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## ElectronicWings Sensors Modules 4×4 Keypad Module



### Specifications

- Product: Keypad Module
- Version: V1.0.0
- Release Time: December 2024

### Safety Instructions

The keypad module comes with the following signal words that indicate different levels of potential hazards:

- **Danger:** Indicates a high potential hazard that may result in death or serious injury.
- **Warning:** Indicates a medium or low potential hazard that could result in slight or moderate injury.
- **Caution:** Indicates a potential risk that could result in property damage, data loss, reductions in performance, or unpredictable results.
- **Note:** Provides additional information as a supplement to the text.

### Installation Requirements

1. Transportation Requirement: Transport the device under allowed humidity and temperature conditions.

2. Storage Requirement: Store the device under allowed humidity and temperature conditions.
3. Installation Instructions:
  - Do not connect the power adapter to the Turnstile while the adapter is powered on.
  - Strictly comply with the local electric safety code and standards.
  - Ensure the ambient voltage is stable and meets the power supply requirements of the Turnstile.
  - Avoid connecting the Turnstile to two or more kinds of power supplies to prevent damage.

## **Product Usage**

To use the keypad module efficiently, please follow these steps:

1. Connect the keypad module to a compatible power source using the provided power adapter.
2. Follow the user manual instructions for programming and setting up the keypad module.
3. Ensure that the keypad module is placed in a secure and stable location for optimal performance.
4. Use the keypad module according to its intended purpose and avoid any misuse that could cause damage.





## **Foreword**

### **General**

This manual introduces the functions and operations of the keypad module (hereinafter referred to as “the device”).

### **Safety Instructions**

The following signal words might appear in the manual.

Signal Words	Meaning
 DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
 CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
 NOTE	Provides additional information as a supplement to the text.

## Revision History

Version	Revision Content	Release Time
V1.0.0	First Release.	December 2024

## Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others, such as their face, audio, fingerprints, and license plate number. You need to comply with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include, but are not limited to: Providing clear and visible identification to inform people of the existence of the surveillance area and providing required contact information.

## About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code, or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.

- There might be errors in the print or deviations in the description of the functions, operations,, and technical data. If there is any doubt or dispute, we reserve the right to final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks, and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right to final explanation.

## **Important Safeguards and Warnings**

This section introduces content covering the proper handling of the Turnstile, hazard prevention, and prevention of property damage. Read carefully before using the Turnstile, comply with the guidelines when using it, and keep the manual safe for future reference.

### **Transportation Requirement**

Transport the device under the allowed humidity and temperature conditions.

### **Storage Requirement**

Store the device under allowed humidity and temperature conditions.

## **Installation Requirements**

### **WARNING**

- Do not connect the power adapter to the Turnstile while the adapter is powered on.
- Strictly comply with the local electric safety code and standards. Make sure the ambient voltage is stable and meets the power supply requirements of the Turnstile.
- Do not connect the Turnstile to two or more kinds of power supplies, to avoid damage to the Turnstile.
- Install the Turnstile on a stable surface to prevent it from falling.
- Do not place the Turnstile in a place exposed to sunlight or near heat sources.

- Keep the Turnstile away from dampness, dust, and soot.
- Install the device in a well-ventilated place, and do not block its ventilation.
- Use an adapter or cabinet power supply provided by the manufacturer.
- The power supply must conform to the requirements of ES1 in IEC 62368-1 standard and be no higher than PS2. Please note that the power supply requirements are subject to the Turnstile label.
- The Turnstile is a class I electrical appliance. Make sure that the power supply of the Turnstile is connected to a power socket with protective earthing.

## **Operation Requirements**

- Make sure that the power supply is correct before use.
- Do not unplug the power cord on the side of the Turnstile when the adapter is powered on.
- Operate the Turnstile within the rated range of power input and output.
- Transport, use, and store the device under allowed humidity and temperature conditions.
- Do not drop or splash liquid onto the Turnstile, and make sure that there is no object filled with liquid on the Turnstile to prevent liquid from flowing into it.
- Do not disassemble the Turnstile without professional instruction.

## **Maintenance Requirements**

- After the installation, remove the protective film and clean the Turnstile.
- Regularly perform maintenance on the Turnstile to ensure that it works properly.
- If the Turnstile is installed near places with poor air, such as a swimming pool entrance, within 50 km of the sea or a construction site, then maintenance must be performed more frequently on the stainless cover.
- Do not use paint thinner or any other organic agent during maintenance.
- When using a face recognition component, apply waterproof silicone sealant to the installation position.

