

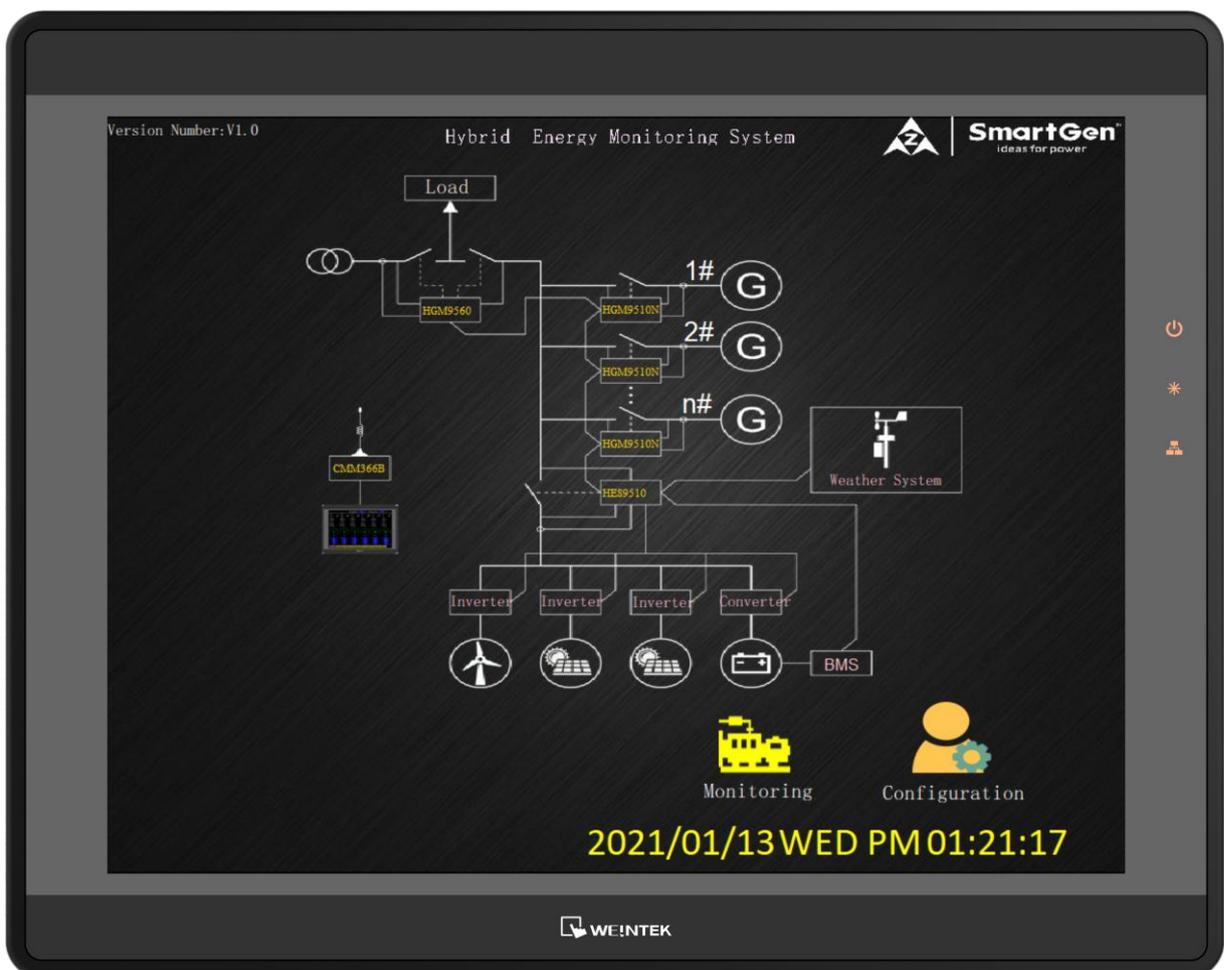


SmartGen
ideas for power

HES9510-RM

HYBRID ENERGY MONITORING SYSTEM

USER MANUAL



SMARTGEN (ZHENGZHOU) TECHNOLOGY CO., LTD.



