ZKTeco ProID104 Scratch Proof RFID Access Control Reader User Manual

Contents

ZKTeco ProID104 Scratch Proof RFID Access Control Reader

USER MANUAL

Scratch Proof RFID Access Control Reader

- **Applicable Models:** ProID104
- **Version:** 1.0
- **Date:** July 2023

Thank you for choosing our product. Please read the instructions carefully before operation. Follow these instructions to ensure that the product is functioning properly. The images shown in this manual are for illustrative purposes only.
For further details, please visit our Company's website **www.zkteco.com**.

ProID104 Scratch Proof RFID Access Control Reader User Manual

Trademark

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1. in case the machine/unit/equipment malfunctions due to any non-compliance of the instructions contained in this manual
2. in case of operation of the machine/unit/equipment beyond the rate limits
3. in case of operation of the machine and equipment in conditions different from the prescribed conditions of the manual.

The product will be updated from time to time without prior notice. The latest operation procedures and relevant documents are available on **http://www.zkteco.com**.
If there is any issue related to the product, please contact us.

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- To know more about our global branches, visit **www.zkteco.com**.

About the Company
ZKTeco is one of the world's largest manufacturer of RFID and Biometric (Fingerprint, Facial, Finger-vein) readers. Product offerings include Access Control readers and panels, Near & Far-range Facial Recognition Cameras, Elevator/floor access controllers, Turnstiles, License Plate Recognition (LPR) gate controllers and Consumer products including battery-operated fingerprint and face-reader Door Locks. Our security solutions are multi-lingual and localized in over 18 different languages. At the ZKTeco state-of-the-art 700,000 square foot ISO9001-certified manufacturing facility, we control manufacturing, product design, component assembly, and logistics/shipping, all under one roof.
The founders of ZKTeco have been determined for independent research and development of biometric verification procedures and the productization of biometric verification SDK, which was initially widely applied in PC security and identity authentication fields. With the continuous enhancement of the development and plenty of market applications, the team has gradually constructed an identity authentication ecosystem and smart security ecosystem, which are based on biometric verification techniques. With years of experience in the industrialization of biometric verifications, ZKTeco was officially established in 2007 and now has been one of the globally leading enterprises in the biometric verification industry owning various patents and being selected as the National High-tech Enterprise for 6 consecutive years. Its products are protected by intellectual property rights.

About the Manual
This manual introduces the operations of ProID104 Scratch Proof RFID Access Control Reader.
All figures displayed are for illustration purposes only. Figures in this manual may not be exactly consistent with the actual products.
Features and parameters with ★ are not available in all devices.

Document Conventions

Conventions used in this manual are listed below: GUI Conventions

For Software	
Convention	**Description**
Bold font	Used to identify software interface names e.g., **OK**, **Confirm**, **Cancel**.
>	Multi-level menus are separated by these brackets. For example, File > Create > Folder.
For Device	
Convention	**Description**
< >	Button or key names for devices. For example, press <OK>.
[ ]	Window names, menu items, data table, and field names are inside square brackets. For example, pop up the [New User] window.
/	Multi-level menus are separated by forwarding slashes. For example, [File/Create/Folder].

Symbols

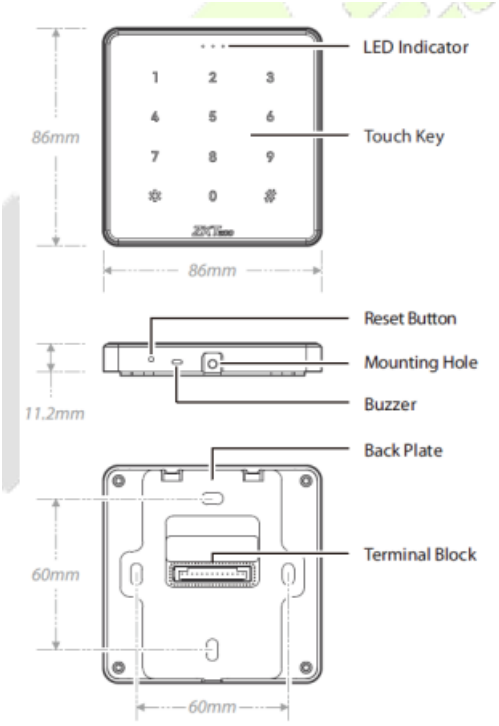
Convention	Description
	This represents a note that needs to pay more attention to.
	The general information which helps in performing the operations faster.
	The information which is significant.
	Care taken to avoid danger or mistakes.
	The statement or event that warns of something or that serves as a cautionary example.