## **Precautions**

### **WARNING**

- Pregnant women, the elderly, and children must be accompanied when passing the Turnstile.
- Children less than the height of 1 m must pass the Turnstile in the arms of or alongside an adult.
- Do not stay or play in the passage.
- Make sure that your suitcase passes in front of or alongside you.
- Only one person can pass through at a time. Do not tailgate a person, linger in the passage, or break through the passage.
- A violent impact might damage the machine core and shorten the service life of the Turnstile.
- Make sure that the Turnstile is correctly grounded to prevent personal injury.
- Do not use the Turnstile when thunder occurs.
- When authorizing a person to pass through the Turnstile, there should be no person on the opposite side of the Turnstile; otherwise, the barriers will remain unlocked until the person on the opposite side exits.
- Pass through the Turnstile as soon as possible after authorization. If the person does not enter within the specified time, the system will automatically close the barriers.
- When multiple persons are entering, they can pass with continuous authorization when memory mode is enabled. But the interval between continuous authorizations is recommended to be 2 s–5 s.
- Pay attention to the status of the indicator when verifying a person's identity. Red indicates that the identity of the person was not verified. Green indicates that their identity was successfully verified, and that the person can pass through.
- Do not try to forcibly pass through the passage. This Turnstile supports intelligent anti-tailgating and anti-reverse intrusion. If you forcibly break through, the system will automatically lock, closing off the passage. This can result in a person becoming injured.
- The Turnstile will not correctly recognize the authorized card if it is used together with other cards.
- Keep the authorized card well to make sure it works properly.
- Do not pass items through the Turnstile; otherwise, the Turnstile will consider the item unauthorized.

## **Product Introduction**

The modular VTO keypad module has with metal front cover and a backlight keypad.

Port

Figure 2-1 Port

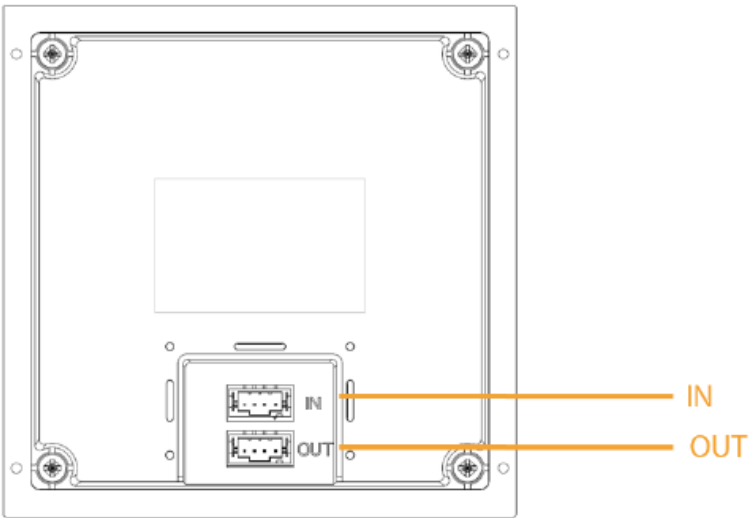


Table 2-1 Description of port

Port	Description
IN	Uplink Port
OUT	Downlink Port

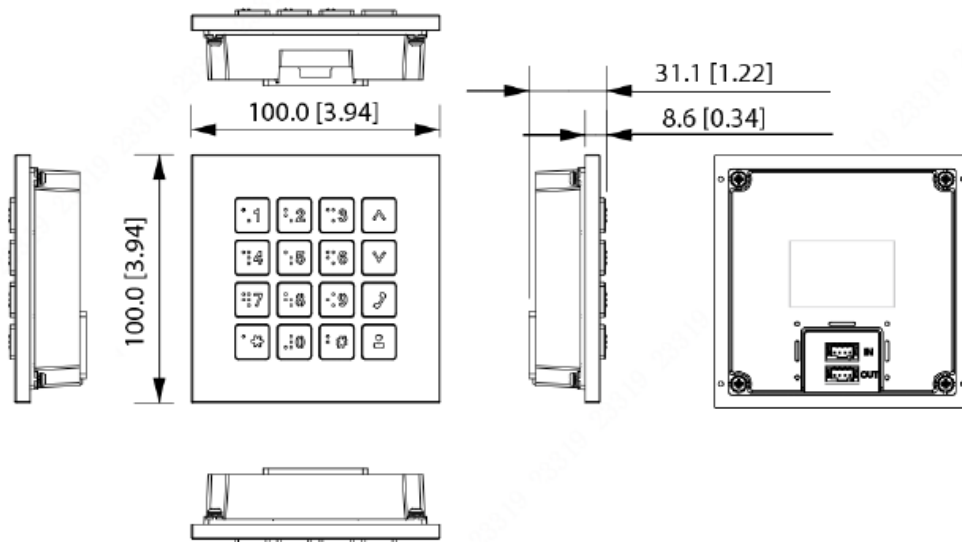
Dimension

The following shows the dimensions of the module.

