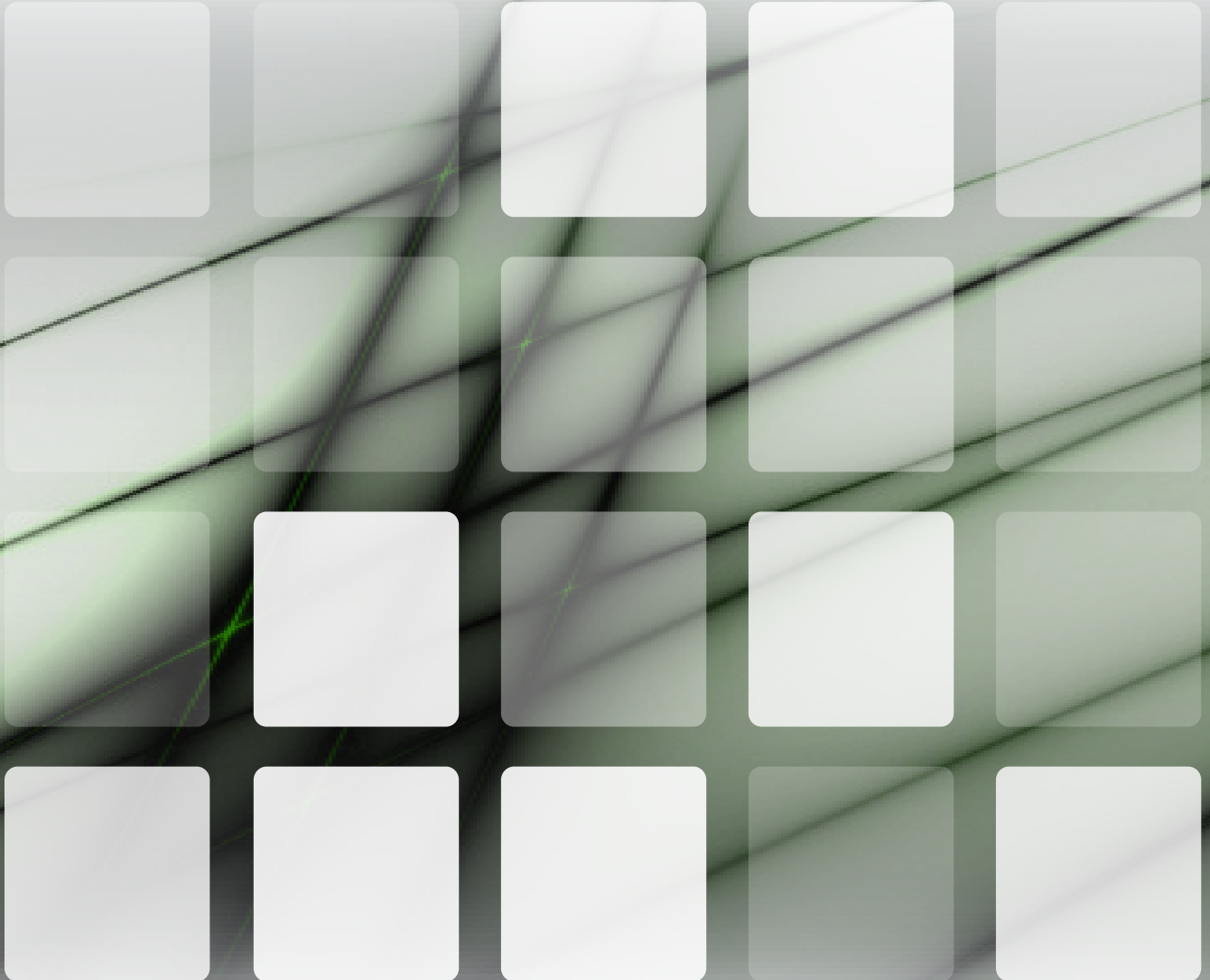


S2S KNX GATEWAY

(GC201811-I)

ER CONDITIONERS GREE MAKING BETTER CONDITIONERS GREE MAKING BETTER CONDITIONERS GREE MAKING BETTER CONDITIONERS



TER CONDITIONERS GREE MAKING BETTER CONDITIONERS GREE MAKING BETTER CONDITIONERS GREE MAKING BETTER CONDITIONERS



CONTENTS

- 1 S2S KNX GATEWAY INTRODUCTION.....1
- 2 NETWORK TOPOLOGICAL GRAPH2
- 3 STATEMENT ON NETWORK TOPOLOGICAL GRAPH2
- 4 DIMENSION OF GATEWAY.....3
- 5 NOTICE ON INSTALLATION AND OPERATION.....3
- 6 PROCEDURE FOR MODEL SELECTION4

