

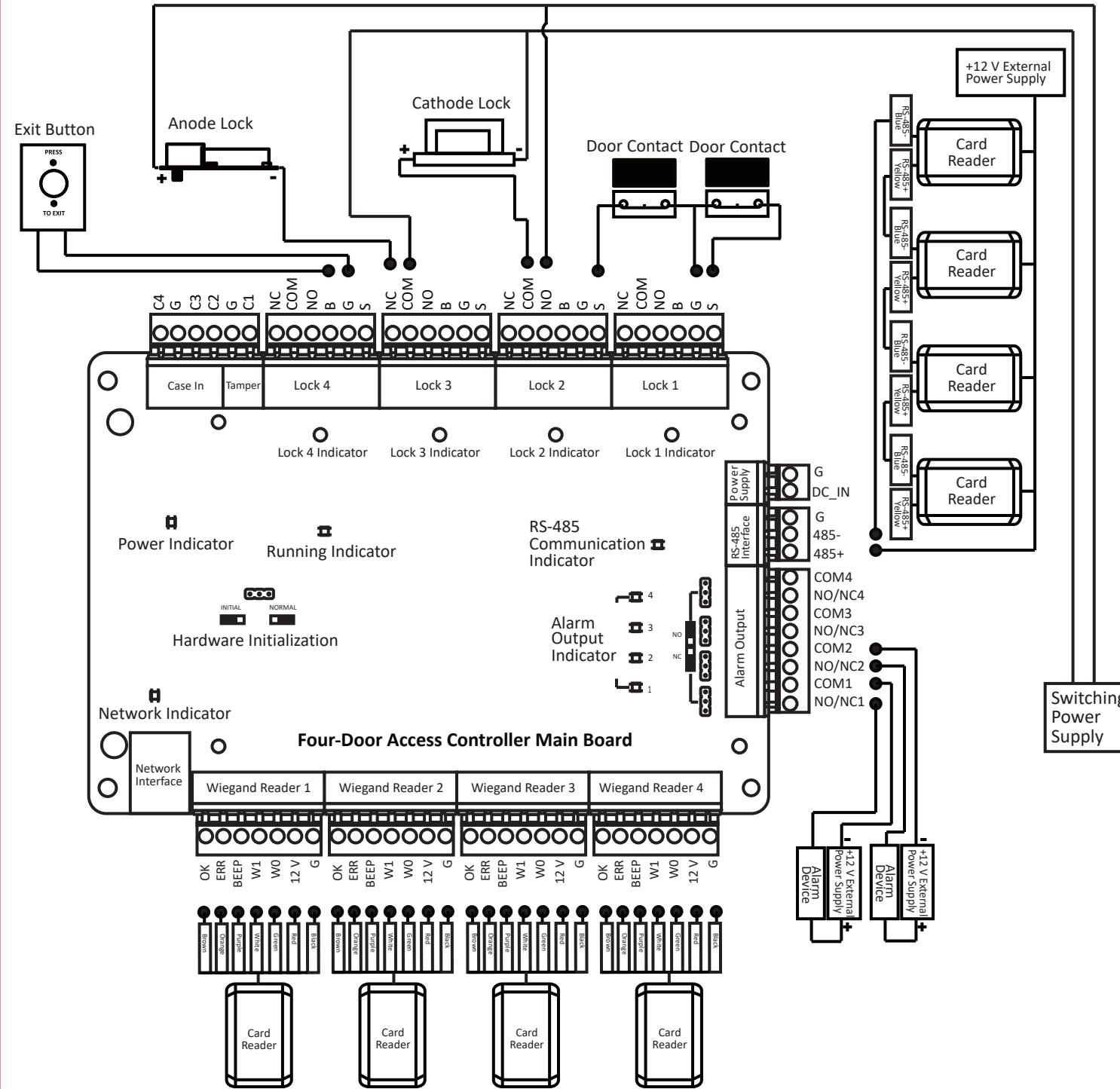


DS-K281X Series Access Controller

Quick Start Guide

