

MODBUS GATEWAY

SMG-01



“Original instructions”

IMPORTANT NOTE:

Read this manual carefully before installing or operating your new air conditioning unit. Make sure to save this manual for future reference.

To Users





Thank you for selecting Sinclair's product. Please read this instruction manual carefully before installing and using the product, so as to master and correctly use the product. In order to guide you to correctly install and use our product and achieve expected operating effect, we hereby instruct as below:

- (1) This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- (2) This instruction manual is a universal manual, some functions are only applicable to particular product. All the illustrations and information in the instruction manual are only for reference, and control interface should be subject to actual operation.
- (3) In order to make the product better, we will continuously conduct improvement and innovation. We have the right to make necessary revision to the product from time to time due to the reason of sales or production, and reserve the right to revise the contents without further notice.
- (4) For personal injury or property loss and damage caused by improper operation such as improper installation and debugging, unnecessary maintenance, violation of related national laws and rules and industrial standard, and violation of this instruction manual, etc., we will bear no liability.
- (5) The final right to interpret for this instruction manual belongs to SINCLAIR CORPORATION Ltd.

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1 Safety Notices (Please be sure to abide)

	Warning: If not abide strictly, it may cause severe damage to the unit or the people.
	Note: If not abide strictly, it may cause slight or medium damage to the unit or the people.
	This sign indicates that the operation must be prohibited. Improper operation may cause severe damage or death to people.
	This sign indicates that the items must be observed. Improper operation may cause damage to people or property.



WARNING!

This product can't be installed at corrosive, inflammable or explosive environment or the place with special requirements, such as kitchen. Otherwise, it will affect the normal operation or shorten the service life of the unit, or even cause fire hazard or serious injury. As for above special places, please adopt special product with anti-corrosive or anti-explosion function.

2 Product Composition

The kit includes the following assembly, please check before installation.

Modbus Gateway	1 set
Specification	1 set

3 Function statement

When the user needs to conduct central control/remote monitor, connect the product to the indoor unit of communication network. The gateway plays the role of connecting the main board of indoor unit and central controller/remote monitor.

4 Product Installation

4.1 Installation location

According to the installation requirements, the box of the gateway shall be used screws for fixing, or double sided adhesive tape shall be pasted on the unit, wall and ceiling near the electrical box.

4.2 Network topological graph

L1 network in the fig can be connected to 255 gateways at most.

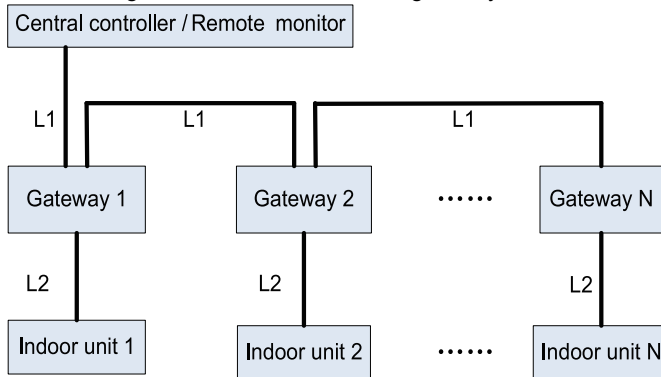


Figure 4-1 Network topological graph

4.3 Wiring specification

- (1) Communication cord L2 from the gateway shall be connected to the 6-core needle holder.
- (2) Open the upper cover of gateway, you can see 4 screws wiring terminals with the mark of A, A, B and B separately.

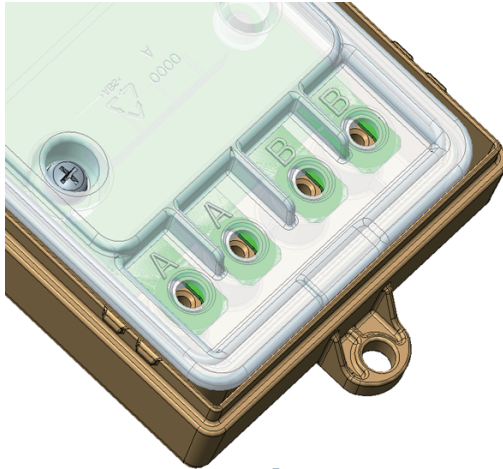


Figure 4-2 Mark diagram of wiring terminal

- (3) Choose either of AB wiring terminal, connect it to the central controller/remote monitor; if there are multiple gateways, the other AB wiring terminal shall be connected to the next gateway.

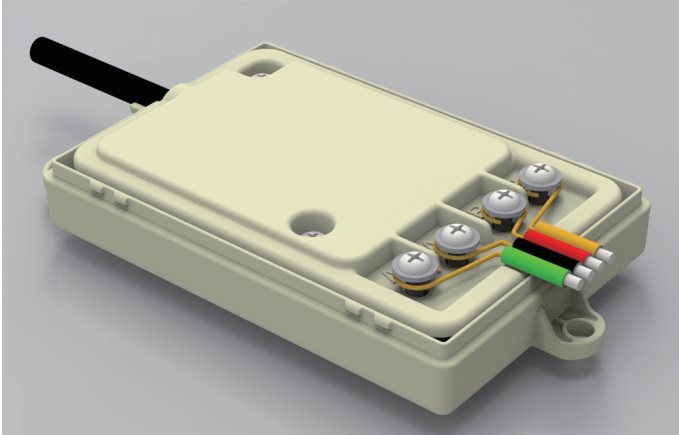


Figure 4-3 Diagram of wiring terminal

4.4 Wire selection

Model selection of communication cord for gateway, central controller/remote controller:

Code of communication cord	Wire type	Series model	Remark
L1	V twisted-pair (2-core)	AWG24	When the communication distance exceeds 800m, a photoelectric isolation repeater shall be added
L2	-	-	6-core communication cord standard configuration

5 Instruction for use

5.1 Indicator instruction

When the indicator is flashing normally, it means the gateway is operating normally.

No.	Indicator	Function introduction
1	Power indicator (red)	Always on after power on
2	Communication indicator (green)	Blinking when operating

NOTE CONCERNING PROTECTION OF ENVIRONMENT



This product must not be disposed of via normal household waste after its service life, but must be taken to a collection station for the recycling of electrical and electronic devices. The symbol on the product, the operating instructions or the packaging indicate such disposal procedures. The materials are recyclable in accordance with their respective symbols. By means of re-use, material recycling or any other form of recycling old appliances you are making an important contribution to the protection of our environment. Please ask your local council where your nearest disposal station is located.

In case of quality problem or other please contact your local supplier or authorized service center.

Emergency number: 112

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