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INTRODUCTION The device is a single door multifunction standalone access controller or a Wiegand output reader. It uses Atmel MCU assuring stable performance. The operation is very user-friendly, and low-power circuit makes it long service life. The device can be made with Bluetooth version or with WIFI version.	
Features > Capacitive fingerprint sensor, Touch key > Metal case, anti-vandal > Waterproof, conforms to IP66 > PIN length 4-6 digits > EM card, EM+ Mifare cards optional > EM card: Wiegand 26-44 bits input & output > Mifare card: Wiegand 26-44bits, 56bits, 58bits input & output > Can be used as Wiegand reader with LED & buzzer output > Card lock enrollment > Tri-color LED status display > Integrated alarm & buzzer output > Pulse mode, Toggle mode > User data can be transferred (except fingerprint users) > 2 devices can be interlocked for 2 doors > Built-in light dependent resistor (LDR) for anti tamper > Backlit keypad, can set automatic OFF after 20 seconds	
Specifications User Capacity Common Card/PIN User 10500 Fingerprint User 9988 Panic User 500 Visitor User 10 Operating Voltage Working Current ≤150mA Idle Current ≤60mA Proximity Card Reader Radio Technology EM / EM + Mifare 125KHz / 125KHz + 13.56MHz Read Range 2-6 cm PIN Length 4-6 digits Wiring Connections Relay Output, Exit Button, Alarm, Door Contact, Wiegand Input, Wiegand Output	
Relay Adjustable Relay Output Time 0-99 Seconds (5 seconds default) Lock Output Load 2 Amp Maximum Wiegand Interface EM card: Wiegand 26-44 bits input & output; Mifare card: Wiegand 26-44bits 56bits, 58bits input & output. (Factory default: Wiegand 26bits for EM card, Wiegand 34bits for Mifare card) 4 bits, 8 bits(ASCII), 10 digits Virtual Number (Factory Default: 4 bits) PIN Output Environment Operating Temperature -30°C ~ 60°C (-22°F ~ 140°F) Operating Humidity 0%RH~98%RH Physical Colour Zinc-Alloy (A/B) ABS(C) Dimensions Silver & Black (A/B) Black(C) L 148 x W43.5 x D22 (mm) → A/C L 165 x W44 x D22 (mm) → B 350g → A 415g → B 190g → C Unit Weight 405g → A 500g → B 280g → C Shipping Weight Carbon Inventory Diode IN4004 (For relay circuit protection) Wall Anchors Self Tapping Screws: 9*4/25mm Screw Driver Master Card Master Card	
INSTALLATION > Remove the back cover from the unit > Drill 2 holes(A,C) on the wall for the screws and one hole for the cable > Knock the supplied rubber bungs to the screw holes(A,C) > Fix the back cover firmly on the wall with 4 flat head screws > Thread the cable through the cable hole(B) > Attach the unit to the back cover A B C Wiring (for Slim device) Wire Color Function Notes Basic Standalone Wiring Red DC+ 12~18V DC Power Input Black GND Negative Pole of DC Power Input Blue & Black Relay NO Normally Open Relay Output (install diode provided) White & Black Relay Common Common Connection for Relay Output Green & Black Relay NC Normally Closed Relay Output (install diode provided) Yellow OPEN Request to Exit(REX) Input Pass-through Wiring (Wiegand Reader or Controller) Green Data 0 Wiegand Output (Pass-through) Data 0 White Data 1 Wiegand Output (Pass-through) Data 1 Advanced Input and Output Features Grey Alarm Output Working contact for Alarm Brown Contact Input Door/Gate Contact Input (Normally Closed) WIFI Version with Doorbell Brown & Black Doorbell A Contact for Doorbell Yellow & Black Doorbell B Contact for Doorbell	
STANDALONE MODE The device can work as Standalone Access Control for single door. (Factory default mode) → 77 # Connection Diagram Common Power Supply Attention: Install a 1N4004 or equivalent diode is needed when use a common power supply, or the keypad might be damaged. (1N4004 is included in the packing) Access Control Power Supply -01-	
Sound and Light Indication Operation Status LED Buzzer Stand by Red light bright --- Enter into programming mode Red light shines One beep In the programming mode Orange light bright One beep Operation error Three beeps Exit from the Programming mode Red light bright One beep Open lock Green light bright One beep Alarm Red light Shines quickly Beeps Basic Configure Enter and Exit Program Mode Programming Step Keystroke Combination Enter Program Mode * (Master Code) # (Factory default is 123456) Exit Program Mode * Set Master Code Programming Step Keystroke Combination 1. Enter Program Mode * (Master Code) # 2. Update Master Code 0 (New Master Code) # (Repeat New Master Code) # (Master code is any 6 digits) 3. Exit Program Mode * Set the Working Mode Notes: The device has 3 working modes: Standalone Mode, Controller Mode, Wiegand Reader Mode, choose the mode you use. (Factory default is Standalone Mode / Controller Mode) Programming Step Keystroke Combination 1. Enter Program Mode * (Master Code) # 2. Standalone/Controller Mode OR 77 # (Factory default) 2. Wiegand Reader Mode 78 # 3. Exit *	
STANDALONE MODE The device can work as Standalone Access Control for single door. (Factory default mode) → 77 # Connection Diagram Common Power Supply Attention: Install a 1N4004 or equivalent diode is needed when use a common power supply, or the keypad might be damaged. (1N4004 is included in the packing) Access Control Power Supply -02-	