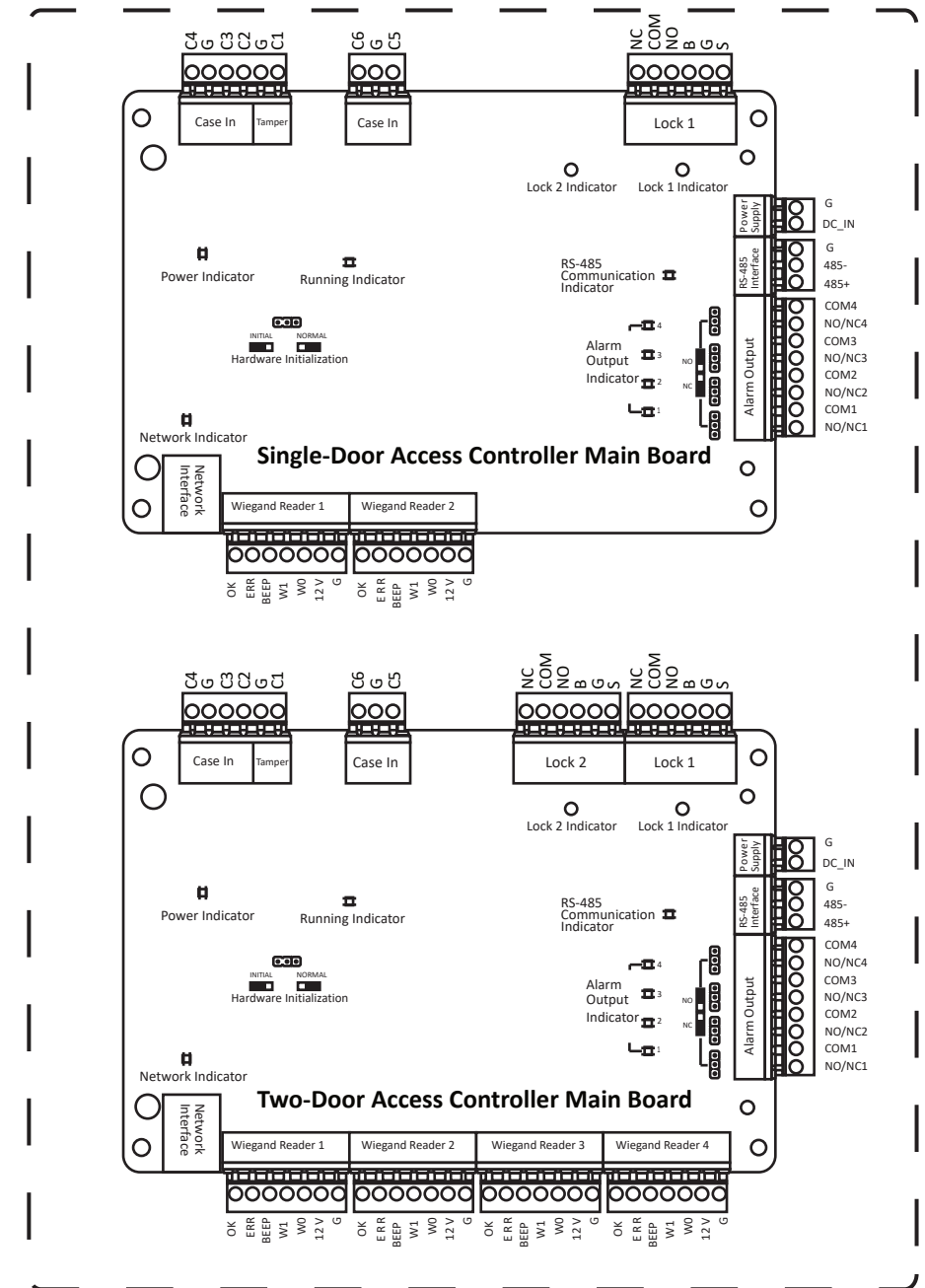
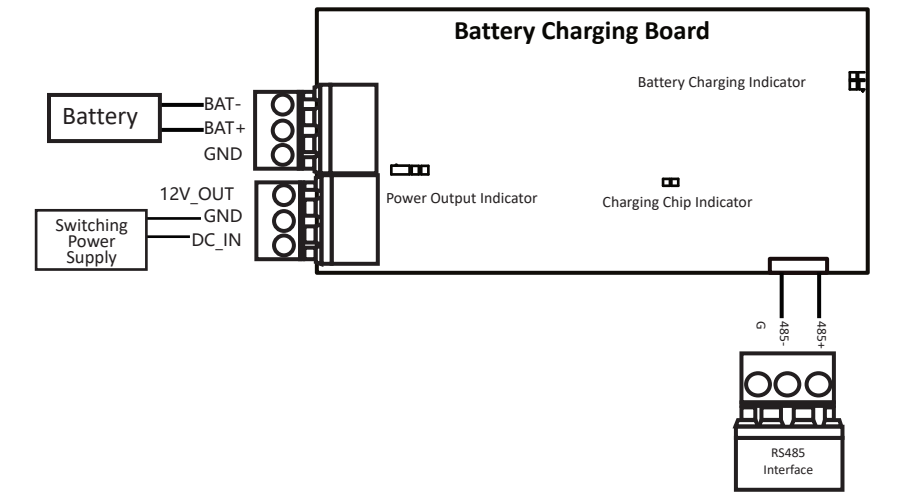
UD31240B-B

