

BLUETOOTH APARTMENT ACCESS CONTROLLER MANUAL

Overview

MTB-ACS is a Bluetooth access control controller, which is specially developed for apartments/hotels/homestays. It can be directly controlled by a card, password or mobile phone authorization issued by a networked lock management software (or APP). Through easy management of drop bolt, magnetic lock etc, it improves access control safety effectively.

Specifications

Access way	Mifare card, Password, APP (Bluetooth)
User capacity	889 card / password, not includes offline issued cards.
Application	Apartment entrance door access control
Power Supply	12VDC
Current	120mA
Dimensions	100mm X 60mm X 12mm
Working Temperature	-10 ~ 65°C
Humidity	20% ~ 93%
Wireless standard	<input checked="" type="checkbox"/> BLE4.2 <input checked="" type="checkbox"/> 434MHz
Input	<input checked="" type="checkbox"/> Exit switch signal <input checked="" type="checkbox"/> Password input
Output	<input checked="" type="checkbox"/> Dry node signal 1group (NO/NC/COM)
Self-check function	<input checked="" type="checkbox"/> Power-on check <input checked="" type="checkbox"/> Operate check <input checked="" type="checkbox"/> Watchdog
Time management	<input checked="" type="checkbox"/> Freeze, enable, delete single/all keys <input checked="" type="checkbox"/> Add time-based password, card, fingerprint <input checked="" type="checkbox"/> Offline time-based password <input checked="" type="checkbox"/> One time password (valid for 30mins) <input checked="" type="checkbox"/> Add time-based wechat key
Status detect	<input checked="" type="checkbox"/> Latch <input checked="" type="checkbox"/> Deadbolt <input checked="" type="checkbox"/> electric quantity
Alarm function	<input checked="" type="checkbox"/> Low power supply <input checked="" type="checkbox"/> Tamper alarm <input checked="" type="checkbox"/> Pick-lock
Safety function	<input checked="" type="checkbox"/> Random password <input checked="" type="checkbox"/> Anti-replay attach <input checked="" type="checkbox"/> Random ekey assignment
Control platform	<input checked="" type="checkbox"/> Wishome APP <input checked="" type="checkbox"/> Wishome PC terminal

Factory Status



In factory status, input 123456# to unlock.

In factory status, after waking up keypad, number 5 flashes. After room or access controller installation, factory status will be exited.

