



# S – checker

Technical Manual

**FCC Notice**

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 the receiver. Connect the equipment to 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.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (a) This device may not cause harmful interference, and
- (b) This device must accept any interference received, including interference that may cause undesired operation.

(FCC Part 15.21) Caution: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

### [Use S-checker]

S-checker LCD for users convenience, Shows equipments information and control each functions with Button.



Button	Contents	Remarks
Left Button	Enter the top-menu	ESC
Right Button	Enter the sub-menu	Include input menu
Up Button	Setting +	Increase the value
Down Button	Setting -	Decrease the value
Select Button	Enter	Setting

Menu	Contents
Time & Date	Display set date and time, Modify mode switching when it clicked
Mem Usage View	Monitor of storage space and available space at SD card
Event Command	Lock outdoor unit function and approach Refrigerant detection mode
EEPROM Set	Record outdoor unit EEPROM
S/W Version	S/W version of S-checker

### [How to Inspect Communication Line]

S-checker can find out error of communication with the LED, When it first communicate with In & Outdoor unit. After communication inspection, if it founds error LCD will show the message.

Normal communication : RS-485 LED will blink  
Can not communicate 30seconds : LCD Message display

S-checker XXXXXX  
No Device

### [Important Safety and Handling Information]

#### **Warning**

If you do not follow the safety instructions, There is Risk of fire, electric shock or other injury, and S-checker or other assets could be impairment.

For the first time use S-checker please read this manual document.  
Do not removal battery.

#### [More Information]

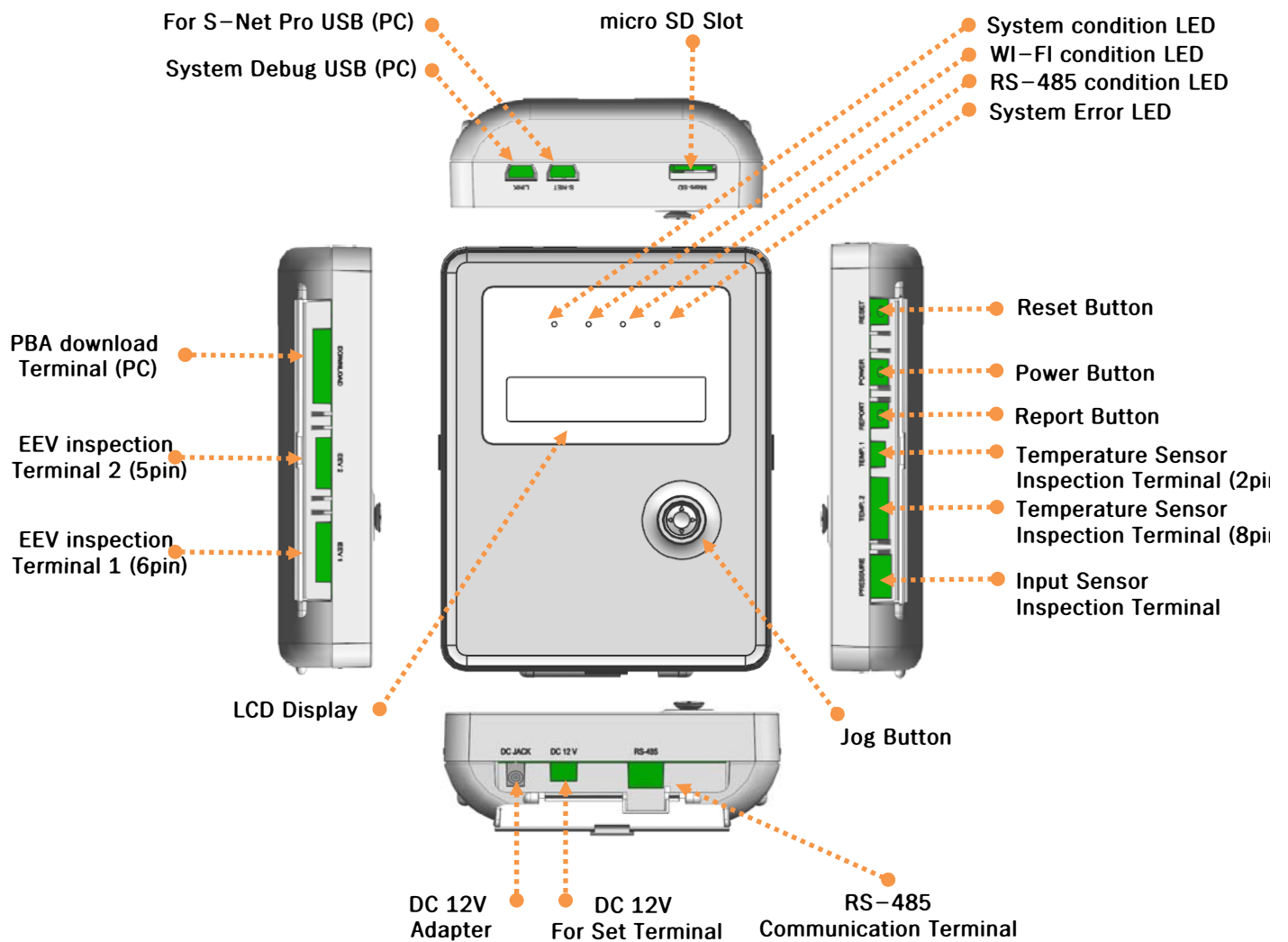
User can find more information at <http://www.cyclogic.net>

S-checker has 6month warranty period. If you look for technical information please contact to [info@cyclogic.net](mailto:info@cyclogic.net) or +82-31-789-8030.

## Welcome to use S-checker.

S-checker use for Samsung System Air-conditioner, Equipment of installation and Servicing for Smart Phone or Tablet PC. User can utilize Auto Test Report, Refrigerant detection, Part inspection, Various functions with S-checker.

### [Appearance]

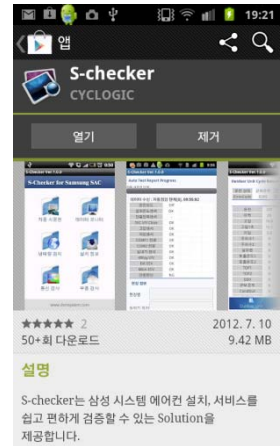


## [Installation App.]

For use S-checker user should install S-checker App on Smart Phone or Tablet PC.

Search at Google Play(Market) "S-checker" and user can find a picture like right side.

Press Install to automatic installation.



## [Installation S-checker]

Use RS-485 connector which included in S-checker, and connect with indoor & outdoor communication terminal with F1,F2.

There is no communication polarity, So user can connect any side of terminal.

Afterwards, Use magnet (back of S-checker) can be attached to the outside of the outdoor unit, when user want to receive long-term data.



## [How to use S-checker App]

To use S-checker, Connect with S-checker SSID on the mobile network.

SSID displayed Schecker\_XXXXXX(6digit back of S/N)

Wi-Fi connect with S-checker following picture will show up.



Menu	Contents
Auto Test Report	Create report of system auto test
Data Monitor	Real-time Data monitoring
Refrigerant detection	Set refrigerant output
Installation Info.	Information of in & outdoor unit installation
Part Inspection	EEV, Temperature, Press Part Check
Comm. Inspection	Installation of comm. equipment to perform inspection
Online Manual	Manual for S-checker
Move to mBiss	Links with mBiss site (when mBiss App. Installed)