

(2) Remove the screws on the

bottom of device.

Version: 1.2 Date: May, 2020

1.Equipment Installation



(1) Post the mounting template on the wall. Drill the holes according to the marks on the template (holes for screws and wiring).



(4) Fix the plastic pad and the back (5) Tighten the screws on the bottom, mounting paper.

plate on the wall according to the fix the device to the back plate.

Note: To effectively protect the device from water and dust, TF1700 must be installed vertically perpendicular to the ground.



(3) Take away the back plate.

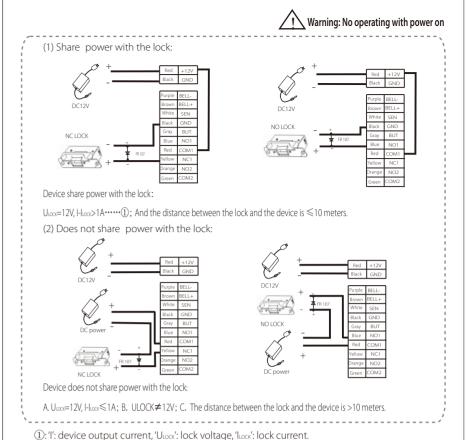
2.Structure and Function

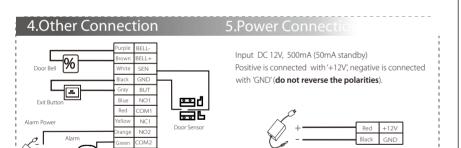
Access Control System Function

- (1) If a registered user verified, the device will export the signal to unlock the door.
- (2) Door sensor will detect the on-off state If the door is unexpected opened or improperly closed, the alarm signal (digital value) will be triggered.
- (3) If only the device being illegally removed, the device will export alarm signal.
- (4) External card reader is supported.
- (5) External exit button is supported, it is convenient to onen the door inside
- (6) External door bell is supported.
- (7) Supports RS485, TCP/IP modes to connect with PC. One PC can manage multiple devices.

3.Lock Connection

- (1) The system supports NO lock and NC lock. For example the NO lock (normally open at power on) is connected with "NO" and "COM" terminals, and the NC lock is connected with "NC" and "COM" terminals
- (2) When the electrical lock is connected to the Access Control System, you need to parallel one FR107 diode (equipped in the package) to prevent the self-inductance EMF affect the system, do not reverse the polarities.

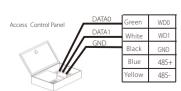




6. Wiegand Output

The device supports standard Wiegand 26 output, so you can connect it with most of the access control devices by now.

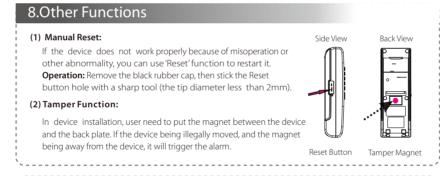
Alarm Voltage output ≤ DC 12V



The device has the function of Wiegand signal input. It supports to connect with an independent card reader! They are installed each side of the door, to control the lock and access together.

			+12V
	Red	+12V	GND
	Black	GND	
	White	IWD1	DATA1
	Green		DATA0
		IWD0	RLED
	Blue	RLED	
	Gray	GLED	GLED
	<u> </u>		BEEP /
	Purple	BEEP	

(1) Please keep the distance between the device and Access Control or Card Reader less than 90 meters (Please use Wiegand signal extender in long distance or interference environment). (2) To keep the stability of Wiegand signal, connect the device and the access control or card reader in same 'GND' in any case.



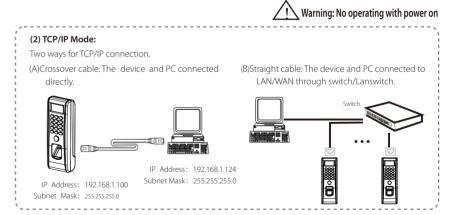
9. Communication

There are two modes that the PC software communicate and exchange information with the device: RS485 and TCP/IP, and supports remote control.

(1) RS485 Mode:

and bus-type wiring.

Please use specified RS485 wire, RS485 active converter 485+ RS485+ 485-RS485-Terminals definition please refers to the right table



10. Cautions

(1) Power cable is connected after all the other wiring. If the device is working abnormally, please shut down the power first, then make the necessary check. Kindly reminds you that any hot-plugging may damage the device, and it is not included in the warranty.

(2) We recommend the DC 3A/12V power supply. Please contact our technical staff for details.

(3)Please read carefully the terminal description and wiring by rule strictly. Any damage caused by improper operations will be out of the range of our guarantee.

(4) Keep the exposed part of wire less than 5mm, to avoid unexpected connection.

(5) **Please connect the 'GND'** before all the other wiring especially under the environment with much

(6)Do not change the cable type because of long distance between the power and the device.

(7) Please use specified RS485 wire, RS485 active converter, and adopt bus-type wiring. If the communication wire is longer than 100 meters, it is needed to parallel a terminal resistance on the last device of RS485 bus, and the value is about 120 ohm.