Panasonic

INSTALLATION MANUAL

S-LINK / Modbus ADAPTOR

Model: CZ-C30FULCAH

Package Contents:

Item No.	Name	Quantity
①	S-LINK / Modbus adaptor	1
②	Installation Manual	1
③	Screws	2
④	Bracket	1

This S-LINK / Modbus adaptor supports centralized control of the air-conditioning equipment's switch (on/off), mode, temperature, airflow, wind direction and nanoe™X.

SAFETY INFORMATION

■ Before installation, wiring, and repair work, be sure to read the **"Safety Precautions"** section.

■ The precautions given in this manual include **"WARNING"** and **"CAUTION"**, and also provide detailed explanations of the main aspects of overall safety content. Please be sure to observe them:

⚠**WARNING**	Indicates contents that could result in death or serious injury.
⚠	Indicates contents that could result in injury or material damage.

⚠ WARNING

- Unauthorized modification, installation, relocation, or repair may void the warranty and cause safety risks.
- Installation and wiring must be done by qualified or authorized technicians only.
- Incorrect installation or wiring can result in electric shock or fire.
- Follow all instructions in the *Safety Precautions* section strictly.
- Connect wires to the correct terminals and ensure all wiring is tightened securely.
- Certain installation locations may require an RCD to prevent electric shock or fire.
- An isolation switch must be installed according to national wiring standards.
- Use a disconnect switch with at least a 3 mm contact gap (10A–16A) to prevent electrical hazards.

⚠ CAUTIONS

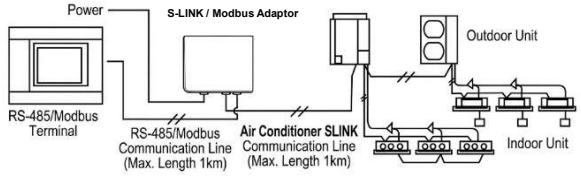
- If cleaning or repairs are needed, please contact our authorized service agent. Always turn off the power before working on the S-LINK / Modbus adaptor.

INSTALLATION

■ **Basic Wiring Diagram**

The connection of the S-LINK / Modbus adaptor is shown in the diagram on the right.

- **One RS-485 system can only use one S-LINK / Modbus adaptor; multiple adaptors cannot be used in parallel.**
- **One** S-LINK / Modbus adaptor can connect to a maximum of **64 indoor units** and **30 outdoor units.**



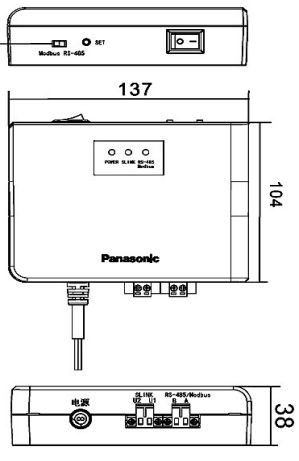
■ **Installation Precautions**

- Do not bundle wiring and power cables together, or place them too close, to avoid malfunctions.
- Do not install the adaptor in areas with strong electromagnetic interference.
- Avoid locations that are humid or easily accessible to people.
- Install the adaptor on a stable, flat surface and avoid areas with strong vibration.
- Secure all power and communication wires after wiring to prevent pulling or twisting.
- Leave enough space for installation (see Figure 1).
- Use screws to mount the adaptor securely on the bracket (see Figure 2).

■ **Installation Precautions**

Set the DIP switch to **Modbus** to select the Modbus communication protocol;
Set the DIP switch to **RS-485** to select the RS-485 communication protocol.

*: First disconnect the power, then set the DIP switch to select the communication protocol.



● Reserve sufficient space for installing the S-LINK / Modbus adaptor. (Figure 1)

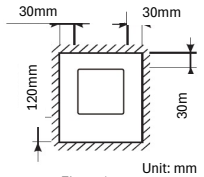


Figure 1

● Use screws to fasten the bracket to a solid location; install the S-LINK / Modbus adaptor onto the bracket. (Figure 2)

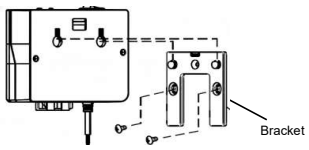


Figure 2

*: The S-LINK / Modbus adaptor must be installed with the bracket assembly to prevent insects from entering through the slots and causing a short circuit on the power board.

WIRING

⚠ WARNING

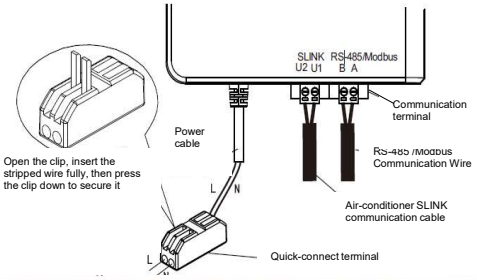
Before wiring is completed, make sure the S-LINK / Modbus adaptor's **power switch is turned OFF**.

