

## K2

Dual Technology Contactless Smart Card Keypad Reader is an user friendly and high security physical Access Control reader, it is water proof design that suitable for different indoor and outdoor installation environment, it made by high quality material to ensure enhanced reliability and long-term duration.

Reader high security data encryption output which works with ACX 2080 Gateway or ACX Data Exchanger ensure the data cannot be snooped by external device, totally solve the wiegand signal transmission problem.

Embedded bluetooth technology can read the encrypted virtual credential number from Android phone and iPhone.



## FEATURES

- Bluetooth and Contactless Dual Technology Keypad Reader
- Backlight 12 keys touch sensor keypad
- Optical sensor for tamper protection, I am alive feature
- Supports 125KHz, 13.56MHz ISO 14443 A, B & ISO15693, Bluetooth 4.0
- RED / Green / Blue or mixed color LED Circle Ring for visual notification
- User defined reader's access granted and access denied LED & Buzzer ON / OFF times and interval
- Wiegand, OSDP standard, OSDP secure and the ACX proprietary scramble encryption format
- Waterproof IP65

## CARD TECHNOLOGY

| Card Technology    | Card Number Output        | Item No. ( RF / RF+BLE ) |
|--------------------|---------------------------|--------------------------|
| HID iCLASS         | 32 ~ 64 bits CSN          | K211 / K2T1              |
| HID 125 KHz        | HID card number           | K212 / K2T2              |
| EM                 | 32 bits CSN               | K213 / K2T3              |
| Mifare Classic     | 32 ~ 56 bits CSN / Sector | K214 / K2T4              |
| SONY Felica CSN    | 32 ~ 64 bits CSN          | K215 / K2T5              |
| Mifare Plus S / X  | 32 ~ 56 bits CSN / Sector | K216 / K2T6              |
| Mifare DESFire EV1 | 32 ~ 56 bits CSN / Sector | K217 / K2T7              |
| LEGIC Advant       | 32 ~ 64 bits CSN / Sector | K218 / K2T8              |

## SPECIFICATION

| <b>K2 Bluetooth And Contactless Smart Card Reader</b> |  |
|---|--|
| Key Authentication                                    | Custom 128 bits diversify key  |
| Card Data Security                                    | Max. 64 bits card number mixed with original CSN, custom AES 128 bits key data encryption, CRC16   |
| Reader Output   | Wiegand, OSDP standard, OSDP secure and the ACX proprietary scramble encryption format   |
| Typical Read Range                                    | 125 KHz : 5cm+, 13.56 MHz : 4cm+, Bluetooth Technology : 2m to 10m<br>Typical read range achieved in air; different types of metal will cause some degradation<br>Use spacers to space product off metal and improve read range if required. |
| I Am Alive  | User define 1 bytes "I am alive" data in a certain interval  |
| Reader Cable  | 10 wires. Power, Ground, D0, D1, ACK, Buzzer, hold, RS485(A), RS485(B), spare  |
| Mounting  | Wall Switch Size; designed to mount and cover single gang switch boxes primarily used in the Americas and includes a slotted mounting plate for European and Asian back box spacing  |
| Visual Indicator                                      | Circle Ring in RED / Green / Blue / Amber / Purple / White / Light Purple color, user defined LED ON / OFF time interval   |
| Audio Indicator                                       | Internal buzzer, user defined beep sound ON / OFF time interval (ms)   |
| Color   | Black or White   |
| Keypad  | Backlight, waterproof, touch sensor technology, 12 keys, 0 to 9, *, #  |
| Dimension   | 80mm x 115mm x 16mm  |
| Product Weight  | 120g   |
| Operating Voltage                                     | 9-16 VDC, Linear supply recommended  |
| Operating Current                                     | 100mA AVG, 120mA PEAK  |
| Operating Temperature                                 | - 31° to 150° F (-35° to 65° C)  |
| Storage Temperature                                   | - 67° to 185° F (-55° to 85° C)  |
| Operating Humidity                                    | 5% to 95% relative humidity non-condensing   |
| Housing Material                                      | Polycarbonate  |
| Cable Distance  | RS485 interface : 4000 feet (1200m)<br>Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent   |