1 S2S KNX GATEWAY INTRODUCTION

➔ 1.1 Function introduction

S2S* KNX* Gateway is the intelligent equipment for the AC to connect to KNX system, thus realizing the communication between KNX system and HBS system. The gateway supports one-to-one connection with indoor unit only at present. S2S KNX Gateway is connected to KNX system network and HBS network through EIB* interface and HBS interface separately.

Apply to: all exported GMV5 indoor units.

*S2S:single to single

*KNX:konnex

*EIB:European Installation Bus

➔ 1.2 Product Appearance



➔ 1.3 Major features

- (1) Compact size;
- (2) Easy installation;
- (3) No need to supply extra power;
- (4) Can directly connect to KNX/EIB bus bar;
- (5) Support different scenes;
- (6) Can be monitored via KNX bus bar, including status and error of air conditioner;
- (7) With CE and ETL certification.

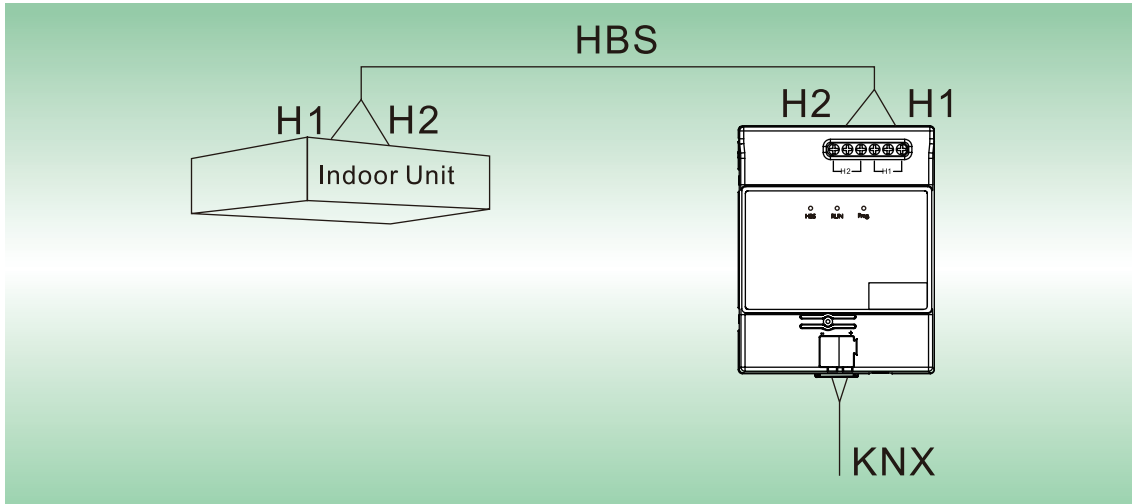
➔ 1.4 Components

The kit includes the following component, please conduct inspection before installation.