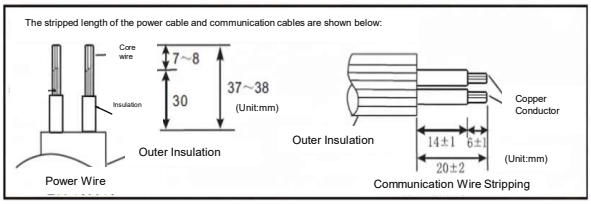
Power switch (Switch Up = OFF, Switch Down = ON)

■ When installing or servicing the S-LINK / Modbus adaptor, be sure to **disconnect power**, **cut off the power supply**, and **turn off the circuit breaker** beforehand.
■ Power Cable & Communication Cable Requirement
Power cable: Use 1.0 mm² cable (complying with IEC60245 or GB5035 Class 57 rubber-insulated flexible wire or above).
Communication cable: Use 0.75 mm² cable (use shielded cable; comply with IEC60227 or GB5023 Class 53 PVC-insulated flexible wire or above).

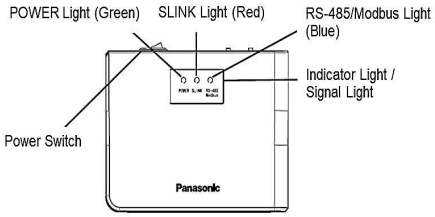
1. Connect the Power Supply
As shown in the diagram, use a dedicated power line to connect the unit to the power source (220-230 VAC).
Connect the power wires to the **L** and **N** terminals on the quick-connect terminal block.

2. Connect the Communication Cables
As shown in the diagram, connect the air conditioner S-LINK communication cable and the RS-485/Modbus communication cable to their respective communication terminals.
● The air conditioner S-LINK communication cable has **no polarity**.
● The RS-485/Modbus communication cable **has polarity**:
The **"+"** wire connects to the **RS-485/Modbus terminal A**.
The **"–"** wire connects to the **RS-485/Modbus terminal B**.
● Do not connect the communication cable of the S-LINK / Modbus adaptor to the power cable (such as 220-230 VAC).





SETTING

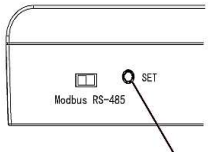


■ Indicator Light Meanings are as Follows:

● **POWER Light:**Used to indicate the **power-on status** of the S-LINK/ Modbus adaptor. The light is **solidly lit** when powered on.
● **S-LINK Light:** Used to indicate the **communication status** between the S-LINK / Modbus adaptor and the air conditioning unit.
Unit Searching: The light **flashes**.
Initial Communication Period: The light is **solidly lit**.
Periodic Communication Period (Once every 2 minutes): The duration the light is lit depends on the **number of air conditioning units connected**.
● **RS-485/Modbus Light:** Used to indicate the **communication status** between the S-LINK / Modbus adaptor and the RS-485/Modbus terminal controller. It **only flashes during communication**; otherwise, the light is **off**.

■ Before using the S-LINK / Modbus adaptor, make sure the air-conditioning unit is installed and its address and initial communication settings are completed.
■ After powering on the S-LINK / Modbus adaptor, it will automatically search for indoor and outdoor unit information. The S-LINK light will flash during the search and stay on when the search is finished. The S-LINK light stays on during initial communication and turns off when communication is complete.

※ If the S-LINK light on the S-LINK / Modbus adaptor does not flash after powering on, please check the S-LINK light status. (If the S-LINK light remains on for a short period, wait for it to turn off automatically.) Press and hold the SET button for 5 seconds to reset and re-search.
Operation method: Press the SET button; when the S-LINK light turns on, continue holding for 5 seconds until the S-LINK light turns off, then release.



SET Key / SET Button

■ If new air-conditioning units are added or removed, the S-LINK / Modbus adaptor must run a new automatic search (hold the SET button for 5 seconds).

If the POWER light on the S-LINK / Modbus adaptor does not light up after being powered on, or if the S-LINK light or RS-485/Modbus light does not light up for a long period under normal searching or communication conditions, it indicates a possible malfunction of the S-LINK / Modbus adaptor. For repair or replacement, please contact our authorized service agent.

Product Specifications Section

Rated Voltage: **Single-phase 220 - 230V~ 50Hz**
Rated Power: **1.5W**
Rated Current**: 0.06A**
Operating Temperature: **-10 to 50°C**
Operating Humidity: **20–80% (non-condensing)**

Manufacturer: **Panasonic Air-Conditioner (Guangzhou) Co., Ltd.No. 28, Wanbao North Street, Wanbao Base, Zhongcun, Panyu District, Guangzhou, Guangdong, China**
Distributor: **Panasonic HVAC & CC Systems Co., Ltd.1006, Oaza Kadoma, Kadoma-City, Osaka, 571-8501, Japan**
Place of Origin: **China**

Prepared in Malaysia
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