Overview

Introduction

The ProID104 is a highly advanced RFID access control reader launched by ZKTeco. ProID104 supports IC card, CPU card and NFC. Also, the device features a sleek and stylish design that combines 2.5D tempered glass and a metal oxidation process to create a refined and compact appearance. This highly integrated product supports reading cards, passwords, and tamper functions, and is supported by strong hardware for stable operation. In addition, it supports Wiegand and RS485 communication, making it compatible with a wide range of controllers.

Appearance



Features

- 2.5D tempered glass & metal oxidation process.
- Support the RFID card and password identification.
- Support IC card, CPU card, and NFC.
- Support Wiegand communication and RS485 communication.
- Tamper alarm.
- Personalized light and sound settings.

Specifications

Items	Specifications
Product Model	ProID104
Product Function	RFID card identification, password identification, disassembly alarm
Card Reading Frequency	13.56MHz
Card Type	IC Card, CPU Card, NFC
Reading Range	0 to 2 cm
Communication Type	Wiegand26, Wiegand34, Wiegand66, RS485
Operating Temperature	0°C to 45 °C
Operating Humidity	20% to 90% RH
Operation Voltage	DC12V 1A
Working Current	Standby current less than 100mA, the swipe current is less than 300mA
Product Size	86 × 86 × 11.2 mm
Electrostatic Discharge Immunity	Contact discharge ±4KV, air discharge ±8KV
Vandal Proof Protection Rating	IK04
Compatible Controller	InBio Pro, C3 Series

Terminal and Wiring Description

Terminal Description

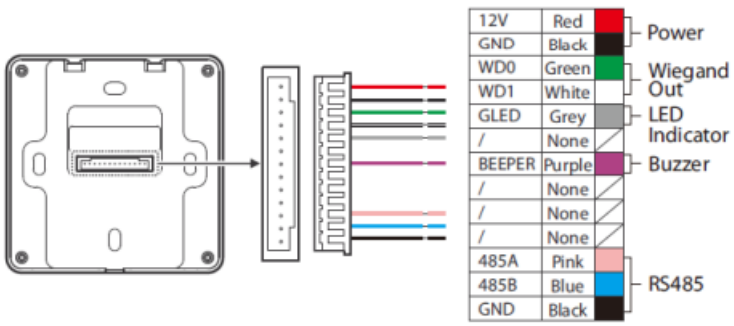
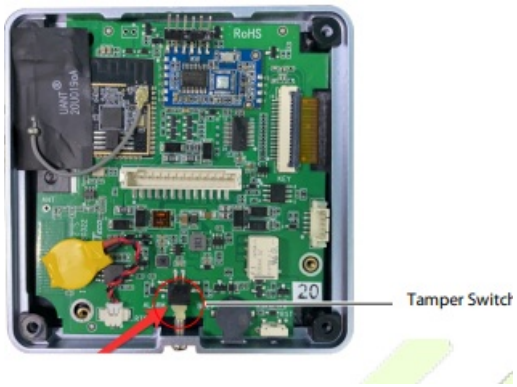


Figure 2-1 Terminal Description

Name	Interface	Description
Power	+12V	DC12V Input
	GND	
Wiegand Out	WD0	Wiegand Output0
	WD1	Wiegand Output1
LED Indicator	GLED	LED Indicator Output
/	Undefined	/
Beep	BEEPER	Beeper Output
/	Undefined	/
/	Undefined	/
/	Undefined	/
RS485	485A	RS485 Communication Interface
	485B	
	GND	

Table 2-1 Description of Terminal and Interfaces



Description: When the tamper screw at the bottom of the equipment is removed, the tamper switch is triggered, and then the buzzer alarm is issued.

Wiring Description 2.2.1 Power Wiring

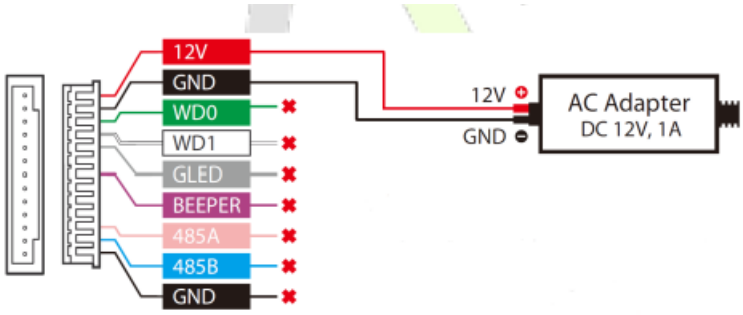


Figure 2-2 Power Wiring

Notes

- Use the power adapter provided by a regular manufacturer as recommended. Recommended **AC adapter**: DC12V 1A.
- Use an AC adapter with a higher current rating to share power with the other devices.