S2S KNX Gateway	1 set
Specification	1 set

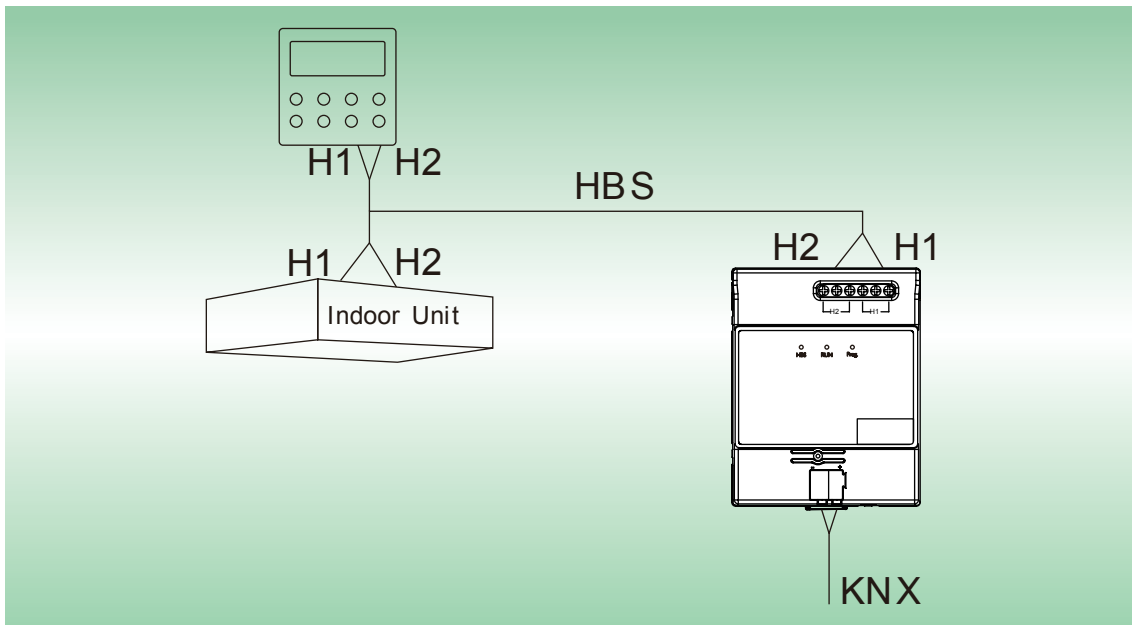
2 NETWORK TOPOLOGICAL GRAPH

Topological graph 1:



Wire connection for HBS single equipment

Topological graph 2:



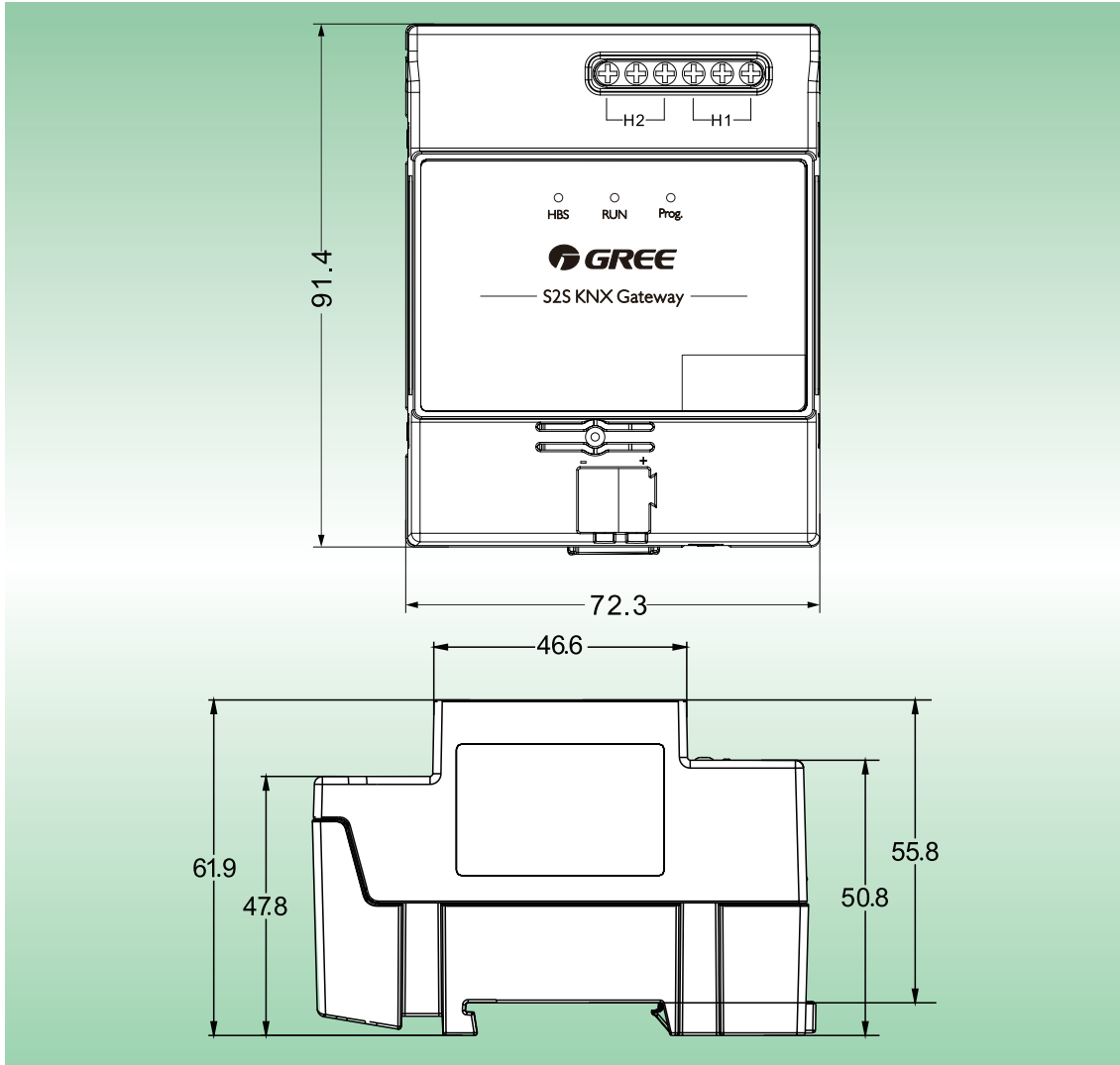
Wire connection for wired controller

3 STATEMENT ON NETWORK TOPOLOGICAL GRAPH

- (1) The S2S KNX gateway supports one-to-one connection with indoor unit through HBS bus only at present;
- (2) It can be used with wired controller. When connected to gateway and wired controller at the same time, it's recommended that the gateway shall be set to be the slave equipment, and the wired controller be the master equipment(Communication structure of HBS bus is "master and slave").

4 DIMENSION OF GATEWAY

Unit: mm



5 NOTICE ON INSTALLATION AND OPERATION

- (1) Make sure it is connected to the standard KNX system network, otherwise, communication error might occur or even damage the gateway.
- (2) Make sure DIP setting for S2S KNX Gateway is correct, otherwise, communication error might occur.
- (3) Make sure the communication cord is connected to the correct interface; otherwise, communication error might occur.
- (4) Don't place the S2S KNX Gateway under direct sunshine or high temperature and wet places. Please place it inside the indoor electric control cabinet.

6 PROCEDURE FOR MODEL SELECTION

➤ 6.1 Model Selection Rules

6.1.1 Supply range of material

S=Standard configuration; O=User self-equipped component; P=User purchased component

Supply content	Specification and model	Remark	Remark
S2S KNX Gateway	ME30-24/F1(K)	Supply power from the bus and is able to connect the BMS system. Protocol interface: KNX protocol and HBS protocol Hardware interface: HBS port and EIB port Main component: S2S KNX Gateway and user manual.	S
Communication cord	Shielding light/general PVC sleeve twisted pair copper core soft wire(RVVSP)、EIB/KNX bus	IEC 60227-5:2007; It's required to use the twisted-pair cable (diameter: 0.8mm) and connection terminal of KNX bus which meet KNX standard.	O
Guide rail	Standard guide rail of 35mm		O
Indoor electric control cabinet	--	--	O

➤ 6.2 Selection sample

6.2.1 Selection sample 1

Project case: 20 sets of GMV5 DC inverter multi VRF units (constitute 5 systems) and 120 IDUs.

Selection: one S2S KNX Gateway is corresponding to one IDU.

There are 120 IDUs for the project, so 120 S2S KNX Gateways are required.

Gree Electric Appliances, Inc. of Zhuhai, founded in 1991, is the world's largest air conditioner enterprise integrating R&D, manufacturing, marketing and services. Technology Innovation and quality are always our priority. With efforts of thousands of Gree's engineers, we own more than 3500 patents for our products. Nowadays, we have 7 production bases in Zhuhai, Chongqing, Hefei and Zhengzhou(China), as well as Brazil, Pakistan and Vietnam, with annual production capacity of 30 million sets of residential air conditioners and 4 million sets of commercial air conditioners.

With the installation of Gree commercial air conditioners in important projects at home and abroad like Media Village for 2008 Beijing Olympic Games, Stadiums for 2010 World Cup in South Africa, as well as India Telecom base station, Gree commercial air conditioners are ready to develop steadily to every corner in the world, to present a more comfortable and harmonious working environment and family atmosphere.



GREE MAKING BETTER AIR CONDITIONERS GREE MAKING BETTER AIR CONDITIONERS GREE MAKING BETTER AIR CONDITIONER C



Add: West Jinji Rd, Qianshan Zhuhai, Guangdong, China 519070

Tel: (+86-756)8614883 Fax: (+86-756)8614998

Http://www.gree.com Email: gree@gree.com.cn

For continuous improvement in the products, Gree reserves the right to modify the product specification and appearance in this manual without notice and without incurring and obligations.