STANDALONE MODE The device can work as Standalone Access Control for single door. (Factory default mode) → 77 # Connection Diagram Common Power Supply Attention: Install a 1N4004 or equivalent diode is needed when use a common power supply, or the keypad might be damaged. (1N4004 is included in the packing) Access Control Power Supply -03-	
STANDALONE MODE The device can work as Standalone Access Control for single door. (Factory default mode) → 77 # Connection Diagram Common Power Supply Attention: Install a 1N4004 or equivalent diode is needed when use a common power supply, or the keypad might be damaged. (1N4004 is included in the packing) Access Control Power Supply -04-	
STANDALONE MODE The device can work as Standalone Access Control for single door. (Factory default mode) → 77 # Connection Diagram Common Power Supply Attention: Install a 1N4004 or equivalent diode is needed when use a common power supply, or the keypad might be damaged. (1N4004 is included in the packing) Access Control Power Supply -05-	
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STANDALONE MODE The device can work as Standalone Access Control for single door. (Factory default mode) → 77 # Connection Diagram Common Power Supply Attention: Install a 1N4004 or equivalent diode is needed when use a common power supply, or the keypad might be damaged. (1N4004 is included in the packing) Access Control Power Supply -08-	
STANDALONE MODE The device can work as Standalone Access Control for single door. (Factory default mode) → 77 # Connection Diagram Common Power Supply Attention: Install a 1N4004 or equivalent diode is needed when use a common power supply, or the keypad might be damaged. (1N4004 is included in the packing) Access Control Power Supply -09-	

2 Multi User Access 43 (2-9) # (Only after 2-9 valid users, the door be opened) OR 43 # (factory default) 2. Fingerprint or Card or PIN Access 43 # (factory default) 3. Exit *	
Set Strike-out Alarm The strike-out alarm will engage after 10 failed entry attempts (Factory is OFF). It can be set to deny access for 10 minutes after engaging or disengage only after entering a valid Fingerprint/ card/ PIN or Master code/ Fingerprint/ card.	
Set Audible and Visual Response Programming Step Keystroke Combination 1. Enter Program Mode * (Master Code) # 2. Strike-Out OFF 60 # (factory default) OR 71 # (factory default) 2. Strike-Out ON 61 # Access will be denied for 10 minutes (Exit button is still workable) OR 72 # (factory default) 2. Strike-Out ON (Alarm) 73 # (factory default) Set Alarm Time 5 (0-3) # (factory default is 1 minute) Enter Master Code # or Master Fingerprint/ Card or valid user fingerprint / card / PIN to silence 3. Exit *	
Set Door Open Detection Door Open Too Long (DOTL) Detection When use with an optional magnetic contact or built-in magnetic contact of the lock, if the door is opened normally, but not closed after 1 minute, the inside buzzer will beep automatically to remind people to close the door. The beep can be stopped by closing the door, master users or valid users, or else, it will continue to beep the same time with the alarm time set.	
Door Forced Open Detection When use with an optional magnetic contact or built-in magnetic contact of the lock, if the door is opened by force, the inside buzzer and external alarm (if there is) will both operate, they can be stopped by master users or valid users, or else, it will continue to sound the same time with the alarm time set.	
Master Fingerprint/ Card Usage Using Master Fingerprint/ Card to add and delete users Add Fingerprint/ Card/ PIN Users 1. Input (Master Fingerprint / Card) 2. Input (Fingerprint three times) or (Card) or (User ID#PIN#) Repeat step 2 for additional users 3. Input (Master Fingerprint / Card) again	
Users Operation & Reset to Factory Default > Open the door: Read valid user fingerprint or user card or input valid user PIN # > Remove Alarm: Enter Master Code # or Master Fingerprint/ Card or valid user Fingerprint / card / PIN > To reset to factory default & Add Master Card: Power off, press the Exit Button, hold it and power on, there will be two beeps, then release the exit button, the LED light turns into yellow, then read any 125KHz EM card / 13.56MHz Mifare card, the LED will turn into red, means reset to factory default successfully. Of the card reading, it is the Master Card. Remarks: ① If no Master Card added, must press the Exit Button for at least 5 seconds before release, (this will make the previous registered Master Card invalid) ② Reset to factory default, the user's information is still retained.	
Wiegand Input Formats Please set the Wiegand input formats according to the Wiegand output format of the external Reader. Programming Step Keystroke Combination 1. Enter Program Mode * (Master Code) # 2. Wiegand Input Bit For EM Card: 8 (26-44) # (factory default is 26bits) For Mifare Card: 8 0 (26-44, 56, 58) # (factory default is 34bits) 3. Disable Parity Bit 8 0 # (factory default) 4. Enable Parity Bit 8 1 # (factory default) 4. Exit * Note: For connecting Wiegand readers with 32, 40, 56 bits output, need disable parity bits.	
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