1 Wiring



- After wiring RS-485 card readers, you should set Bit 6 of the card reader DIP switch to OFF and set Bit 1 to 4 as the DIP address. DIP address of Door 1 (Entrance) is 1 (decimal value), Door 1 (Exit) is 2, Door 2 (Entrance) is 3, Door 2 (Exit) is 4, Door 3 (Entrance) is 5, Door 3 (Exit) is 6, Door 4 (Entrance) is 7, and Door 4 (Exit) is 8.
- After wiring the Wiegand card readers, set Bit 6 of the card reader DIP switch to ON and set Bit 7 to select a Wiegand protocol.
- The battery charging boards are only for devices that support battery.
- Battery charging indicator:

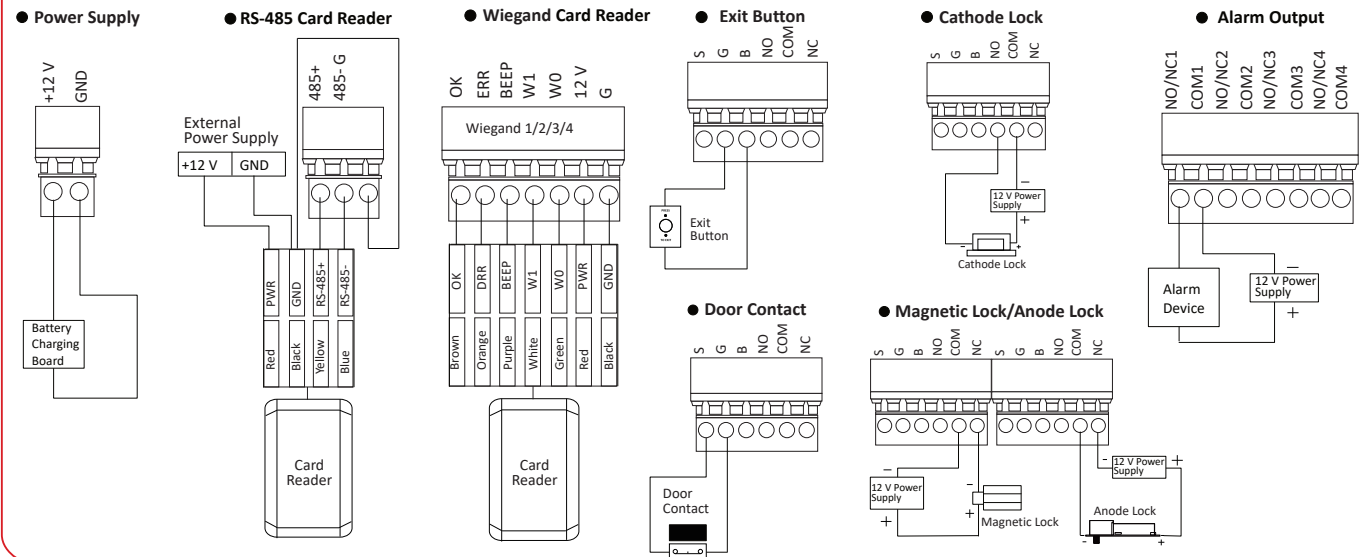
Solid red: The battery is charging; Red and green flashing alternately: The battery is fully charged; After 21 seconds of powering, if the battery is not detected, the indicator will not flash.