Controller Connection

This ProID104 reader can be connected to the controller and set by software to achieve the function. The following is an example of the connection to In Bio Pro controller.

Connect the controller via RS485

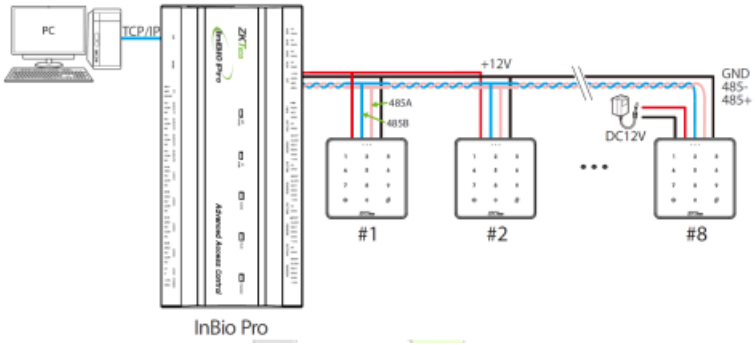


Figure 2-3 Readers connect the controller via RS485 Set the Reader Address

- **Device Side:** Before connecting the RS485 reader, you must set the RS485 address of the reader (device number) via touch key. On the reader's touch panel, press *# → Input the administrator password → 8 → 6 → 1~32 → # (e.g. press *# → 1234 → 8 → 6 → 1 → #, the RS485 address of reader is changed to 1).
- **Software Side (ZKBioCV Security**): Click [Access Control] > [Access Control Device] > [Reader], select the reader and click . Enter the communication address of the reader on the editing interface, and the RS485 address (device number) of the reader can be set through the software.

By default, the odd number is the entry reader, and the even number is the exit reader. For example, the RS485 address of reader #1 is 1, which correspond to the door #1 entry reader, the RS485 address of reader #2 is 2, which correspond to the door #1 exit reader, and so on. For details, see the software user manual.

RS485 Address Controller	1	2	3	4	5	6	7	8
InBio Pro	#1 In	#1 Out						
InBio Pro	#1 In	#1 Out	#2 In	#2 Out				
InBio Pro	#1 In	#1 Out	#2 In	#2 Out	#3 In	#3 Out	#4 In	#5 Out

Table 2-2 The default RS485 address code corresponds to the controller door

Connect the controller via Wiegand

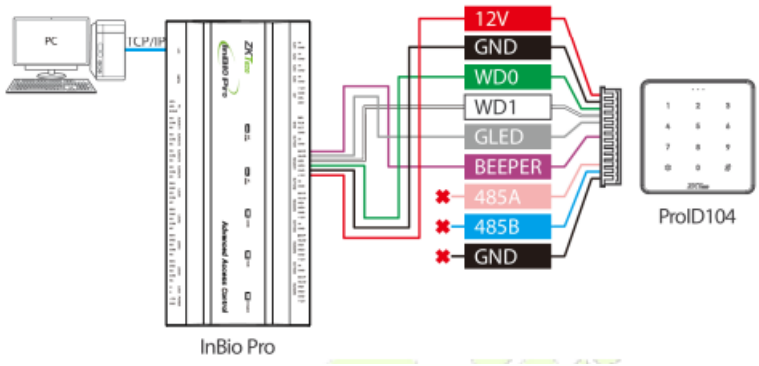


Figure 2-4 Readers connect the controller via Wiegand For details, please see the controller user manual.

Installation Set-up
Mounting on the Wall through Asian Gang Box

- **Step 1**: Install the Asian gang box (or single gang box, mullion mount) into the wall.
- **Step 2**: Fix the back plate onto the Asian gang box (or single gang box, mullion mount) using two wall mounting screws.
- **Step 3**: Pass the cables through the wire hole.
- **Step 4:** Then insert the device into back plate.
- **Step 5:** Use security screw to fasten the device to the back plate.