Chinese trademark

SmartGen English trademark

SmartGen – make your generator *smart*

SmartGen Technology Co., Ltd.

No.28 Jinsuo Road, Zhengzhou, Henan Province, China

Tel: +86-371-67988888/67981888/67992951

+86-371-67981000(overseas)

Fax: +86-371-67992952

Email: sales@smartgen.cn

Web: www.smartgen.com.cn

www.smartgen.cn

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Table 1 - Software Version

Date	Version	Content
2020-09-10	1.0	Original release.
2021-01-13	1.1	Changed the picture of first page.



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1 OVERVIEW

HES9510-RM hybrid energy monitoring system is suitable for remote monitoring single/multi HGM9510N genset controllers, HGM9560 bus tie mains parallel controller, HES9510 hybrid energy controller, which can realize auto start/stop/closing/opening, data measurement, alarm display functions of controller. It fits with LCD display and touch screen, so as to make this module easy and reliable to use.

HES9510-RM controller based on high-end microprocessor design, communicates with HGM9510N genset controller and HES9510 hybrid energy controller via network interface, communicates with HGM9560 genset bus tie mains parallel controller via RS485. The parameters can be read directly through communication interface and displayed on the HES9510-RM screen, which can realize display general system layout and branch system parameters.

2 PERFORMANCE AND CHARACTERISTICS

- Single or up to 6 HGM9510N genset controllers can be monitored remotely;
- Single HGM9560 bus tie mains parallel controller can be monitored remotely;
- Single HES9510 hybrid energy controller can be monitored remotely;
- High-end ARM microprocessor as the core, LCD with backlight, visualization display, touch screen operation;
- Real-time display genset parameters and alarm information that detected by controller;
- HES9510-RM visualization display monitors the detailed parameters of controller and is able to control the push-button operation;
- Modular design, pluggable wiring terminals, embedded mounting, compact structure and easy installation.



