





ZKTECO KR802-EP 3 In 1 Reader Instruction Manual

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ZKTECO KR802-EP 3 In 1 Reader



Product Information

Specifications:

Product name: 3-in-1 readerProduct model: KR802-EP

• Date: 2023.11.07

• Number of samples: 4 PCS

Basic Characteristics and Application Areas

• Basic Characteristics: KR802-EP ID/IC/SFZ 3-in-1 Reader

• **Application fields:** Widely used in RFID applications such as access control, time and attendance, toll collection, anti-theft, patrol, etc.

Model List:

Model No.	P/N	Material code
7754 X02101196	KR802-T	

Technical Parameters:

Basic technical parameters:

• **Size:** 90mm x 90mm x 16mm

• Working frequency: 125KHz & 13.56MHz

• Communication: Wiegand/RS485

Wiring Function Description:

Red	Black	White	Green	Purple	Grey	Yellow	Blue	Orange
VCC	GND	Wiegand D1	Wiegand D0	Beeper	LED GND	To WG26	RS485+	RS485-

Product Usage Instructions:

FAQ:

Q: What is the working frequency of the 3-in-1 reader?

A: The working frequency of the reader is 125KHz & 13.56MHz.

Specification

Product name: 3-in-1 reader
Product model: KR802-EP
Original Model: KR802-EP

P/N: ID/IC/SFZ Reader (Wiegand34/Wiegand26/RS485

Specification:

• 90mm*90mm*16mm Cable length 220mm±15mm

With touch keypad black panel ZKTeco logo

Sample date: 2023.11.07Number of samples: 4 PCS

Supplier Confirmation	Compilation	Audit	Ratify
Confirmation			
Customer Confirmat	Approval	Audit	Ratify
ion			

Basic Characteristics and Application Areas

1. Basic Characteristics

KR802-T reader is a 125KHz/13.56MHz contactless RFID/IC/ID card 3-in-1 reader, which is a contactless smart card serial number reader developed based on the international standard protocols of ISO/EM4001 and ISO/IEC14443A/B. It is designed with high-performance RF reader circuitry, which is integrated and stable in size and performance. It adopts a high-performance RF card reading circuit design, featuring high integration, strong anti-interference ability, small size, stable performance, and high-cost performance. It provides Wergen 26/34 and RS485 communication interfaces. The read head comes with a card reading antenna, and fully enclosed potting, waterproof, and moisture-proof.

2. Application fields

Widely used in a variety of RFID applications such as access control, time and attendance, toll collection, antitheft, patrol, and so on.

Model list

Model No.	P/N	Material code	Specification
7754	X0210119 6	KR802-T	ID/IC/SFZ reader (Wiegand34/Wiegand26/RS485 90mm*90mm*16mm ca ble length 220mm±15mm With touch keypad black panel ZKTeco logo)

Picture of product







Technical Parameters

Basic technical parameters

Specification	ID/IC/SFZ Reader(Wiegand34/Wiegand26/RS485 90mm*90mm*16mm Cable length 220mm±15mm With touch keypad black panel ZKTeco logo		
Size	90*90*16mm ±3mm		
Electrical paramet ers	Working Voltage DC 12V ±5% Standby current less than 80mA; swipe current less than 200mA		
Environmental requirements	Temperature and humidity -20°C—60°C 20%-80%(+ 25°C) Storage Temperature & Humidity -20°C—80°C 20%-80%(+ 25°C)		
Product Process	Surface Process Front shell:ABS+PC/ Sliver(HG698002)/ Print ZKTeco Two Color Logo Co Id Gray 11 C+Green 368C) Back shell:Black etching Acrylic Panel: Black ZKteco logo: Silkscreen		
Protection level	IP65		
Working frequency	125KHz & 13.56MHz		
Protocol	ISO/EM4001 ISO/IEC 14443A/B		
Card support	ID thick card / ID thin card / S50/S70 card / SFZ		
Communication	Wiegand / RS485		
Communication WG26/WG34/RS485			
Firmware	KR801KR802EM(HC)-WG-RS_20200731_V1.05		
Hardware PCB)	KR801KR802EM_V1.01_20200609		
Static parameters	Contact 4kv, Air 8kv		

Test parameters

Swipe card distan	ID thick card 0~50mm / ID thin card 0~50mm / S50 card 0~50mm/ S70 card 0~50mm / SFZ card 0~35mm Note: 0~L (L≥Lmm) (actual distance is related to the card used and the application environment)
Status test	Power on: the green light is on for a while, then the red light is on for a while, and finally tur ns to the breathing light; Standby: Breathing light on – off – on and so on.
External Control Cables	Buzzer beeps long when the purple wire is grounded; green light long when the gray wire is grounded
	Power-up: 400mS Swipe: 200mS
	Push button: 100mS
	Alarm: 80mS, 50mS interval
Beeping time	485: Upload data within 8S without receiving a reply, ring 4 times, each sound 80mS, 50mS intervals
	Power on light up 400mS green light, swipe card light up green light 200ms.
Duration of light	The button light is always on if it is controlled by a microcontroller, the length of the button i s 100mS.
Daranon or light	485: upload data within 8S did not receive a reply, flash 4 times, each time light 80mS, dark 50mS