Figure 3-1 Dimensions (unit: mm [inch])



Figure 3-1 Dimensions (unit: mm [inch])



## Appendix 1: Security Recommendation

### Account Management

#### 1. Use complex passwords

Please refer to the following suggestions to set passwords:

- The length should not be less than 8 characters.;
- Include at least two types of characters: upper and lower case letters, numbers, and symbols;
- Do not contain the account name or the account name in reverse order;
- Do not use continuous characters, such as 123, abc, etc.;
- Do not use repeating characters, such as 111, aaa, etc.

#### 2. Change passwords periodically

It is recommended to periodically change the device password to reduce the risk of being guessed or cracked.

#### 3. Allocate accounts and permissions appropriately.

Appropriately add users based on service and management requirements, and assign minimum permission sets to users.

#### 4. Enable the account lockout function.on

The account lockout function is enabled by default. You are advised to keep it enabled to protect account security. After multiple failed password attempts, the corresponding account and source IP address will be locked.

#### 5. Set and update password reset information promptly

The device supports a password reset function. To reduce the risk of this function being used by threat actors, if there is any change in the information, please modify it in time. When setting security questions, it is recommended not to use easily guessed answers.

## **Service Configuration**

### **1. Enable HTTPS**

It is recommended that you enable HTTPS to access web services through secure channels.

### **2. Encrypted transmission of audio and video**

If your audio and video data contents are very important or sensitive, it is recommended to use encrypted transmission function in order to reduce the risk of your audio and video data being eavesdropped during transmission.

### **3. Turn off non-essential services and use safe mode.**

If not needed, it is recommended to turn off some services such as SSH, SNMP, SMTP, UPnP, AP hotspot, etc., to reduce the attack surfaces.

If necessary, it is highly recommended to choose safe modes, including but not limited to the following services:

- SNMP: Choose SNMP v3, and set up strong encryption and authentication passwords.
- SMTP: Choose TLS to access the Ailbox server.
- TP: Choose SFTP, and set up complex passwords.
- P hotspot: Choose WPA2-PSK encryption mode, and set up complex passwords.

### **4. Change HTTP and other default service ports.**

It is recommended that you change the default port of HTTP and other services to any port between 1024 and 65535 to reduce the risk of being guessed by threat actors.

## **Network Configuration**

### **1. Enable Allow list**

It is recommended that you turn on the allow list function and only allow IP addresses in the allow list to access the device. Therefore, please be sure to add your computer IP address and supporting device IP address to the allow list.

### **2. MAC address binding**

It is recommended that you bind the IP address of the gateway to the MAC address on the device to reduce the risk of ARP spoofing.

3. Build a secure network environment better ensure the security of devices and reduce potential cyber risks, the following are recommended:
  - Disable the port mapping function of the router to avoid direct access to the intranet devices from the external network.
  - According to the actual network needs, partition the network: if there is no communication demand between the two subnets, it is recommended to use VLAN, gateway and other methods to partition the network to achieve network isolation; Establish 802.1x access authentication system to reduce the risk of illegal terminal access to the private network.

## **Security Auditing**

### **1. Check online users**

It is recommended to check online users regularly to identify illegal users.

### **2. Check the device log**

By viewing logs, you can learn about the IP addresses that attempt to log in to the device and key operations of the logged-in users.

### **3. Configure network log**

Due to the limited storage capacity of devices, the stored log is limited. If you need to save the log for a long time, it is recommended to enable the network log function to ensure that the critical logs are synchronized to the network log server for tracing.

## **Software Security**

### **1. Update the firmware in time.**

According to the industry standard operating specifications, the firmware of devices needs to be updated to the latest version in time to ensure that the device has the latest functions and security. If the device is connected to the public network, it is recommended to enable the online upgrade automatic detection function to obtain the firmware update information released by the manufacturer promptly.

### **2. Update client software in time.**

It is recommended to download and use the latest client software.

## Physical Protection


It is recommended that you carry out physical protection for devices (especially storage devices), such as placing the device in a dedicated machine room and cabinet, and having access control and key management in place to prevent unauthorized personnel from damaging hardware and other peripheral equipment (e.g. USB flash disk, serial port).

## FAQs

**Q: What should I do if I encounter issues with the keypad module?**

**A:** If you experience any problems while using the device, please visit our website, contact the supplier, or reach out to customer service for assistance.

## Documents / Resources

	<a href="#">ElectronicWings Sensors Modules 4x4 Keypad Module [pdf]</a> User Manual Sensors Modules 4x4 Keypad Module, 4x4 Keypad Module, Keypad Module
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## References

- [User Manual](#)

4x4 Keypad Module, ElectronicWings, Keypad Module, Sensors Modules 4x4 Keypad  
ElectronicWings Module

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