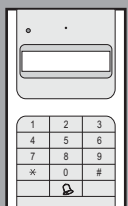




CCTV & Security Distributor

Integrated Access Controller

User Manual



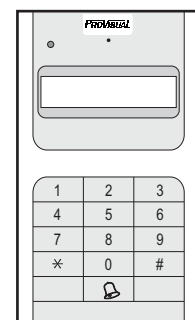
AC-930P

Read the manual before usage and keep for future reference.

http://www.provisualusa.com



1. Model and Appearance



AC-930P

- 1.1 Structure and Appearance design of Provisual AC-930P are patented and any sort/form of copy and counterfeit will be charged.
- 1.2 Color: pure black, black decorated with silver
- 1.3 Size: L×W×H (mm): 150×88×30

2. Important Notices

Failure to follow the instructions below may lead to the malfunction of the system, property damage and even physical injury.

- 2.1 Connection and operation on any components or the controller with power on is strictly prohibited.
- 2.2 Connect the system according to the instructions described in this manual.
- 2.3 The RS232 cable connected to the computer should be no more than 15 meters.
- 2.4 The RS485 cable connected to the computer should be no more than 1200m.
- 2.5 Please use the specified power supply.
- 2.6 The communication mode between the controller and computer should be either RS232 or RS485.



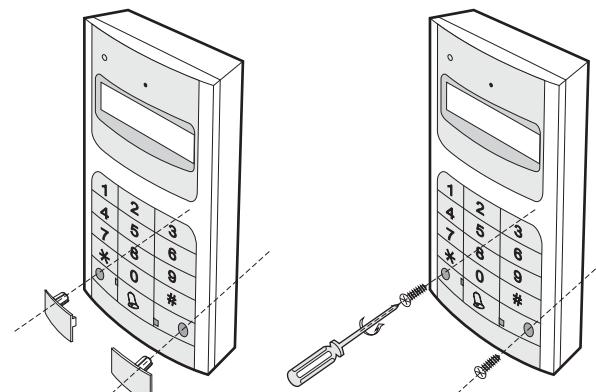
- 2.7 When RS485 mode is applied, a highway can connect maximally 32 controllers with identification address differs from each other.

3. Product Parameters

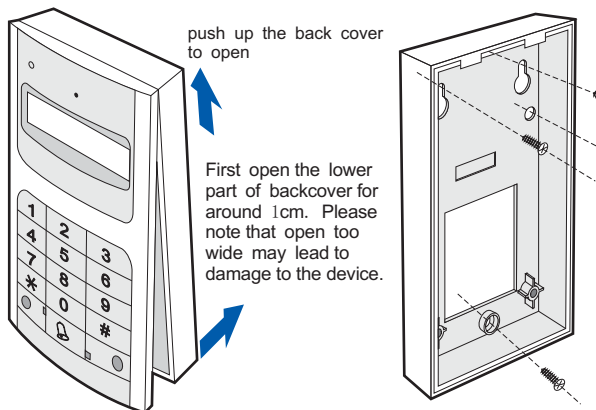
- 3.1 Electric Parameters
 - Working Voltage: DC9-15V
 - Static Current: ≤110mA
 - Input Interface: Stern joint switch input
 - Drive Capability: 2 groups of Type C Relay output, DC12V/3A
 - Power-off Protection: Data will be preserved for 10 years when power off
- 3.2 Type of Card : EM card or compatible EM Card
- 3.3 I/O Interface: 2 groups of switch input, 1 group anti-disassemble alarm input, 1 exterior card interface, 2 groups of output interfaces, DC12/3A
- 3.4 Network Interface: RS232/RS485 interface
 - Communication Rate: 9600bps
- 3.5 Display Mode: 2X18 LCD display , Language: English\Chinese.
- 3.6 System Capacity and Main Functions
 - Number of Card Holder: 3000
 - Number of Records: 8200 pcs