3 LCD DISPLAY OPERATION

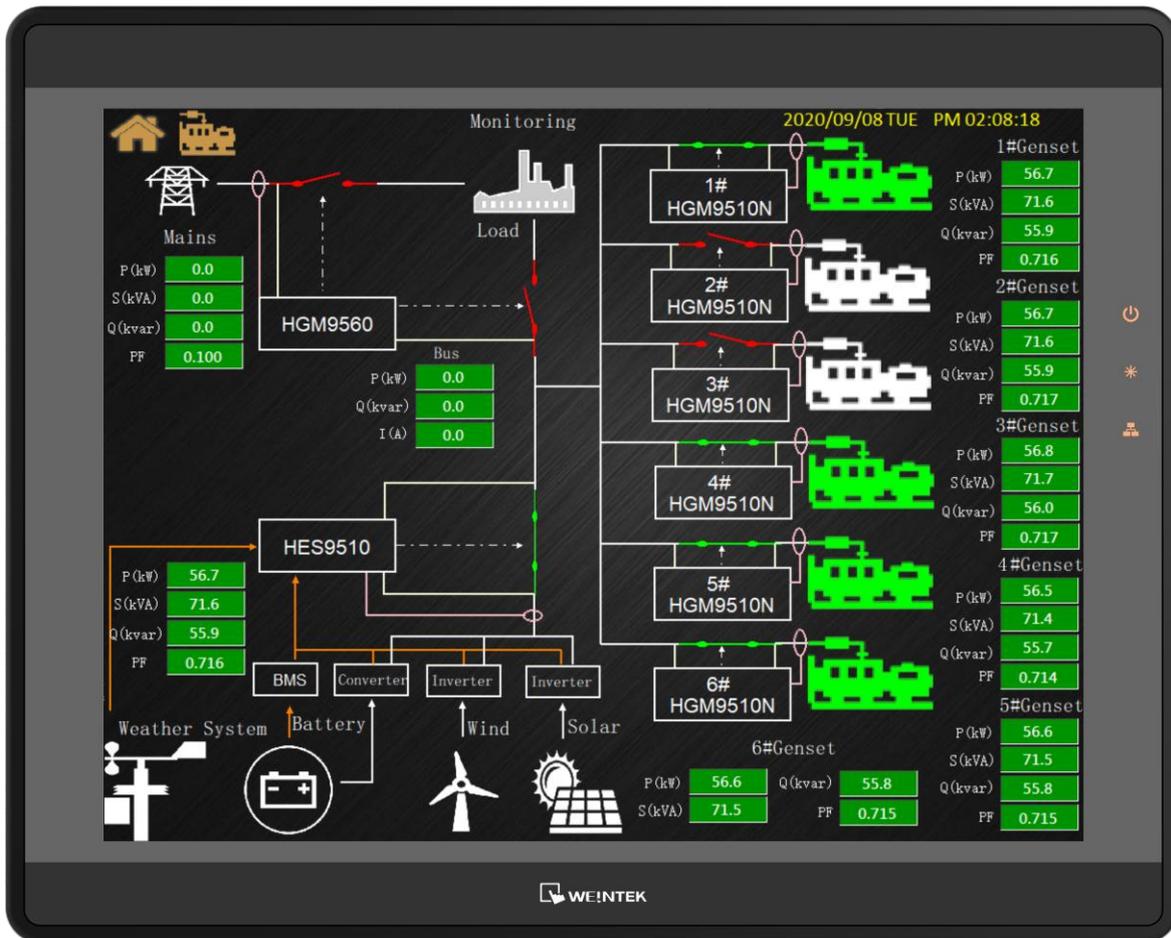


Fig.1 – System Monitoring Display Interface



Fig.2 - Single HGM9510N Genset Information Display



Fig.3 - HGM9560 Genset Information Display



Fig.4 - HES9510 Genset Information of Controller Display

The control keys on the interface of fig.2, fig.3 and fig.4 are the same as those on the controller panel, and the operation method is the same. The interface  is icon of genset monitoring selection key; the interface  is icon of returning to start.



4 SYSTEM CONFIGURATION DESCRIPTION



Fig.5 - System Configuration Interface Display

During network IP setting in fig.5, the No.1 ~.6 IP addresses of HGM9510N and HES9510 are the controller IP addresses. The setting IP address should be in a LAN with the IP address of screen, the IP address of the screen should be set in the opening hardware setting dialog box.(enter password:111111). When the number of connected HGM9510N is more than 1, please configure interchanger by yourself.