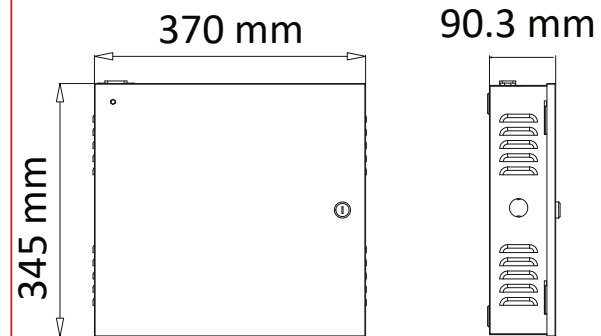
Scan the QR code to get the user manual for detailed information.



2 Separate Wiring



3 Appearance



7 Activation

You are required to activate the control panel first before you can use the control panel. Activation via SADP, and activation via iVMS-4200 Client Software are supported.

The default values of the terminal are as follows:

- The default IP address: 192.0.0.64
- The default port No.: 8000
- The default user name: admin

● Activation via iVMS-4200 Client Software

1. Get the Client Software from the official website. Install and run the Client Software.
2. Enter the Device Management page.
3. Click **Device** on the top of the right panel.
4. Click **Online Device** to show the online device area at the bottom of the page.
5. Check the device status (shown on Security Level column) and select an inactive device.
6. Click **Activate**.
7. Create a password in the password field, and confirm the password.
8. Click **OK** to activate the device.
9. Select an activated device in Online Device area, click on the Operation column to open the Modify Network Parameter window. Change the device IP address to the same subnet with your computer if you need to add the device to the client.

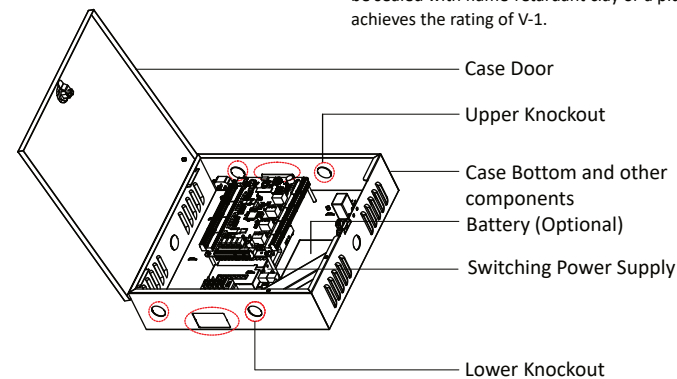
Make sure the device IP address is the same to the IP of your computer.



STRONG PASSWORD RECOMMENDED— We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

4 Installation

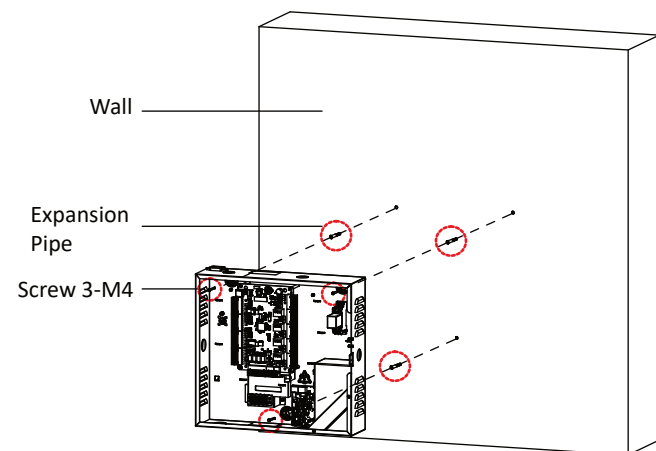
In the process of installing, after routing the cable through the knockout, the knockout should be sealed with flame-retardant clay or a plug that achieves the rating of V-1.



Wall Mounting

- 1 Open and take off the case door.
- 2 Secure the device on the wall with expansion screws.
- 3 After wiring, recover the case door and bottom.

When wiring, you can open knockouts to your actual needs.



5 Dip Switch Settings

DIP Switch Settings of Card Reader

● **DIP Switch Settings of RS-485 Card Reader**
Set Bit 6 of the card reader DIP switch to OFF and set Bit 1 to 4 as the DIP address.