- Entrance/Exit Mode:
 - Card alone
 - Card plus Password
 - Password alone
 - Initial Card Open
 - Multiple Card Open (2≤N≤4)
 - Remote Open
 - Forced Open
- Multiple and programmable working modes:
 - Normal Open
 - Forced Close
 - Identification after Card-presenting (Door will be opened only after the card holder is identified by the control center)
 - Anti-passback function
- Multiple access group and working hour setup
 - Every controller supports 42 access groups
 - Support 20 groups of schedule
 - Support 32 groups of annual holiday setup
- Protection
 - All inputs are equipped with imported TVS protection
 - Voltage clamp protection
 - All outputs adopt spark depress circuit and absorption circuit

4. Installation Instruction



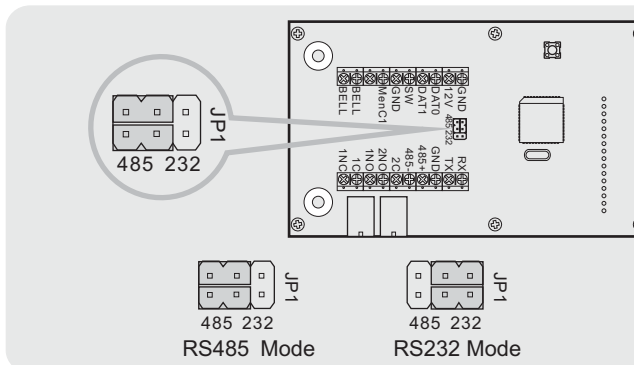
4.1 Remove the two keys first. 4.2 Unfasten the two screws.



4.3 Open the back cover and connect the device according to the wiring diagram. 4.4 Fix the backcover on the wall and reassemble the device. (according to 4.1, 4.2 and 4.3 in reversed order)

5. Communication Mode Setup

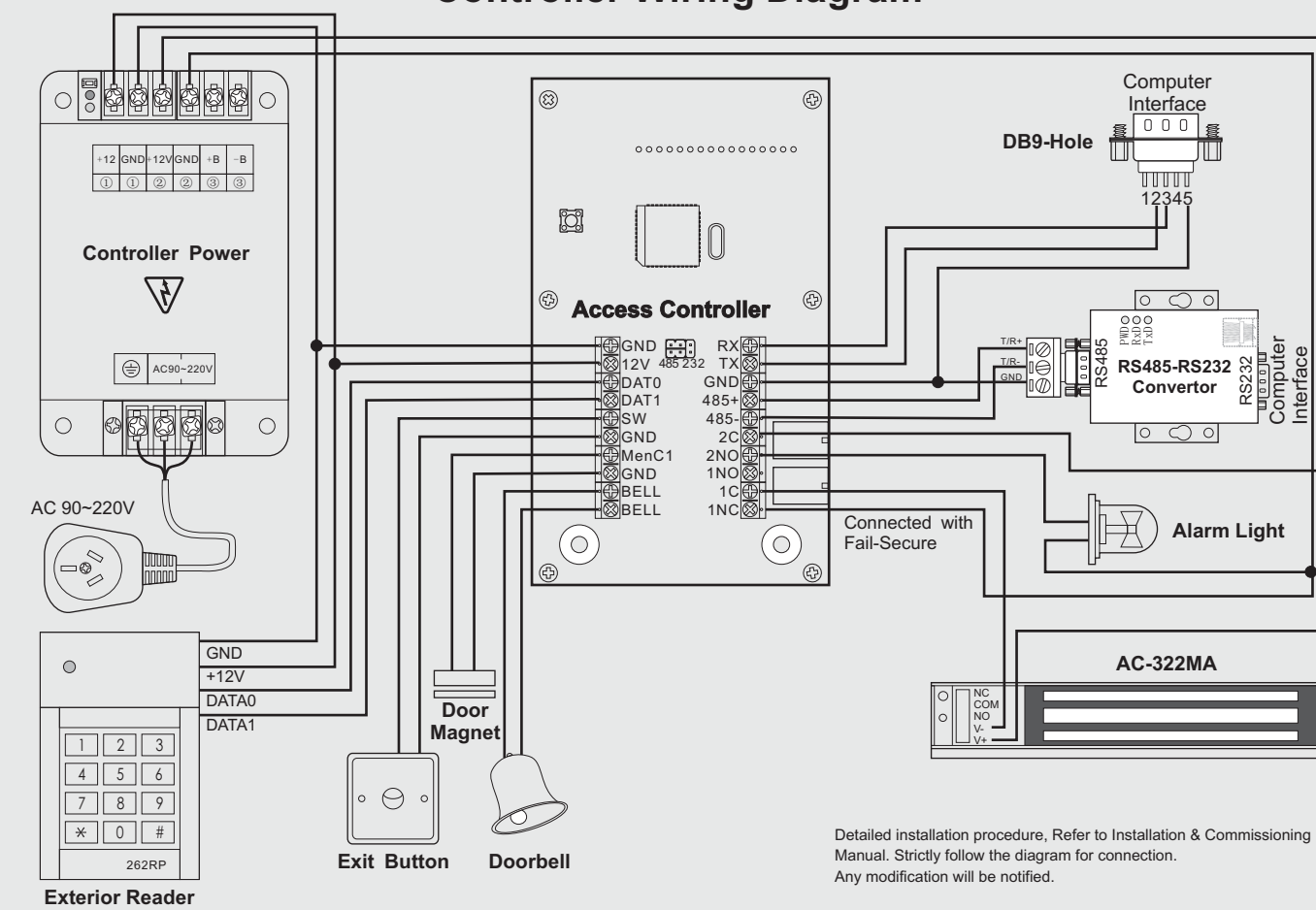
Change the communication mode with computer by changing the jumper-wire in jumper JP1



