; card and fingerprint; card, PIN and fingerprint
- ▶ LCD display provides feedback on user finger placement and defines custom menu keys
- ▶ Includes enrollment software with CP575 unit for writing the biometric template directly to the card
- ▶ Features unique modular design providing a high level of flexibility for a range of applications
- ▶ Includes raised tactile mark on the five ("5") key for visually impaired users
- ▶ Includes cost-effective field upgrade from keypad with LCD display (RKL55/RWKL550) to a biometric solution without downtime

Security 64-bit authentication keys are extremely secure. Readers and cards require matching keys to function. All RF data transmission between the card and keypad reader is encrypted, using a secure algorithm. The key management system reduces the risk of compromised or duplicated cards.

Graphical Display The backlit graphical LCD display offers a 60 x 18 mm viewing area, 120 x 32 resolution. It is factory preset to provide written instructions to the user. Fully customizable, the display also describes the function of the user function keys.

Keypad Offers 12 discrete switches with metal keycaps. Raised tactile mark on the fifth key for visually impaired users. Configurable audio feedback. Backlit numbers in bezel overlay, above each key. Lighting is configurable: Always On, Triggered by Card Read, or Triggered by Key Press.

Indoor Design Rugged, weatherized polycarbonate enclosure provides reliable performance and resistance to vandalism. (Please note that these products are not suitable for outdoor use.)

Enrollment Enrollment software included with the CP575 unit is required to write the biometric template to the cards. The template never enters the PC – it is collected by the reader and written to the iCLASS® card all in one simple process. To alleviate privacy and database management concerns, the biometric template is stored on the iCLASS card rather than in the unit.

RKL57 / RWKL575	
Model Numbers	Reader 6180BxT (Wiegand) 6188BxT (Clock-and-Data)
	Reader / Writer 6181BxT (Wiegand and RS232) 6181Bx4 (Wiegand and Full-Duplex RS485) 6181BxU (Wiegand and USB) 6181BxB (Wiegand and UART)
Read Range	iCLASS Card: Up to 4" (10.2 cm) iCLASS Key/Tag: Up to 1.25" (3.2 cm)
Mounting	Mounting plate attaches to US/EU/ Asian back box, 52-60 mm screw hole spacing (vertical or horizontal). LCD/Keypad reader housing latches onto mounting plate; fingerprint module secured to reader with a screw.
Dimensions	8.43" x 4.17" x 2.28" (21.4 x 10.6 x 5.8 cm)
Weight	13.5 oz. (382 g.)
Power Supply	9-12 VDC, Linear supply recommended
* Current Requirements	270 mA AVG, 328 mA PEAK
Operating Temperature	32°F to 113°F (0°C to 45°C)
Operating Humidity	5% to 95% relative humidity non-condensing
Protection Class	none
Transmit Frequency	13.56 MHz
Cable Distance	Wiegand/Clock-and-Data Interface: 500 ft (150 m) (22AWG), RS232: 50 ft (15 m), RS485: 4000 ft (1220 m), USB: 16 ft (4 m), UART: 1 ft (0.30 m)
Card Compatibility	iCLASS I5693 & I4443B - read-only on 2k bit (256 Byte), 16k bit (2k Byte), 32k bit (4k Byte); HID Application iCLASS I5693 & I4443B - read/write (RWKL575 only) on 2k bit (256 Byte), 16k bit (2k Byte), 32k bit (4k Byte); Application Space
Certifications	UL 294/cUL, FCC, IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), MIC (Korea), NCC (Taiwan), MIC (Japan), RoHS
Housing Material	UL94 Polycarbonate
Fingerprint sensor type	Optical
Warranty	Warrantied against defects in materials and workmanship for one year. (See complete warranty policy for details.)

* Add 40mA current when using USB expansion module; add 10mA current when using all other communication expansion modules

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ACCESS experience.

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