

# iCLASS® LCD/Keypad RKL55 and RWKL550

Smart Card Reader and Reader/Writer with Biometric Verification - 6170, 6171, 6172, 6178

- ▶ **Enhanced User Interaction** - LCD clearly instructs user of proper operation at the door
- ▶ **Increase ROI** - Versatile physical access reader can be used for more than just access control
- ▶ **Increase Security** - Utilize keypad for dual-factor authentication



## ACCESS interoperability.

Using 13.56 MHz contactless smart card technology, the RKL55 iCLASS® LCD/Keypad reader and RWKL550 Reader/Writer provides users with enhanced interaction at the door. Combining contactless card presentation with a personal identification number (PIN), these readers provide a second layer of authentication for higher security. The RKL55 and RWKL550 include an LCD screen and function keys for real-time user feedback, further expanding system versatility at the door.

The RKL55\* features HID Advanced Device Protocol (HADP)/Open Supervised Device Protocol (OSDP), combined with the power of iCLASS, to push user interaction and system functionality to the extreme. Ideal for wide variety of applications, including time and attendance, vending and point-of-sale, these readers display\*\* total hours worked, cash on card balances and employee name and account balances prior to and after application transactions.

- ▶ Reader allows for a host device to control the LCD display, obtain user interaction through function keys, poll buffered card data and control audio/visual indicators
- ▶ Host device drives real-time clock, user information and system status
- ▶ iCLASS Serial Protocol for read/write on iCLASS smart cards; point-to-point communication over RS232, RS485 (full-duplex), USB or UART hardware medium (RWKL550)
- ▶ Offers clear communication to system users without requiring additional components

\* Requires ordering an HADP-enabled RKL55 reader

\*\* Capable host system must drive functionality, RKL55 and HADP/OSDP protocol only provide the platform for application implementation

**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 CP575A unit is required to write PIN to card for PIN-on-card verification at the reader.

### RKL55 / RWKL550

<b>Model Numbers</b>	<b>Reader</b> 6170BxT (Wiegand) 6172BxP (HADP/OSDP) 6178BxT (Clock-and-Data)
	<b>Reader / Writer</b> 6171BxT (Wiegand and RS232) 6171Bx4 (Wiegand and Full-Duplex RS485) 6171BxU (Wiegand and USB) 6171BxB (Wiegand and UART)
<b>Read Range</b>	iCLASS® Card: Up to 4" (10.2 cm) iCLASS Key/Tag: Up to 1.25" (3.2 cm) MIFARE / DESFire Card (CSN): Up to 2" (5.1 cm)
<b>Mounting</b>	Mounting plate attaches to US/EU/Asian back box, 52-60 mm screw hole spacing (vertical or horizontal), or to any flat surface. Keypad reader housing latches onto mounting plate, secured with a screw.
<b>Dimensions</b>	6.14" x 4.17" x 1.45" (15.6 x 10.6 x 3.7 cm)
<b>Weight</b>	9.2 oz. (260 g.)
<b>Power Supply</b>	9-12 VDC, Linear supply recommended
<b>Current Requirements</b>	160 mA AVG, 250 mA PEAK
<b>Operating Temperature</b>	32°F to 113°F (0°C to 45°C)
<b>Operating Humidity</b>	5% to 95% relative humidity non-condensing
<b>Protection Class</b>	none
<b>Transmit Frequency</b>	13.56 MHz
<b>Cable Distance</b>	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)
<b>Card Compatibility</b>	iCLASS 15693 & 14443B - read-only on 2k bit (256 Byte), 16k bit (2k Byte), 32k bit (4k Byte); HID Application iCLASS 15693 & 14443B - read/write (RWKL550 only) on 2k bit (256 Byte), 16k bit (2k Byte), 32k bit (4k Byte); Application Space ISO 15693 - read-only; serial number (CSN) ISO 14443B - read-only; serial number (CSN) ISO 14443A (MIFARE®, DESFire®) - read-only; serial number (CSN) ISO 14443A-4 (DESFire) - read/write (RWKL550 only); Application Space US Government PIV (FIPS 201) - read-only; CHUID, FASC-N, etc. FeliCa (RKL55 Transit Readers Only) - read-only; serial number (IDM)
<b>Certifications</b>	UL 294/cUL, FCC, IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), MIC (Korea), NCC (Taiwan), MIC (Japan), RoHS
<b>Housing Material</b>	UL94 Polycarbonate
<b>Warranty</b>	Warrantied against defects in materials and workmanship for one year. (See complete warranty policy for details.)
<b>Fingerprint sensor type</b>	Optical

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**ACCESS** experience.

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