6. Rules for Installation

- 6.1 Selection of exterior components may be based on installation environment. However, the selection should be in accordance to existing National and International Standards as well as matched with the controller. A careful study on the instructions on exterior components selection is strongly advised.
- 6.2 Installation of the control unit (including microprocessor) should not be inside the high-voltage box or near any large converter or high voltage/current devices. The components should be installed in places easy for uninstallation in order for convenient maintenance.
- 6.3 The controller board should be connected to earth independently. Please ensure that grounding has been provided in the installation site.
- 6.4 When installing the box with microprocessors inside, please ensure that the screw and lock has been fastened.
- 6.5 The 220V terminal power cable should be plugged in separate power supply socket (the power cable should not share the socket with other devices) with grounding ensured.
- 6.6 Do not crossover the system cables through other devices.
- 6.7 All components should not be installed in places with excess high/low temperature or humidity.

Controller Wiring Diagram



Detailed installation procedure, Refer to Installation & Commissioning Manual. Strictly follow the diagram for connection. Any modification will be notified.

7. Instruction for Keypad Function

Sound Indication: Device sounds once is keypad input; device sounds twice continuously means error or exit.

Accessing the Menu: Press * then LCD displays English and Chinese, select the language:

- 1. Chinese
- 2. English

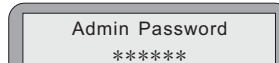
Press "1" or "2" to select the type of language

Keypad Edit:

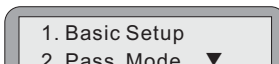
Input password or password+card and wait for 6 seconds.

7.1 Enter Edit Mode

Input the 6-digit administrator password (default password is 000000)

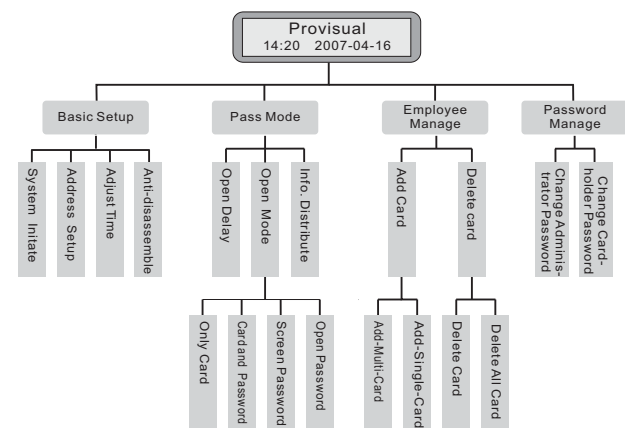


The device enters "Edit" if password is correct; otherwise, device sounds twice and returns to last screen if password is wrong.



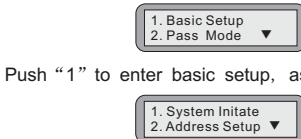
*▲▼ shows there are other pages to be shown, you can use key 6 and key 9 for moving the page. 6 for page up and 9 for page down.