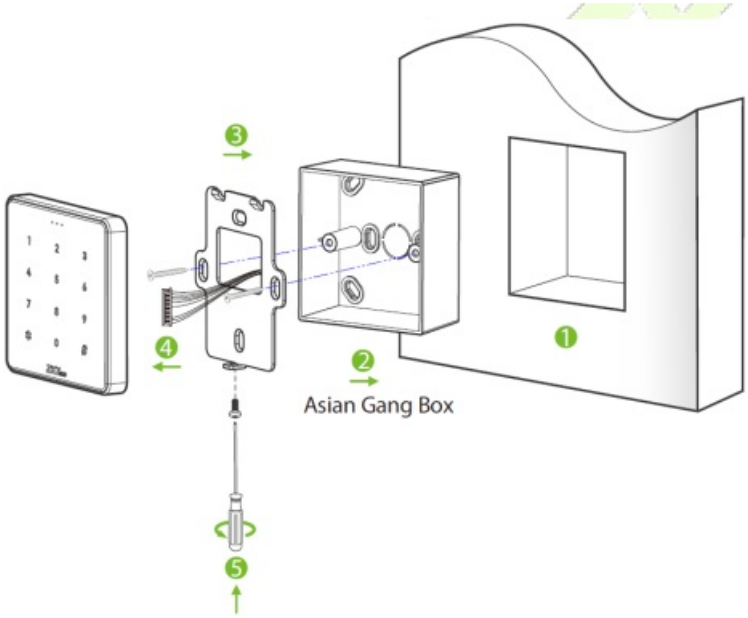


Figure 3-2 Install the ProID104 reader on the wall through Asian gang box

Operating Instruction
Press *# to enter the setting mode and input the administrator password (1234 by default). After entering the setting mode, the indicator will turn green. Otherwise, the operation fails.

Modify the Administrator Password
Press *# → Input the old administrator password → 0 → Input the new password → # → Input the new password again → #.

For Example: *# → 1234 → 0 → 1234567 → # → 1234567 → #

Notes

- The administrator password contains 1 to 8 characters. After successful verification, the administrator enters the setting mode.
- If you forget the administrator password, you can reset the password by restoring the default settings. Set the Wiegand Output Mode

Press *# → Input the administrator password → 8 → 5 → 0/1/2/3 → #. 0: Wiegand 26.

1. Wiegand 34 (Default).
2. Reserved.
3. Wiegand 66.

Set the Reader Address
Press *# → Input the administrator password → 8 → 6 → 1~32 → #.
Note: Set the reader RS485 address. The value ranges from 1 to 32.

Set the Keystroke Sound
Press *# → Input the administrator password → 8 → 7 → 0~9 → #.
Note: The number from 0 to 9 corresponds to different sounds.

Set the Background Light
Press *# → Input the administrator password → 8 → 8 → 0/1/2 → #

1. Normally Close.
2. Normally Open.
3. Breathing Light.

Restore the Default Settings
First, remove the mounting screws from the bottom, and then long press the reset button at the bottom for 4 seconds until the blue indicator lights up four times, the buzzer rings for four times, and then the buzzer buzzes for one short time. The device is restored to default settings.

Appendix 1 Eco-friendly Operation

The product’s “eco-friendly operational period” refers to the time during which this product will not discharge any toxic or hazardous substances when used in accordance with the prerequisites in this manual.

The eco-friendly operational period specified for this product does not include batteries or other components tha t are easily worn down and must be periodically replaced. The battery’s eco-friendly operational period is 5 year s.

Hazardous or Toxic substances and their quantities

Component Na me	Hazardous/Toxic Substance/Element					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr6+)	Polybrominated Biphenyls (PBB)	Polybrominated D iphenyl Ethers (P BDE)
Chip Resistor	×	○	○	○	○	○
Chip Capacitor	×	○	○	○	○	○
Chip Inductor	×	○	○	○	○	○
Diode	×	○	○	○	○	○
ESD component	×	○	○	○	○	○
Buzzer	×	○	○	○	○	○
Adapter	×	○	○	○	○	○
Screws	○	○	○	×	○	○

○ indicates that the total amount of toxic content in all the homogeneous materials is below the limit as specifie d in SJ/T 11363—2006.

× indicates that the total amount of toxic content in all the homogeneous materials exceeds the limit as specified in SJ/T 11363—2006.

Note: 80% of this product’s components are manufactured using non-toxic and eco-friendly materials. The com ponents which contain toxins or harmful elements are included due to the current economic or technical limitatio ns which prevent their replacement with non-toxic materials or elements.

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Documents / Resources

	**ZKTeco ProID104 Scratch Proof RFID Access Control Reader** [pdf] User Manual ProID104 Scratch Proof RFID Access Control Reader, ProID104, Scratch Proof RFID Access Control Reader, Access Control Reader, Control Reader

References

- ZKTeco | Home Page
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