

K2 Dual Technology Contactless Smart Card Keypad is a user-friendly and highly secure physical access control reader. It is waterproof and made of high-quality materials to enhance reliability and longevity, hence suitable for both indoor and outdoor installations.

The high-security data encryption output of the reader, combined with the ACX 2080 Gateway or ACX Data Exchanger, ensures that your data is protected against external snooping. This solution effectively resolves any problems related to the Wiegand signal transmission.

The embedded Bluetooth technology also allows for reading encrypted virtual credential numbers from both Android and iPhone devices.



FEATURES

- Bluetooth and Contactless Dual Technology Keypad Reader
- 12-key capacitive keypad with backlight
- Optical sensor for tamper protection, "I Am Alive" feature
- Support 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/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

SPECIFICATIONS

K2 Bluetooth and Contactless Smart Card Reader	
Key Authentication	Custom 128 bits diversified 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 Typical read range achieved in air; different types of metal will cause some degradation Use spacers to space product off metal and improve read range if required.
"I Am Alive"	User-define 1 byte "I Am Alive" data at 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. It includes a slotted mounting plate for European and Asian back box spacing
Visual Indicator	LED circle ring in Red / Green / Blue / Amber / Purple / White / Light Purple, 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 20mm
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) Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent