

User Manual

TS1200 Pro Series Tripod Turnstile

Applicable Model(s): TS1200 Pro, TS1211 Pro, TS1222 Pro

Date: April 2026

Doc Version: 1.7

English

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.



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If there is any issue related to the product, please contact us.

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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 **TS1200 Pro Series Tripod Turnstile**.

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.

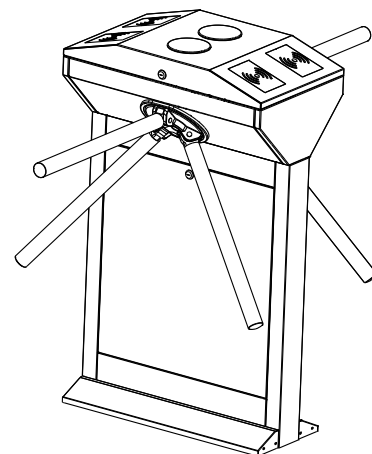
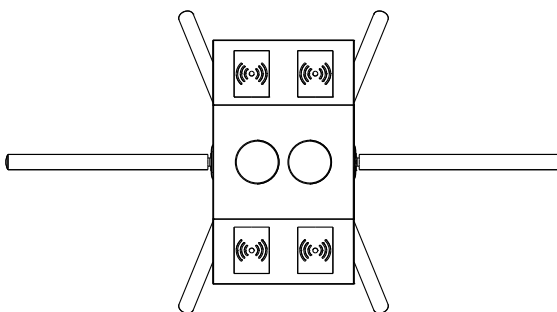
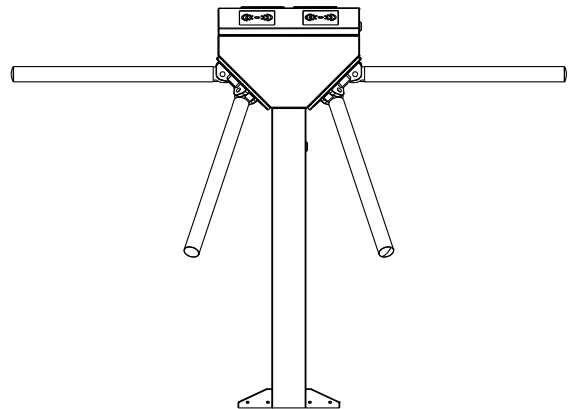
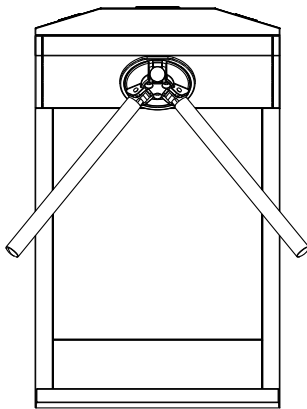
Table of Contents

1 OVERVIEW.....	6
1.1 Features	7
1.2 Appearance and System Components	7
1.2.1 Appearance	7
1.2.2 System Components	8
1.3 Model Number and Access Control.....	8
1.4 Mechanical System	9
1.5 Electronic Control System	9
1.6 Power-On Self-Test	9
1.7 Status of Traffic Indicator	10
1.8 Working Principle.....	10
1.9 Technical Specifications.....	11
2 FUNCTION INTRODUCTION	13
2.1 Card Verification ★	13
2.2 Fingerprint Verification★	14
2.3 Wired Remote Control★	15
2.4 Wireless Remote Control★	18
3 CONTROL SYSTEM INTRODUCTION	20
3.1 Wiring Diagram	20
3.2 Turnstile Control Board.....	21
3.3 Access Control Board.....	24
4 DEFAULT PARAMETERS	27
5 TROUBLESHOOTING.....	28
6 PRECAUTION.....	29
7 MAINTENANCE	31
7.1 Chassis Maintenance	31
7.2 Movement Maintenance.....	31
7.3 Power Supply Maintenance	31
8 PACKING LIST	32

1 Overview

The TS1200 Pro series is part of an innovative semi-automatic tripod turnstile series. It features a dual-core design, making it an affordable and practical product. The shell is made of high quality 304 stainless steel, and the parts are treated with anti-corrosion coating for enhances durability. The top cover panel of the TS1200 Pro series, which integrated general access control, is customizable based on different verification modes. It can support controller★, RFID reader★ or fingerprint reader★, depending on the specific requirements. Additionally, thanks to its small and compact body design, the TS1200 Pro series operates smoothly and quietly while consuming minimal power.

Our Pro series tripod turnstiles represent a classic and reliable solution for safeguarding your premises. They are extensively utilized in a wide range of indoor environments due to their versatility. These turnstiles are an ideal economical choice for office buildings and other similar applications, seamlessly integrating into the overall setting.



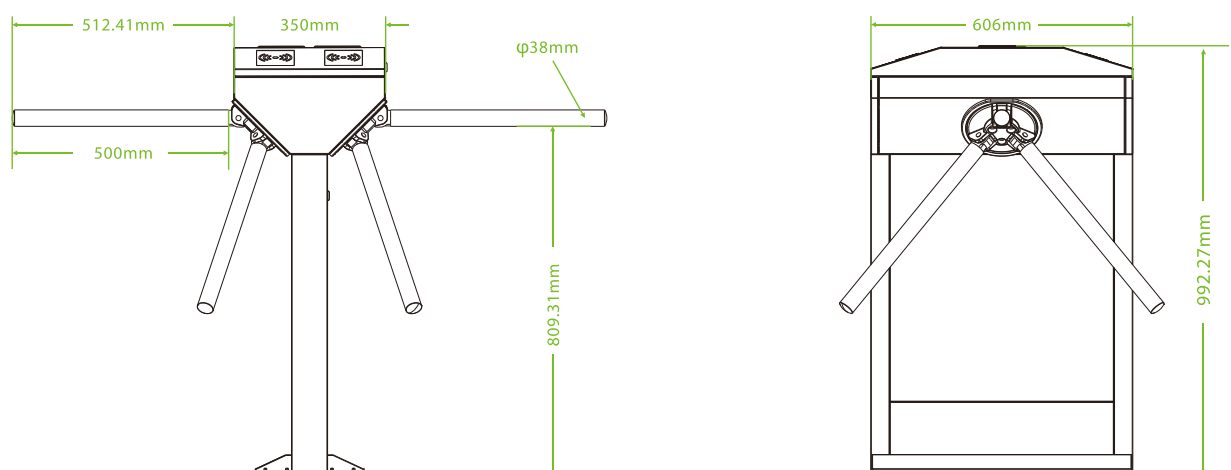
1.1 Features

- Long service life, capable of opening and closing the gate more than 2 million times when measured.
- Drop arm automatically during power off.
- Self-protection function to prevent strong intrusion, excessive current and other special circumstances, such as damage to the product, death, etc.
- Supports fire-alarm linkage: the arm drops automatically when a fire signal is received, accompanied by an emergency alarm.
- SUS304 stainless steel housing.
- LED pictograms for intuitive user experience and high throughput in both directions
- High reliability with cost-effective design.
- Low power consumption.
- Easy and simple installation process.

1.2 Appearance and System Components

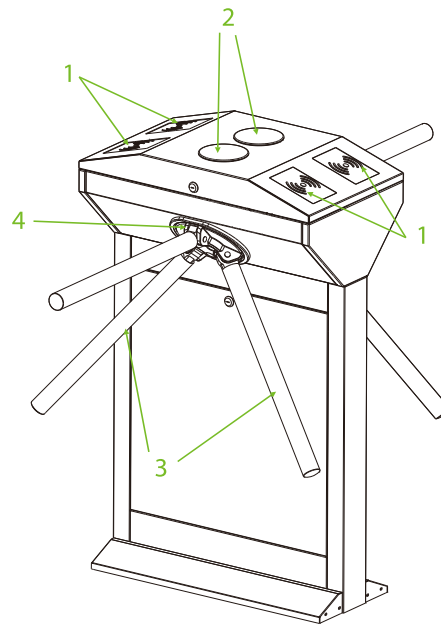
1.2.1 Appearance

The appearance and dimensions of the TS1200 Pro series are shown in the figure below:



1.2.2 System Components

The system components of the TS1200 Pro series are shown below:



1. Verification Units	2. Traffic Indicator
3. Arm	4. Disk Wheel

1.3 Model Number and Access Control

Model No.	Controller	RFID Reader	Fingerprint Reader
TS1200 Pro			
TS1211 Pro	√	√	
TS1222 Pro	√	√	√

1.4 Mechanical System

The mechanical system of the tripod turnstile consists of the chassis and the core components. The chassis serves as a carrier for the installation of the Traffic Indicator, RFID Reader★, Fingerprint Reader★ and Door lock.

1.5 Electronic Control System

The electronic control system of a tripod turnstile mainly consists of the RFID Reader★/Fingerprint reader★, Turnstile control board and Traffic Indicator.

RFID Reader★: The reader reads the data on the card and transmits it to the Access Controller.

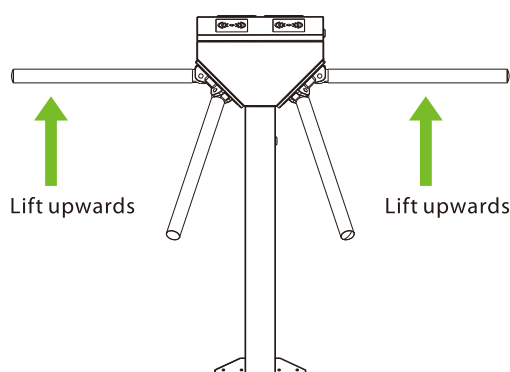
Fingerprint Reader★: The device compares the fingerprint being pressed onto the fingerprint reader with the stored fingerprint data and transmits it to the Access Controller.

Turnstile Control Board: The turnstile control board serves as the control center of the system, receiving signals from the reader and the dry contact. It performs logical calculations and processing of these signals, and subsequently sends executive commands to the traffic indicator and the arm.

Traffic Indicator: The system will illuminate the red indicator when the gate is closed. When someone passes the verification, the system will illuminate the green indicator.

1.6 Power-On Self-Test

1. Please make sure that the power requirements are strictly to avoid permanent damage to the unit. Input voltage: AC 100 to 120V /200 to 240V. **Note:** The tripod turnstile must be connected to the ground (earth).
2. Power on the tripod turnstile and wait 30s to complete the self-check program.
3. Lift the arms manually, as shown in the diagram below:



4. Check whether the tripod turnstile and the traffic indicators work properly. If there is any problem, please contact the supplier.

1.7 Status of Traffic Indicator

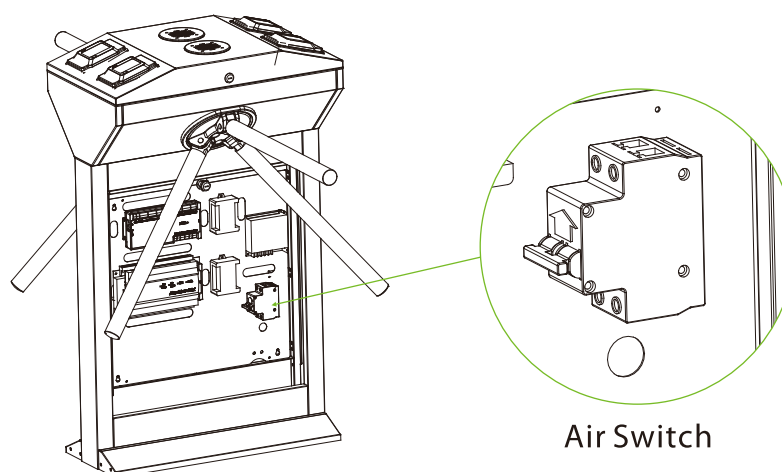
The tripod turnstile is in working state after power-on self-test. The traffic indicator gives pedestrians the corresponding indication of passage.

Standby: ✘

Pass-through (In/Out): ↑

1.8 Working Principle

1. When the device is connected to the power, the system performs the Power-On Self-Test. If no issues are detected during this process, the device will operate normally



2. When a valid Card★/Fingerprint★ is detected, the traffic indicator will display a green light to indicate successful verification to the pedestrian. And then, the reader sends signals to the Access Controller to request permission to pass through the passage. The Access Controller will send the signal to the mother control panel.
3. After receiving the signal from the Access Controller, the turnstile control board sends valid control signals to the solenoid.
4. Pedestrians should follow the traffic indicator and gently push the unlocked arm; the arm will automatically rotate till the pedestrian passes through the channel.
5. If a pedestrian enters the passage without successfully verifying their identification or if their card★/fingerprint★ is invalid, the system will not grant passage. Only when a valid card★/fingerprint★ is successfully confirmed, the pedestrian will be allowed to pass through the passage.

Note: Make sure the ground wire of the system is reliably connected to avoid personal injuries or other accidents.

1.9 Technical Specifications

Model	TS1200 Po Series
Visual Indicator	Steady green=Open Steady red=Close
Audio Indicator	Internal buzzer
Lane Type	Dual lane (support bi-directional)
Lane Width	550mm
Barrier Movement Type	Rotating (tripod)
Tripod Length	500mm
Footprint	605*252mm
Lid Material	SU304 stainless steel
Lid Options	Streamlined (with mount options)
Authentication Methods	Fingerprint, RFID
Chassis Material	SU304 stainless steel (T=1.2mm)
Chassis Color	Silver/grey
Barrier Material	SUS304 stainless steel
Motherboard Function	Tripod (drop arm) duration; access mode configuration
Motherboard Communication	Fire alarm port (relay)*1, RS485 port*1
Controller	C3-200 Plus (recommended); InBio 260 Pro Plus or third-party controller subject to turnstile chassis space
Credential Options	Under Mount RFID Reader: ProID10/KR series Under Mount Fingerprint Reader: FR1200/FR1500
Flow Rate	RFID: 25 passengers per minute Fingerprint: 20 passengers per minute
Accessibility	Adult, Children (with care), Disability (with care)
Power Supply	110V / 220V AC \pm 10% 50/60Hz; DC 12V
Power Rating	10VA (Standby) 40VA (Operation)
Fire Signal	Input for voltage free contact
Noise Level	Less than 60dB
MTTR	Less than 60 minutes
MCBF	2 million

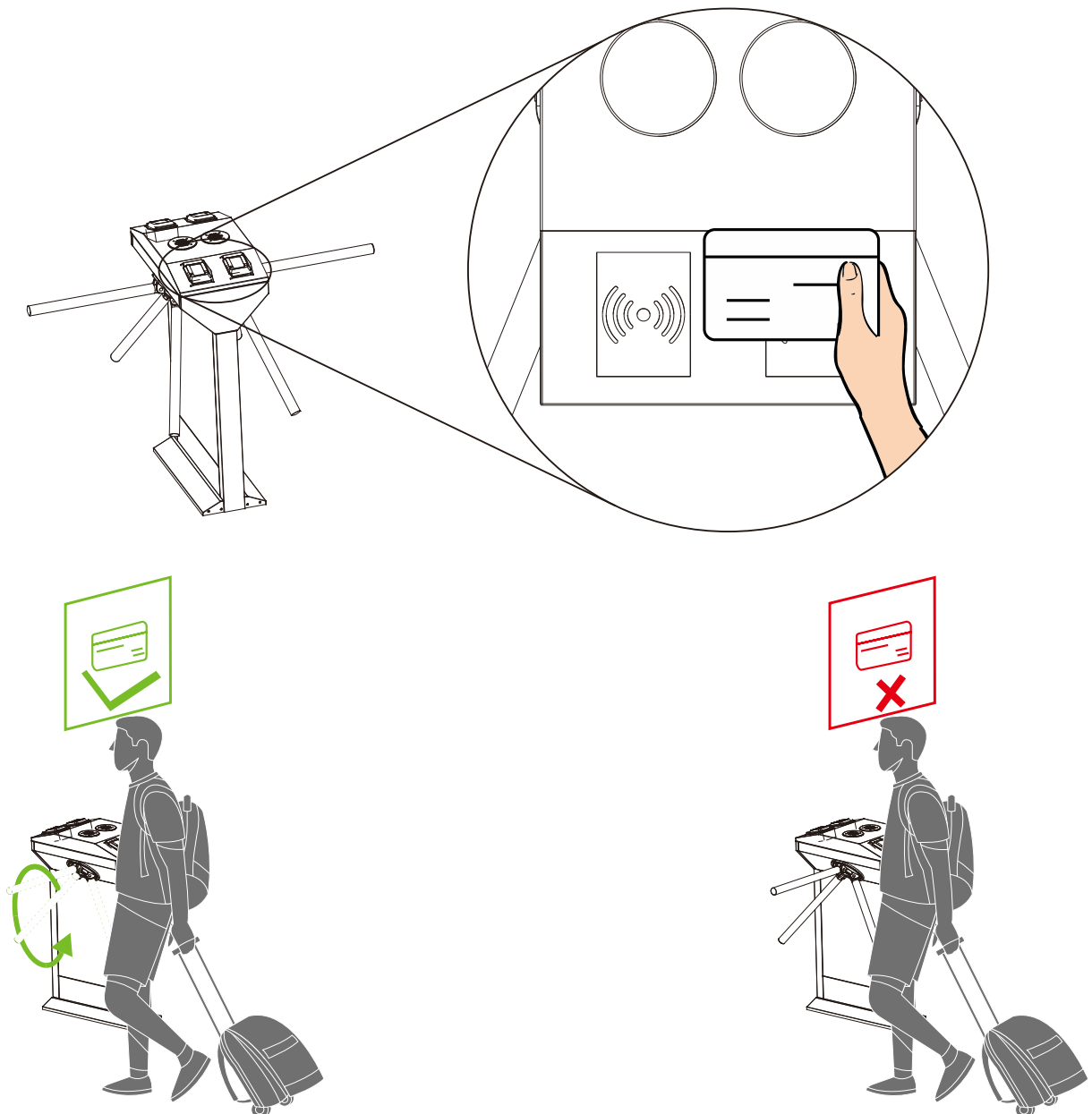
Weight	Gross weight: 85kg Net weight: 65kg
Dimension (L*W*H)	1374*606*992mm
Dimensions with Packing (L*W*H)	470*750*1100mm
Operating Temperature	-20°C to 70°C
Operating Humidity	0% to 80% RH (Non-condensing)
Certifications	CE, FCC
Ingress Protection Rating	Tested to IPX4-level water resistance (self-lab test result)
Supported Software	ZKBio CVAccess / ZKBio CVSecurity (expands functionality for access control)
Safety Levels	Auto-locking tripod upon authentication failure; drop arm during power off or power outage
Security Features	Anti-tailgating
Product Delivery	Pre-assembled
Application Environment	Indoor/Outdoor (if sheltered)
Site Preparation	Flat level finished floor (base plate in options for unfinished floor)
Security Level	Medium
Emergency Mode	Support (drop arm)
Packing Material	Wooden box (standard)

2 Function Introduction

2.1 Card Verification ★

The Card Verification mode compares the card number in the card induction area with all the card number data registered in the device and sends it to the Access Controller.

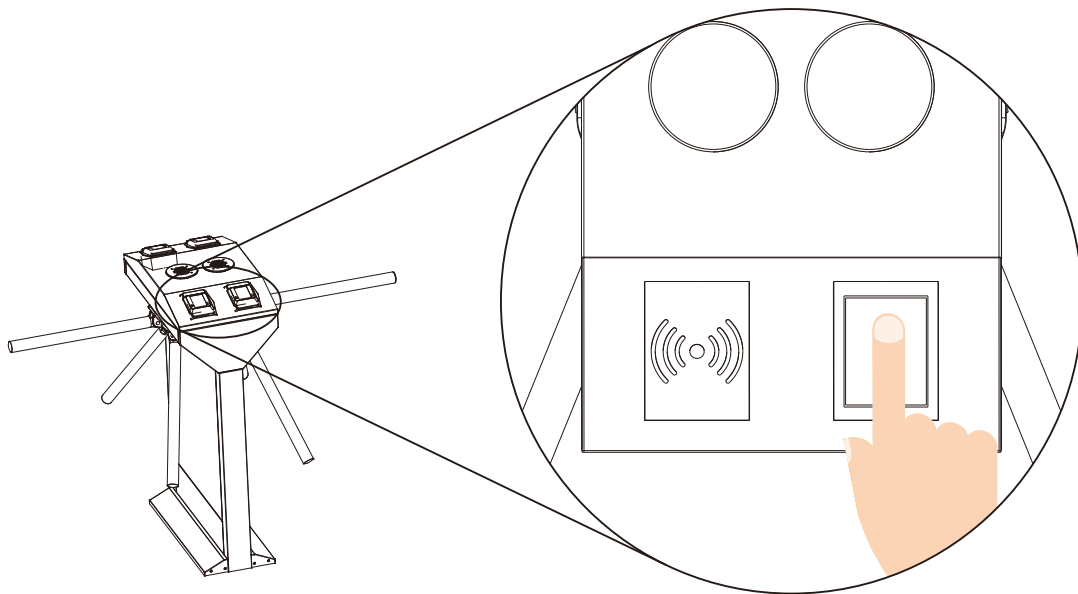
When a user places their card on the card reading area, the device enters card authentication mode.



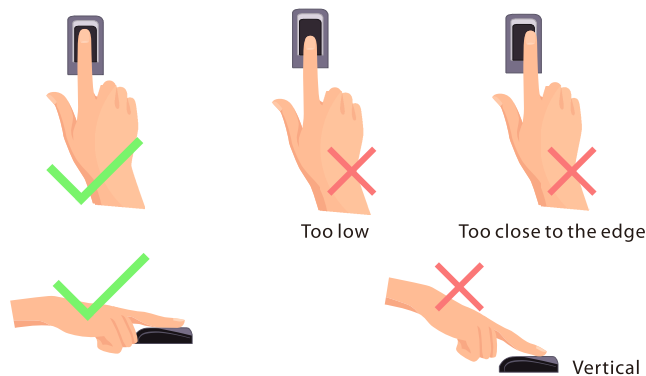
2.2 Fingerprint Verification★

In this verification mode, the device compares the fingerprint that is being pressed onto the fingerprint reader with all the fingerprint data sends it to the Access Controller.

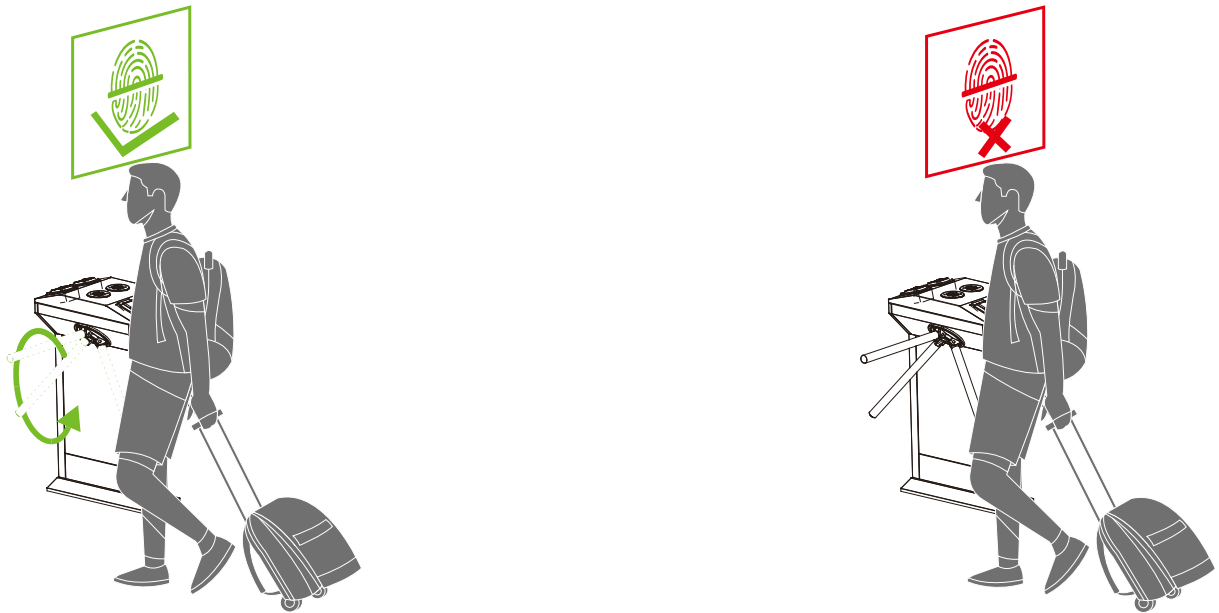
When a user places their finger onto the fingerprint scanner, the device enters the fingerprint authentication mode.



Recommended fingers: It is recommended to use index, middle, or ring finger for registration and avoid using the thumb or little finger, as they are difficult to accurately press onto the fingerprint reader.

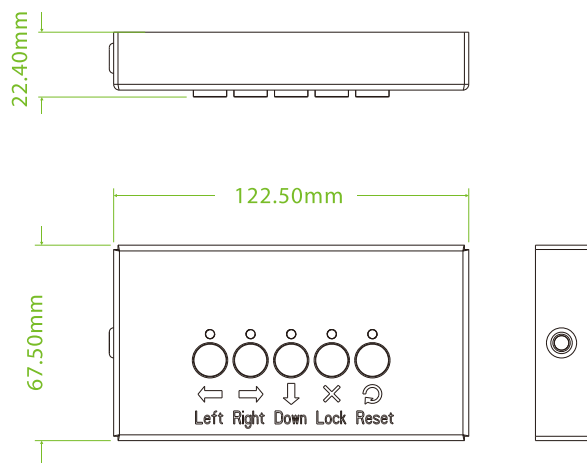


Note: Please use the correct method when pressing your fingers onto the fingerprint reader for registration and identification. Our company will assume no liability for recognition issues that may result from incorrect usage of the product. We reserve the right of final interpretation and modification concerning this point.




2.3 Wired Remote Control★





The wired remote control has five buttons: the Left button, Right button, Down button, Lock button, and Reset button. These five independent buttons have individual functions as well as combined functions. Pressing two buttons within the specified time interval can call up a predefined mode.















The following tables describe the modes of different button press actions:

1. Independent functions:

Button	Description
	Press the button once to open the tripod turnstile and can pass by identity verification from the inbound.

	Press the button once to open the tripod turnstile and can pass by identity verification from the outbound.
	In emergency mode, press the button once to fall the arm lever. Then the inbound and outbound sides get open and can pass freely without identity verification.
	Press the button once to raise the arm lever. Then the inbound and outbound sides are controlled by the tripod turnstile. The identity verification becomes invalid, and no pass is allowed.
	Press a button once to restore the default inbound and outbound identity verification pass mode of the arm.

2. Combined functions:

Status	Description
Inbound free, Outbound control	Press "  " twice to open the tripod turnstile on both sides. The inbound side is free to pass without identity verification and can pass by identity verification from the outbound.
Inbound control, Outbound free	Press "  " twice to open the tripod turnstile on both sides. The outbound side is free to pass without identity verification and can pass by identity verification from the inbound.
Inbound free, Outbound free	Press "  " and "  " at the same time to open the tripod turnstile on both sides and both inbound and outbound sides can pass freely without identity verification.
Inbound forbidden, Outbound free	First press "  " once, and then press "  " once, then the inbound side is forbidden to pass, and the outbound side is free to pass without identity verification.
Inbound free, Outbound forbidden	First press "  " once, and then press "  " once, then the outbound side is forbidden to pass, and the inbound side is free to pass without identity verification.
Inbound control, Outbound forbidden	First press "  " once, and then press "  " once, then the outbound side is forbidden to pass, and the inbound side needs to identity verification to pass.
Inbound forbidden, Outbound control	First press "  " once, and then press "  " once, then the inbound side is forbidden to pass, and the outbound side needs to identity verification to pass.

The wired remote control is connected to the controller, then set the controller's code pairing mode to complete the wired remote control's setup.

Dial code description:

The DIP switch is divided in eight dial codes from KE-1 to KE-8. Move the switch Up to turn ON and down to turn OFF.

Description of Function Setting:

- Dial 0 to turn OFF.
- Dial 1 to turn ON.

Dial code function item:

- **Unmanned passage time (KE-1, KE-2, KE-3):**

Dial code function item:

Switch Status	Time Period
000 (OFF OFF OFF)	5s (Default)
001 (OFF OFF ON)	10s
010 (OFF ON OFF)	15s
011 (OFF ON ON)	20s
100 (ON OFF OFF)	30s
101 (ON OFF ON)	40s
110 (ON OFF ON)	50s
111 (ON ON ON)	60s

- **Memory Swipe Mode (KE-6):**

Dial 1 (ON) to turn on.

Dial 0 (OFF) to turn off.

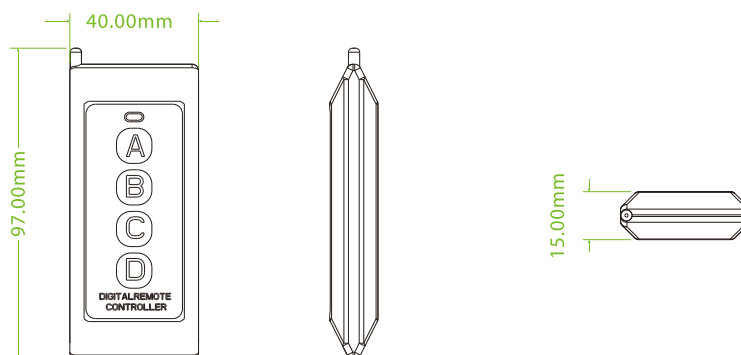
- **Turn on Alarm Mode (KE-8):**

Dial 1 (ON) to turn on.

Dial 0 (OFF) to turn off.

2.4 Wireless Remote Control★

The tripod turnstile's wireless remote control is an intelligent device that remotely controls the entrance and exit. It is designed for the administrator to control the tripod turnstile manually. The wireless remote control contains four buttons: A, B, C, and D, which correspond to the options open entrance gate, open exit gate, emergency mode open-bar pass, and alarm lock.



Buttons	Description
A	Press the button once to open the tripod turnstile on the inbound and can pass by identity verification from the inbound.
B	Press the button once to open the tripod turnstile on the outbound and can allow people to pass after their identity verification from the outbound.
C	In emergency mode, press the button once to fall the arm lever. Then the inbound and outbound sides get open and can pass freely without identity verification.
D	Press the button once to raise the arm lever. Then the inbound and outbound sides are controlled by the tripod turnstile. The identity verification becomes invalid, and no pass is allowed.

The wireless remote control is not in communication with the controller when the controller is turned on. Press and hold the controller's DIP switch to enter code pairing mode and operate the remote control using the controller's eight DIP switch codes.

Pair code:

1. First, power the controller of the tripod turnstile.
2. Short press the learning button on the controller, and a light corresponding to the button will flash slowly. Then press any switch on the remote control for acquiring the information. After the successful operation, the light turns off.

Clear code:

Long press the learning button on the three roller gate controller for 3 seconds. The learning light stays on for a while then turns off indicating the code is cleared successfully. The original learning remote control cannot be used again and can only be remote-controlled by the code again.

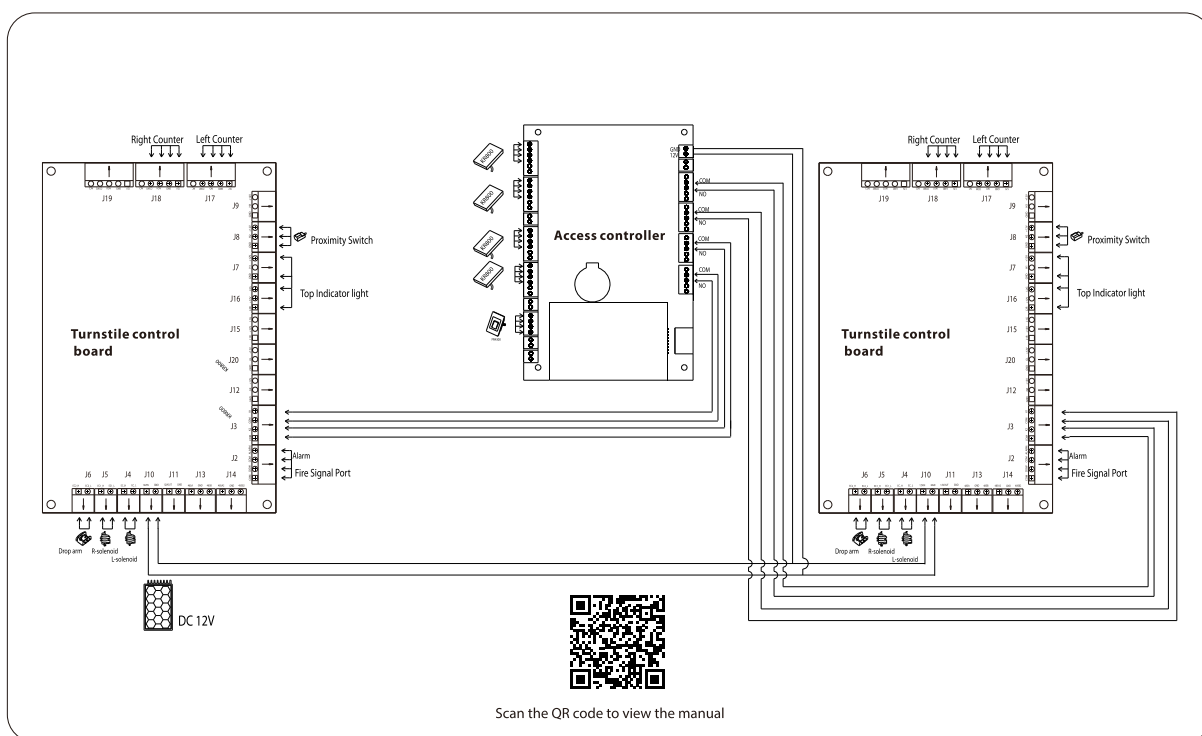
3 Control System Introduction

If you are using TS1211 Pro or TS1222 Pro models, all the connections between the access control and turnstile control boards are already completed at the factory. Just plug in communication cable to access controller and proceed with the necessary settings.

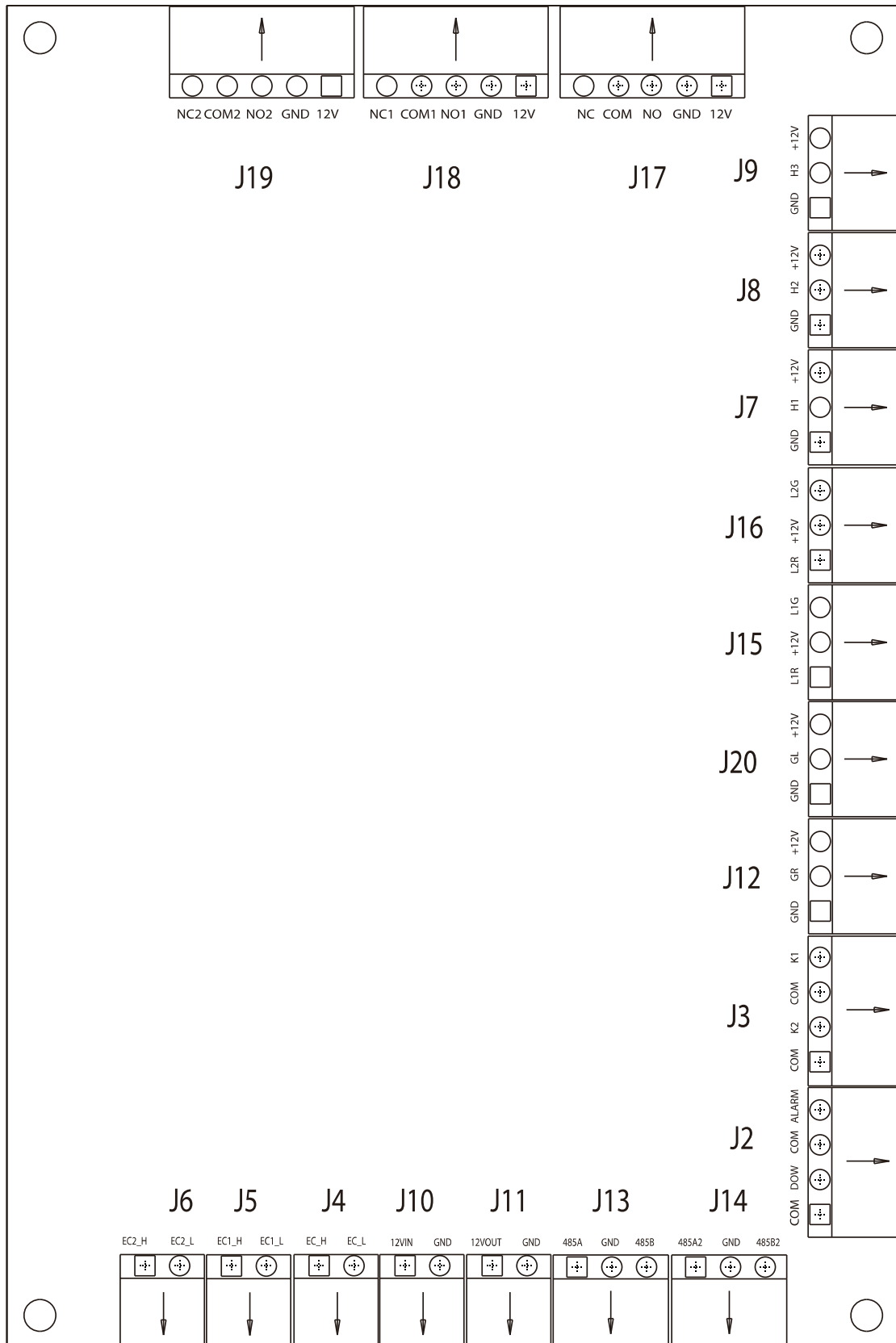
If you are using TS1200 Pro model, it is important to connect access control system to the control board, please check the content in this chapter carefully.

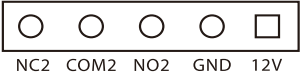

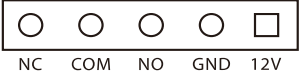


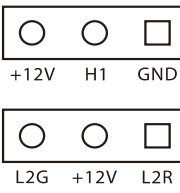







Warning: The lock relay trigger time for the third-party access control system should be set to 1 second or less.





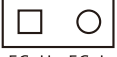


3.1 Wiring Diagram



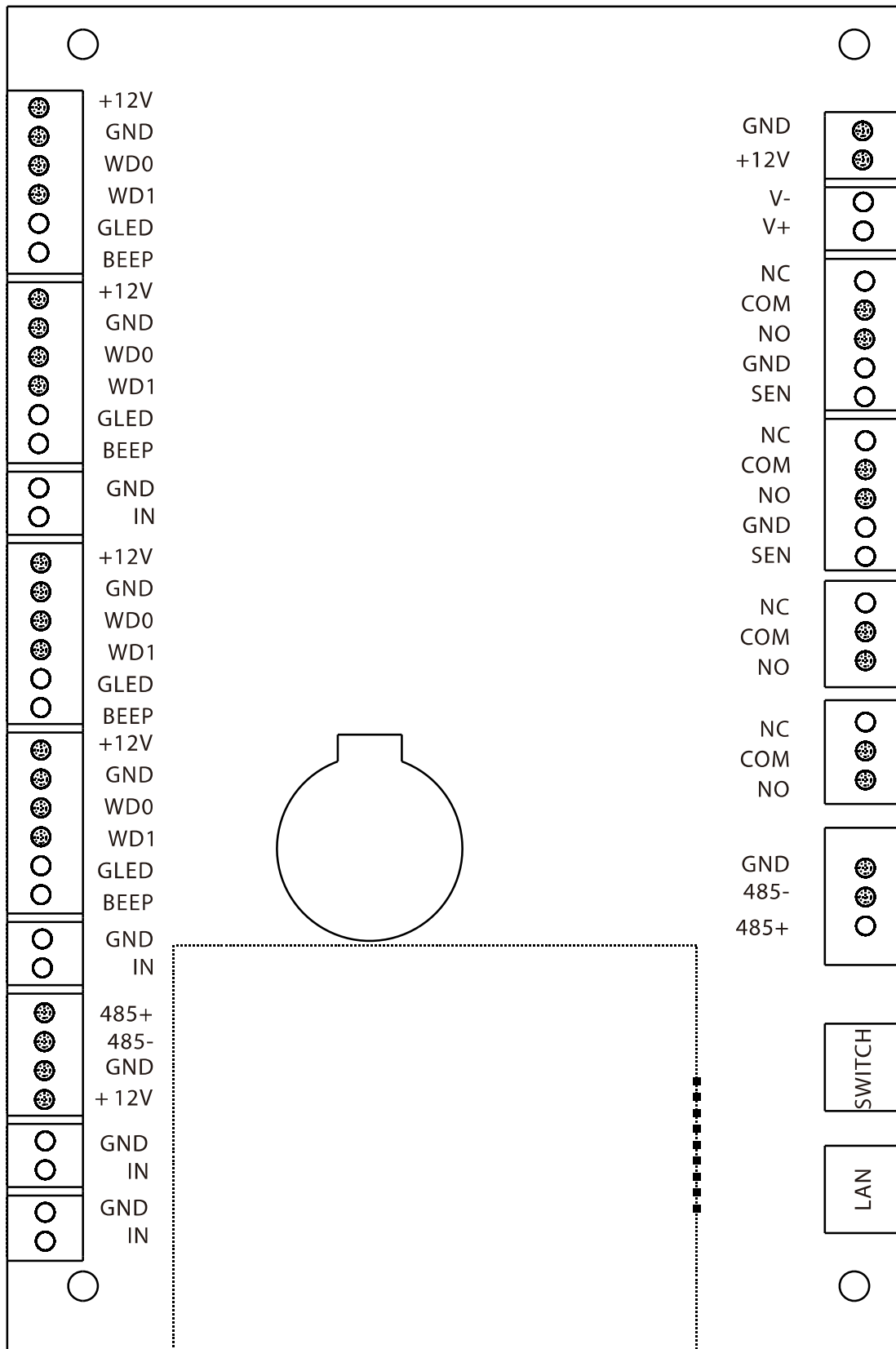
3.2 Turnstile Control Board

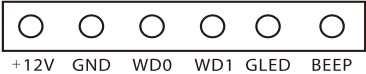










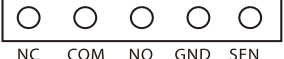
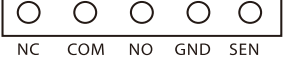


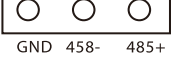




Terminal	Description
 <p>NC2 COM2 NO2 GND 12V</p> <p>J19</p>	Reserved
 <p>NC1 COM1 NO1 GND 12V</p> <p>J18</p>	Right Counter
 <p>NC COM NO GND 12V</p> <p>J17</p>	Left Counter
 <p>+12V H3 GND</p> <p>J9</p>	Reserved
 <p>+12V H2 GND</p> <p>J8</p>	Proximity Switch
 <p>+12V H1 GND</p> <p>L2G +12V L2R</p> <p>J7 / J6</p>	Top Indicator Light
 <p>L1G +12V L1R</p> <p>J15</p>	Reserved
 <p>+12V GL GND</p> <p>J20</p>	Reserved
 <p>+12V GR GND</p> <p>J12</p>	Reserved
 <p>K1 COM</p> <p>J3</p>	Right Open
 <p>K2 COM</p> <p>J3</p>	Left Open
 <p>ALARM COM</p> <p>J2</p>	Alarm
 <p>DOW COM</p> <p>J2</p>	Fire Signal

 485A2 GND 485B2	J14	RS485
 485A GND 485B	J13	RS485
 12VOUT GND	J11	12V Power Supply Output
 12VIN GND	J10	12V Power Supply Input
 EC_H EC_L	J4	L-solenoid
 EC1_H EC1_L	J5	R-solenoid
 EC2_H EC2_L	J6	Drop Arm

3.3 Access Control Board



Terminal	Description
 <p>+12V GND WD0 WD1 GLED BEEP</p>	Reader
 <p>+12V GND WD0 WD1 GLED BEEP</p>	Reader
 <p>GND IN</p>	Button
 <p>+12V GND WD0 WD1 GLED BEEP</p>	Reader
 <p>+12V GND WD0 WD1 GLED BEEP</p>	Reader
 <p>GND IN</p>	Button
 <p>485+ 485- GND +12V</p>	RS485
 <p>GND IN</p>	Auxiliary Input
 <p>GND IN</p>	Auxiliary Input
 <p>GND +12V</p>	Power In
 <p>V- V+</p>	Lock
 <p>NC COM NO GND SEN</p>	Lock
 <p>NC COM NO GND SEN</p>	Lock
 <p>NC COM NO</p>	Auxiliary Output
 <p>NC COM NO</p>	Auxiliary Output
 <p>GND 458- 485+</p>	485 Connections

	Switch
	Ethernet

4 Default Parameters

No.	Function	Default
1	Lock Driving Duration	5s
2	Door Sensor	None
3	Verification Interval	1s
4	Controller Communication	TCP/IP: 192.168.1.201
5	Turnstile Opening Duration	5s
6	Passing Direction Indicator	Passing is allowed in both directions
7	Continue Passing Function	Disabled
8	Alarm Function	Disabled

Note: The default Lock Driving Duration is set to 5 seconds. To adjust it to 1 second, please modify the settings accordingly.