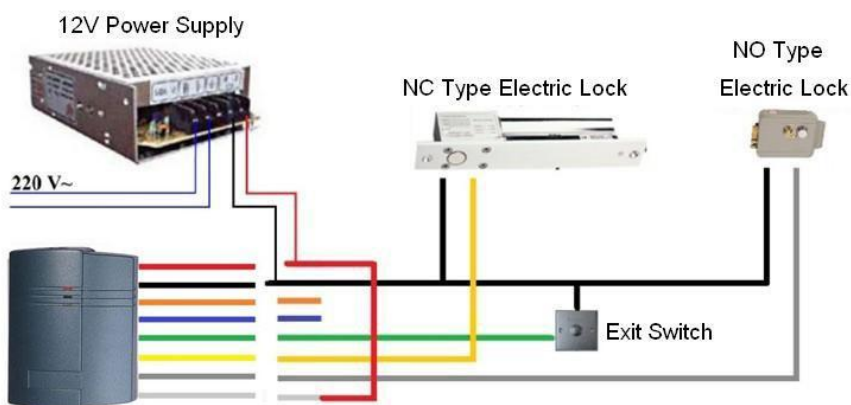
Cabling Specifications

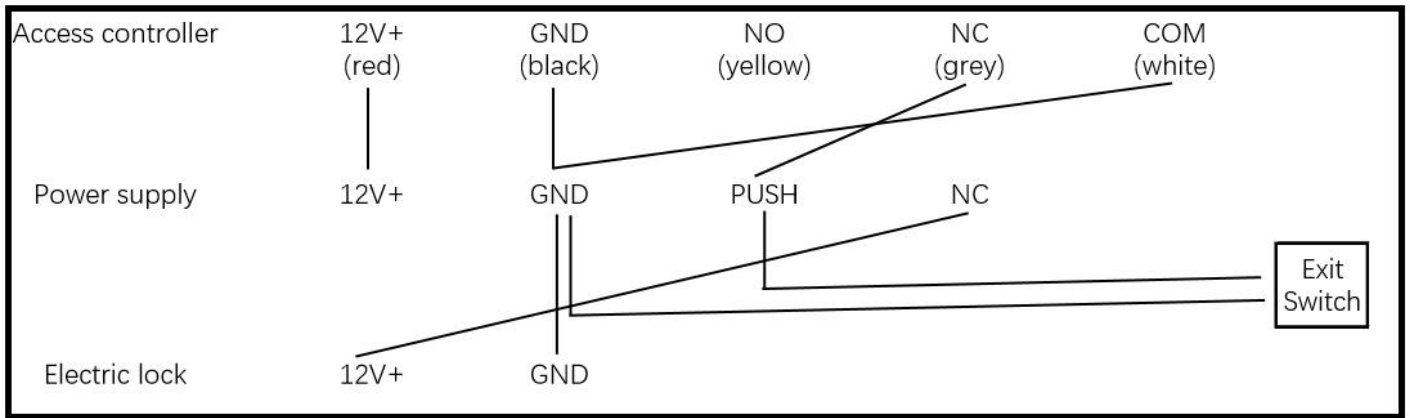


	Red	+12VDC
	Black	-12V GND
	Orange	Wiegand Data 0
	Blue	Wiegand Data 1
	Green	Exit switch
	Yellow	Normal Open NO
	Grey	Normal Close NC
	White	COM

Name	Color	Specifications
+12V	Red	Positive input of the power supply
GND	Black	GND of the power supply
DATA0	Orange	Data 0 output of the Wiegand interface
DATA1	Blue	Data 1 output of the Wiegand interface
SW	Green	Exit switch input
NC	Yellow	Normal close output to connect with device of NC type
NO	Grey	Normal open output to connect with device of NO type
COM	White	Common port, can be connected to positive pole of the power supply

Cabling Diagram





Remarks:

1. If the electric lock is fail-secure type (e.g. electric rim lock), please connect 12V+ of the lock with NO point of power supply.
2. After reading valid card, lock will open for 5sec and then close automatically;
3. Lock can be opened by exit switch, dry contact, or TTL level input;
4. Because of the large working current (around 0.5A) of the lock, cable diameter of the wire between lock and controller must be over 0.5mm². Never use network cable.
5. If more access controlling functions are required, this device can serve as a reader, by connecting 4 cables to more powerful access controller. Other electric lock, exit switch etc devices are also needed to connect with the access controller. After detecting valid cards, card number will be sent in the format of Wiegand26.

Program

Open "Wishome" APP and click "+"	Long press SET button until No.5 flashes on keypad	Wait until adding finishes	Access controller can be opened by APP now.
	<p style="text-align: center; color: red; font-weight: bold; font-size: 1.2em;">Long press</p>		

Remark: in factory status, input 123456# can unlock.

Troubleshooting

Function	Lock sound	
Function Status Indication		
Normal Function Indication	Unlock	Do Re Me
	Successful setting	Long di
	Lock	Auto lock: mute
		Manual lock: do re me
	Initialization	Voice: keep pressing for 8 seconds (one di each second) >>> di di and release >>>one long di means initialization finishes
		Light: after di di, digit 5 turns red and flahes 5 times each second and all LED turns on means initialization finishes
	Initialization status	Di di di means pairing starts
		During pair period, digit 5 white light and red light flashes alternately
	Press digit	Keypad turns off
		Buzzer sounds di
	Add user	Keypad turns on for 30sec
		Buzzer sounds di di
	Error	Di di di
Keypad turns on and off 3 time (digit 5 flahes red color 3 times)		
Synchronizing data	Digit 5 flshes white color 1 time each second	
Upgrading firmware	Digit 5 flshes white color 1 time each second	
Alarm Indication		
Functions Alarm Indication	Pick lock alarm	Di di each second for one minute
		Digit 5 flashes red color each time
	Tamper alarm	Password/card/fingerprint wrong input is same as "Error" indication. After 5 times wrong input, lock alarms and kepad is locked for 1min. Lock sounds di for every 10sec.
		Digit 5 flshes red color 1 time with each di sound
	Low power	Didi-didi-didi
Digit 5 flshes red color 1 time with each di sound		
User is full	Same as "Error" indication	
Power-on Self Check Indication	Power-on self check	Power on, digit 5 flashes 3 times each second
	Self check successfully	Power on music
	Abnormal card check	Di, sounds in 2sec (checktime: 1sec)
	Abnormal low power check	Di di, sounds in 2sec (checktime: 1sec)
	Abnormal initialization button	Di di di, sounds in 2sec (checktime: 1sec)
	Abnormal card reading communication	Di di di di, sounds in 2sec (checktime: 1sec)
	Abnormal touch panel circuit	Di di di di di, sounds in 2sec (checktime: 1sec)
	Abnormal storage chip	Di di di di di di, sounds in 2sec (checktime: 1sec)
	Abnormal fingerprint module	Di di di di di di di, sounds in 2sec (checktime: 1sec)
Without wireless module	No sound (checktime: 2sec)	