Wiring Function Description

Red: VCCBlack: GND

White: Wiegand D1Green: Wiegand D0Purple: Beeper

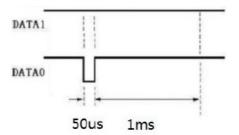
• Grey: LED

• Yellow: GND To WG26

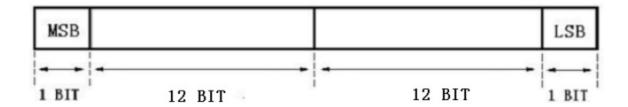
Blue: RS485+Orange: RS485-

Description of the Wigan code format

W26 Chronology diagram

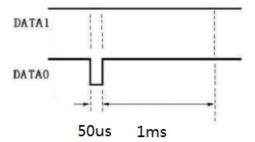


W26 Data format

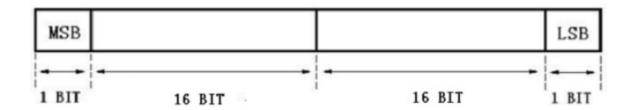


- 24 BITS SERIAL NUMBER = 3BYTE (HEX)
- **Description:** MSB is sent first; MSB is the even parity bit of the high 12 BIT; LSB is the odd parity bit of the low 12 BIT;
- Even parity definition: when the number of I's in 12 BIT is even, MSB is 0; when the number of I's in 12 BIT is odd, MSB is 1;
- Odd-check definition: LSB is 1 when the number of 1's in 12 BIT is even; LSB is 0 when the number of 1's in 12 BIT is odd

W34 chronology diagram

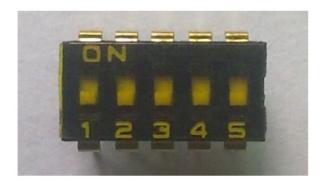


W34 Data format



- 32 BITS SERIAL NUMBER = 4BYTE (HEX)
- **Description:** MSB is sent first; MSB is the even parity bit of the high 16 BIT; LSB is the odd parity bit of the low 16 BIT;
- Even parity definition: MSB is 0 when the number of I's in 16 BIT is even; MSB is 1 when the number of I's in 16 BIT is odd;
- Odd parity definition: when the number of 1's in 16 BIT is even, LSB is 1; when the number of 1's in 16 BIT is

DIP Switch Description



Description:

- This dip switch is a 5-position dip switch, the default is fully closed, dialed to the ON position on behalf of the key has been connected.
- **Key 1-4:** address control bit; key 4 3 2 1 represents 8421 address code respectively (Example: key 1 dialed to ON position represents address 1, key 3 dialed to ON position represents address 4, and key 1 and 4 dialed to ON position represents address 9).
- **Key 5:** control baud rate, the default is 115200, dial to ON position for 9600.
- Note: Address 1, 2, 3, and 4 are valid addresses.

Product factory packing information

Туре	Size	Weight(Including package) (±10 g)	Contained material	
Packing b ox	155*110*45MM 51g (Contained ma terial)	186g	Reader Lining Screws Backshell Screws 1PCS Expansion tube PCS Certificate of conform 1Pd sealing sticker (F4+) ZKTECO address labels 1PCS	1PCS 1PCS 2PCS 2 ity CS Blue roun 1PCS
Outer box	570*330*255MM 700g	700+186*50= 10000g	50PCS/box	

Note:

The outer box is based on the number of orders to choose to use a different carton, so there may be some difference with the physical delivery, the most commonly used for the outer box is 570 * 330 * 255MM.

Declaration of Environmental Conformity

This enterprise makes the following solemn declaration on the products provided:

- 1. This product complies with GB/T 26572-2011 "Limited Requirements for Restricted Substances in Electrical and Electronic Products" and the exceptions of restricted substances stipulated by the state.
- 2. This product complies with GB/T 26125-2011 "Testing Methods for Six Restricted Substances in Electrical and Electronic Products".
- 3. This product complies with SJ/T 11364-2014 "Requirements for Labeling of Restricted Use of Hazardous Substances in Electrical and Electronic Products".
- 4. Product Description:

Item No.	P/N	Model No.	Remark
1		KR802-EP	

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, under Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used under the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with a minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

• Add: Room 1004, Block B, Building #3, Cloud Park, Bantian, Longgang District, Shenzhen, China.

• Tel: 0755-2826020

• Website: www.zkradio.com.

Documents / Resources



ZKTECO KR802-EP 3 In 1 Reader [pdf] Instruction Manual KR802-EP, KR802-EP 3 In 1 Reader, 3 In 1 Reader, Reader

References

User Manual

Manuals+, Privacy Policy

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