Once device enters edit menu, the user can setup the controller. Push # to return to upper level menu. For setup hierarchy, please note the following:



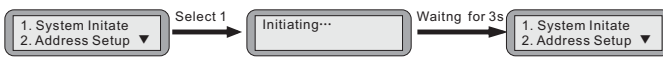
7.2 Basic Setup

Basic setup includes: system initiation, address setup, anti-disassemble setup, time adjustment, Input administrator password and enter lever 1 menu of edit.



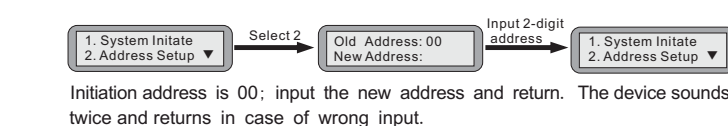
7.2.1 System Initiation

System initiation will clear all original setup of the controller (including pass mode setup, basic setup, all keypad-added card, password etc. however, administrator setup will not be changed).



7.2.2 Address Setup

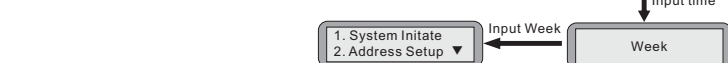
Address is applied to differentiate the controller from any other devices on the network. An address within a single 485 network should be unique. Address ranges from 00 to 39.



Initiation address is 00; input the new address and return. The device sounds twice and returns in case of wrong input.

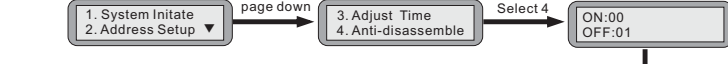
7.2.3 Time Adjustment

Time adjustment is to synchronize time of controller with real time. The time can also be setup off-line. (Only 2-digit of year can be inputted), week format (01-07);



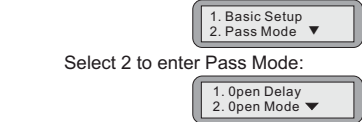
7.2.4 Anti-disassemble Alarm

Anti-disassemble alarm is applied to protect controller from being disassembled or damaged.



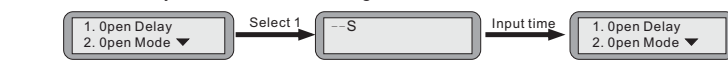
7.3 Pass Mode

This function is used to define the mode of pass, Door-open delay and information distribution. There are three modes: card, card + password and password. For card+password and password mode, the door-open password and cardholder password are the same.



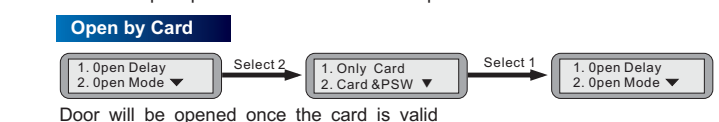
7.3.1 Door-open Delay

Door-open delay is the duration from the time door is opened to the time the door automatically closes. (Duration ranges from 00-99m seconds)

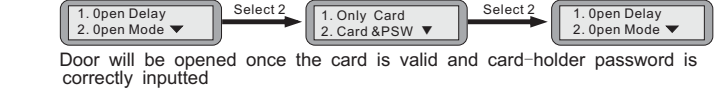


7.3.2 Door-open Mode

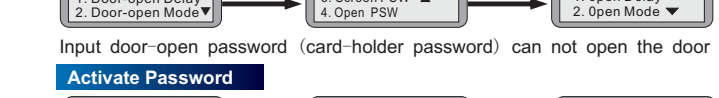
This function is used to define the mode of door-open, including three modes: card, card + password and password. For card+password and password mode, the door-open password and card-holder password are the same.