5 Troubleshooting

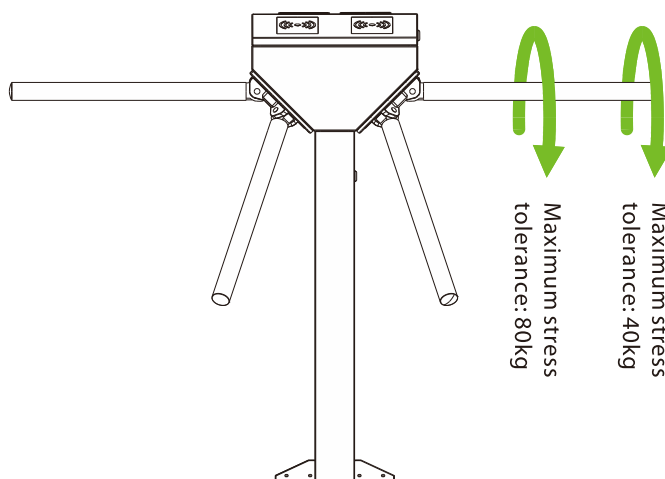
Failure Description	Solution
The indicator is not lighted when the equipment is powered on	<p>It may be caused by the power supply or circuit.</p> <ul style="list-style-type: none"> ● Check whether the connection cable and power cable between are damaged, or the wiring is loose.
The device can't be manually lift arm after powering on	<ul style="list-style-type: none"> ● Check whether the limit seat is properly aligned with the the disk wheel when lifting the arm. ● Check whether the arm drop magnet is working properly, open the upper cover of the chassis, open the movement cover with a hexagonal screwdriver and check the working status of the electromagnet.
No gate opening after authentication	<ul style="list-style-type: none"> ● Check whether the user has permission. ● Please refer to the 3 wiring diagram to check the wiring.
After opening the gate, the passage is not smooth, the resistance of the push rod is large, and the rotation cannot be homed	<ul style="list-style-type: none"> ● The tension spring can be adjusted by adjusting the live joint bolt at the tension spring.
Dropping the arm during use	<ul style="list-style-type: none"> ● Check if the limit seat is properly aligned or if there is a gap. ● Check whether the arm drop magnet is fully engaged. If it is not fully engaged, please power off for 2 minutes and then power on.
Continuous single-sided passage during use, without locking the lever.	<ul style="list-style-type: none"> ● Check if the gate opening magnet is working properly, open the top cover of the device and open the movement cover with a hexagonal screwdriver. Check if the gate opening magnet is stuck or the shrapnel is disconnected.

6 Precaution

1. It is recommended to purchase optional accessories to use in outdoor environment.
 - a) Optional cooling fans should be installed for the equipment if the working temperature is frequently above 50 °C.
 - b) It is equivalent to IPX4 waterproof under proper installation. However, it cannot work in the region that may suffer typhoon.
 - c) If the temperature reaches -30 °C, it is recommended to install a heating plate. It might need multiple times to power on while getting hot automatically through the self-check program.
 - d) The service life of this equipment may be reduced if it is used outdoors in coastal areas or regions prone to acid rain.
2. If the power and signal cables are connected properly, this equipment can be submerged in water up to a depth of 250 mm, but it must not be powered on for operating when it is submerged in water.
3. It is highly recommended that a card swiping warning line to set for prompting passers-by to swipe cards properly and a reasonable passage width shall be set to prevent passers-by from squeezing in illegally.
4. It is recommended that a warning sign is placed at a conspicuous position, and prompt: "**Please swipe your card outside the warning line and pass in order. Thank you!**"

The maximum tolerance of the tripod turnstile's arms

Please note that the maximum stress tolerance at the center of the arm is 80kg and at the ends of the arm is 40kg. When the impact force on the tripod turnstile reaches the designed limit, the arms will break down first to prevent damage to the entire equipment and ensure the safety of passers-by.



In case of emergencies

This equipment is designed to automatically lower the arms in the event of a power failure, allowing the passage to be open for the public. Additionally, the turnstile control board provides an interface to connect an emergency switch (Drop Arm), which keeps the tripod turnstile in an open position during emergencies. Please note that after power is restored, it is important to wait for more than 6 seconds before lifting the arms manually.

7 Maintenance

7.1 Chassis Maintenance

The chassis is made of SUS304 stainless steel or cold rolled sheet steel. If it has been used for a long time, the surface may develop rust stains. It is recommended to clean the surface regularly with a clean cloth. Additionally, apply a coat of anti-rust oil to the surface, ensuring not to cover the infrared sensor.

7.2 Movement Maintenance

Before doing maintenance, turn off the power. Open the door, wipe the surface dust, and apply lubricant for smooth movement.

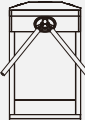





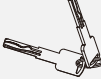


7.3 Power Supply Maintenance

- Switch off the power supply before maintenance.
- Check the power plug connection, if found loose, fix it properly.
- Do not change any connection position randomly.
- Check the external power supply insulation periodically.
- Do periodic check for any kind of leakage.
- Check if the technical parameters of interface are normal.
- Check the service life of the electronic components and replace accordingly.

Caution: All the maintenance methods mentioned above for swing barrier should be performed by a professional technician, particularly when dealing with the movement and electric control components. To ensure operational safety, it is crucial to switch off the power supply when the barrier is not in use.

8 Packing List

The package consists of the following items:

	TS1200 Pro Series	1
	Power Cable	1
	Expansion Screw M12*100	4
	Stainless Steel Maintenance Wipes	2
	Hex Wrench	2
	Allen Screw	6
	Key	2
	Washer	6
	Expansion Screw Washers	4

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