5 WIRE CONNECTION

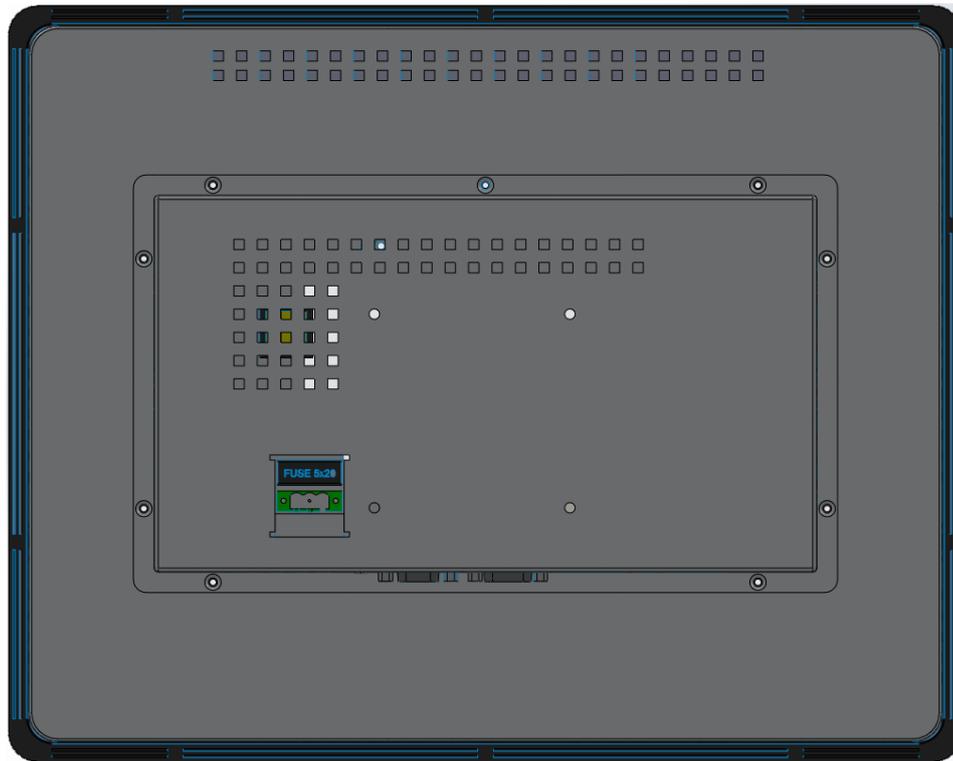


Fig.6 – Rear Panel

Note: Please unplug HES9510-RM power cable before wiring to avoid electric shock or accident.
(Please refer to *HMU15 Installation Instruction*)

Note: HES9510-RM communicates with HGM9560 via RS485 communication port, using the matched communication wire, one end (DB9) connects with HES9510-RM. There're 6 wires of the other side, which are 2 RS485 communication ports. 1#485+ and 1#485 communication port connects with HGM9560.



6 OVERALL AND CUTOUT DIMENSIONS

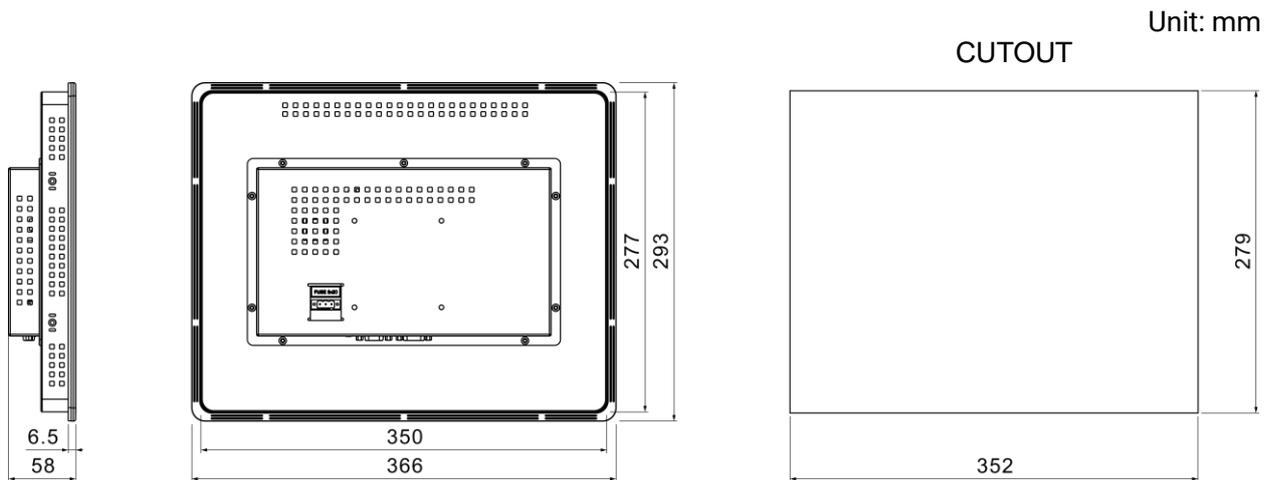


Fig.5 – Overall Dimensions

7 TROUBLESHOOTING

Please make sure that all cable connectors are securely connected to HES9510-RM;
Please make sure that the ground cable of HES9510-RM is grounded separately from the other equipment. In addition, cable with below 100Ω grounding resistance and above 1mm² cross sectional area is recommended or choose the cable according to the applicable standards in your country.

Please do not push hard or use hard objects press on the LCD screen of HES9510-RM.