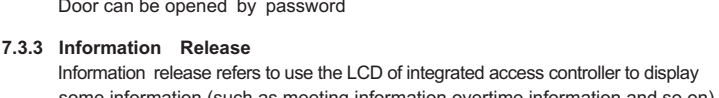
Door will be opened once the card is valid



Door will be opened once the card is valid and card-holder password is correctly inputted



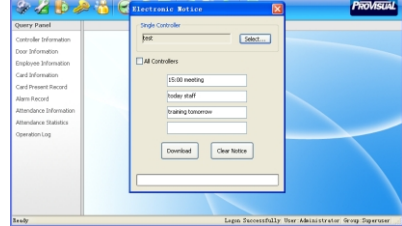
Input door-open password (card-holder password) can not open the door



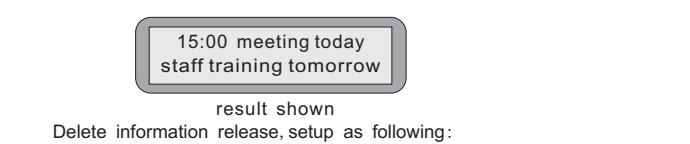
7.3.3 Information Release

Information release refers to use the LCD of integrated access controller to display some information.(such as meeting information, overtime information and so on)

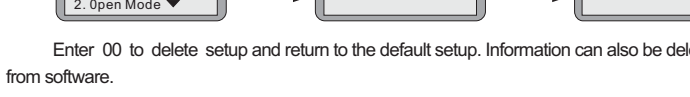
Management software can be used to enter the information publish settings. (tools--LCD display design) As shown below:



Download the message to device after inputting the message in software. This function is applied to AC-930P only. There can be max. 9 Chinese characters and 18 English letters for each row.

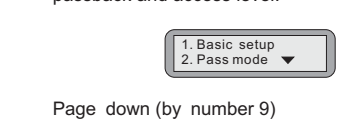


Enter 00 to delete setup and return to the default setup. Information can also be deleted from software.



7.4 Employee management

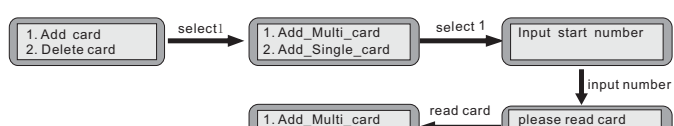
This function enables the user to add or delete card holders by the integrated access controller without connecting to computer. Max 1500 cards/card-holders can be managed in off-line manage mode. There is no conflict between off-line cards and cards read by computer. The off-line card possesses top authority and is not affected by such functions as multiple card, initial card, remote control, anti-passback and access level.



7.4.1 Add card

Add card includes add multiple cards and add single card.

Add multiple cards: A number of cards can be registered in the device, with a defined number. The second card will be assigned with a number next to the number defined to the

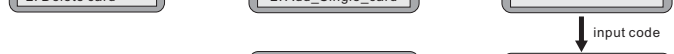


result shown: 15:00 meeting today staff training tomorrow

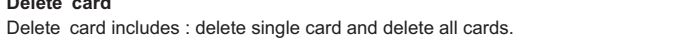
Delete information release, setup as following:



Enter 00 to delete setup and return to the default setup. Information can also be deleted from software.



Deleted card includes: delete single card and delete all cards.



Delete all cards: Delete all cards will render all cards set by keyboard into illegal cards, system initiation will clear all cards and should be applied carefully.

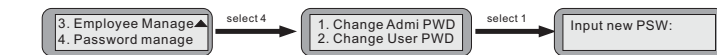


7.5 Password management

Password management refers to the management of administrator password and card-holder password. Administrator password is used to enter Edit status. Card-holder password is used to open the door in the password or card+password door-open mode, they are the same one.

Default administrator password is 000000, if two inputs are inconsistent, the device will automatically return to the higher-level menu.

1. Change Admi PWD, 2. Change User PWD, 3. Employee Manage, 4. Password manage, 5. Input new PSW, 6. Input password, 7. Input again:



modified

1. Change Admi PWD, 2. Change User PWD, 3. Employee Manage, 4. Password manage, 5. Input new PSW, 6. Input password, 7. Input again:

modified

1. Change Admi PWD, 2. Change User PWD, 3. Employee Manage, 4. Password manage, 5. Input new PSW, 6. Input password, 7. Input again:

modified

1. Change Admi PWD, 2. Change User PWD, 3. Employee Manage, 4. Password manage, 5. Input new PSW, 6. Input password, 7. Input again:

modified