HID®

bioCLASS™
RKLB57, RWKLB575
and BIO500

SMART CARD READER/FIELD ENROLLER OR READER/WRITER WITH BIOMETRIC VERIFICATION
• 6180, 6181, 6188, 6190

- **Increased Security** - Multi-factor authentication with smart card reader, keypad and fingerprint verification module
- **Reader and Field Enroller** - One unit (field enroller) provides access control verification and fingerprint template enrollment
- **Added Privacy** - Fingerprint templates are stored on the iCLASS® smart card to alleviate privacy and database management concerns
- **Compatibility** - Works with the broadest range of open standard contactless smart card products, available from over 40,000 resellers worldwide

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 reader can also be used with personal identification numbers (PIN).

Featuring multi-factor authentication, HID's bioCLASS readers offer the highest level of security. Storing the fingerprint template only on the smart card, users benefit from the increased security, faster throughput, easier system management, lower costs for the biometric reader and reduced concerns over individual privacy. Choose from three levels of security, including card/biometric fingerprint, card/PIN and card/fingerprint/PIN.*

The bioCLASS RKLB57 is a read-only, contactless smart card reader with a keypad and biometric sensor that provides access control verification and fingerprint enrollment all in one reader.

Key Features

- Field Enroller (6180BxR) can be configured as a dual-purpose reader/enroller, single-purpose enroller-only or reader-only

- Field Enroller (6180BxR) provides additional field configuration options allowing for selection of language (choose from 9 languages), administration rights (store rights on card or in reader) and template storage location (small templates fit anywhere on iCLASS® cards)

- Field Enroller comes with multilingual quick start guide and English instructional CD.

- Site unique keys protect card access control data (Elite) or biometric templates (Bio-Elite).

The bioCLASS RWKLB575 is a contactless smart card reader/writer with keypad and biometric sensor that provides access control verification, in addition to host-controlled read/write to iCLASS smart cards.

* Security level configuration is not dynamic. Field or factory configurable using configuration card.

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FEATURES:

- **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. Multilingual version available in Field Enroller (6180BxR) unit.

- **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 -** Use one of two methods for fingerprint template (and PIN enrollment if desired) onto iCLASS® smart cards. (1) Field Enroller (6180BxR) allows for dynamic configuration of reader type (reader/ enroller, enroller-only or reader-only). Enroller-enabled reader types allows for enrollment of fingerprint templates (and PINs) onto iCLASS smart cards. (2) CP575A iCLASS Card Programmer is PC software that enables field programming of access card numbers, plus enrollment of fingerprint templates and PINs onto iCLASS smart cards.

SPECIFICATIONS

*Model Name	**RKLB57 / RWKLB575**
Model Number	**Field Enroller (Reader / Enroller)***** 6180BxR (Wiegand) **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	245 mA AVG, 299 mA PEAK
Operating Temperature	32º F to 113º F (0º C to 45º C)
Operating Humidity	5% to 95% relative humidity non-condensing
Environmental	Indoor Only
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 15693 & 14443B** - read-only on 16k bit (2k Byte), 32k bit (4k Byte); HID Application **iCLASS 15693 & 14443B** - read/write (RWKLB575 only) on 16k bit (2k Byte), 32k bit (4k Byte); Application Space
Language Support**	**Field Enroller** - English, International Spanish, Brazilian Portugese, German, Italian, French, Russian, Chinese (Mandarin), Korean, Japanese **Reader** - English, International Spanish, Brazilian Portugese, German, French, Chinese (Mandarin)
Certifications	UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), MIC (Korea), NCC (Taiwan), MIC (Japan), iDA (Singapore), RoHS
Housing Material	UL94 Polycarbonate
Fingerprint sensor type	Optical
Resolution	500 dpi, 256-bit gray scale, 18 x 22 mm sensor area
Timing	Card read < 0.5 sec Fingerprint capture < 2 sec, typical 1 sec Verification of captured finger < 1 sec
False Accept/ Reject Rate	FAR < 0.01%, FRR < 0.01%
Warranty	Warrantied against defects in materials and workmanship for one year. (See complete warranty policy for details.)

* (RWKLB575 specific) Add 25 mA current for USB expansion modules and 20 mA for all others.
** Language support includes LCD text and quick start document.
*** Field Enroller (Reader/Enroller) is field configurable into Reader/Enroller, Enroller-Only or Reader-Only reader types. Additionally, LCD language is field configurable.
**** Legacy reader part numbers support simpler installation (no setup required) and C&D support. For maximum flexibility, select the Field Enroller.
***** One serial hardware interface only supported by RWKLB575 with expansion module.