DIP address of Door 1 (Entrance) is 1 (decimal value), Door 1 (Exit) is 2, Door 2 (Entrance) is 3, Door 2 (Exit) is 4, Door 3 (Entrance) is 5, Door 3 (Exit) is 6, Door 4 (Entrance) is 7, and Door 4 (Exit) is 8.

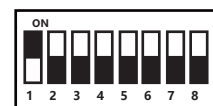
● **DIP Switch Settings of Wiegand Card Reader**

Set Bit 6 of the card reader DIP switch to ON and set Bit 7 to select a Wiegand protocol.

If setting Bit 7 as ON, it refers to Wiegand 26 protocol. If setting Bit 7 as OFF, it refers to Wiegand 34 protocol.

DIP Switch Description

- Take the 8-bit DIP switch as an example; No.1 to No 8 is from the low bit to the high bit.
- When the switch is towards ON, it means the switch is enabled, otherwise, the switch is off. If you set the DIP switch like the figure displayed below, its binary value is 00001100, and its decimal value is 12.



DIP Switch of Door 1 (Entrance)



DIP Switch of Wiegand 26 Protocol



6 Hardware Initialization and Relay NO/NC Settings

Hardware Initialization



● Choice 1

- Step 1: Remove the jumper cap from the Normal terminal.
- Step 2: Disconnect the power and restart the access controller. The controller buzzer buzzes a long beep.
- Step 3: When the beep stopped, plug the jumper cap back to Normal.
- Step 4: Disconnect the power and restart the access controller.

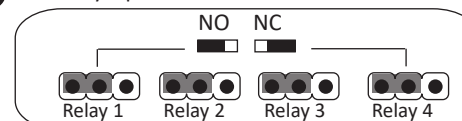
● Choice 2

- Step 1: Jump the jumper cap from Normal to Initial.
- Step 2: Disconnect the power and reboot the access controller. The controller buzzer buzzes a long beep.
- Step 3: When the beep stopped, jump the jumper cap back to Normal.
- Step 4: Disconnect the power and reboot the access controller.

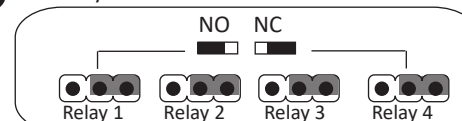
Relay NO/NC Settings

Set the relay NO/NC status when setting the lock output and alarm output. The position of the jumper cap position and the related NO/NC status are as follows:

● Normally Open Status



● Normally Closed Status



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About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the Hikvision website (<https://www.hikvision.com/>).

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

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Data Protection

During the use of device, personal data will be collected, stored and processed. To protect data, the development of Hikvision devices incorporates privacy by design principles. For example, for device with facial recognition features, biometrics data is stored in your device with encryption method; for fingerprint device, only fingerprint template will be saved, which is impossible to reconstruct a fingerprint image.

As data controller, you are advised to collect, store, process and transfer data in accordance with the applicable data protection laws and regulations, including without limitation, conducting security controls to safeguard personal data, such as, implementing reasonable administrative and physical security controls, conduct periodic reviews and assessments of the effectiveness of your security controls.

Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. FCC compliance: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the RE Directive 2014/53/EU, the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU.



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info



Warning

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- The equipment must be connected to an earthed mains socket-outlet.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- Do not ingest battery. Chemical burn hazard!
- 2. This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- 3. Keep new and used batteries away from children.
- 4. If the battery compartment does not close securely, stop using the product and keep it away from children.
- 5. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- 6. CAUTION: Risk of explosion if the battery is replaced by an incorrect type.
- 7. Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- 8. Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
- 9. Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
- 10. Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.
- 11. Dispose of used batteries according to the instructions.



Caution

- + identifies the positive terminal(s) of equipment which is used with, or generates direct current. - identifies the negative terminal(s) of equipment which is used with, or generates direct current.
- No naked flame sources, such as lighted candles, should be placed on the equipment.
- This equipment is suitable for mounting on concrete or other non-combustible surface only.
- The serial port of the equipment is used for debugging only.
- 1. Install the equipment according to the instructions in this manual.
- 2. To prevent injury, this equipment must be securely attached to the wall in accordance with the installation instructions.