



SmartGen
ideas for power

HMU15

GENSET REMOTE MONITORING CONTROLLER

USER MANUAL



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1 OVERVIEW

HMU15 genset controller is suitable for remote monitoring single/multi HGM9510 genset controllers, which can realize auto start/stop genset, data measurement, alarms display and “Three Remote” functions (remote control, remote measurement and remote communication). It fits with LCD display, multi-level operation authorities and touch screen, so as to make this module reliable and easy to use.

HMU15 controller, with high-end microprocessor design, communicates with HGM9510 genset controller via RS485. Then parameters of genset can be read directly through communication ports and displayed on the HMU15 screen.

2 PERFORMANCE AND CHARACTERISTICS

- Up to six HGM9510 genset controllers can be monitored remotely;
- High end ARM microprocessor as the core, LCD with backlit, visualization display and touch screen operation;
- Real-time display genset parameters and alarms information that detected by the HGM9510 controller;
- HMU15 is able to control detailed parameters and buttons operation of HGM9510 genset controller;
- Operation authorities can be configured to prevent misoperation from non-professionals resulting in abnormal operation of gensets and causing unnecessary accidents;
- High accuracy time display, and “engineer” or “technician” level authority can setting current time of system;
- Modular design, pluggable wiring connectors, built-in mounting, compact structure and easy to use.



3 LCD DISPLAY OPERATION

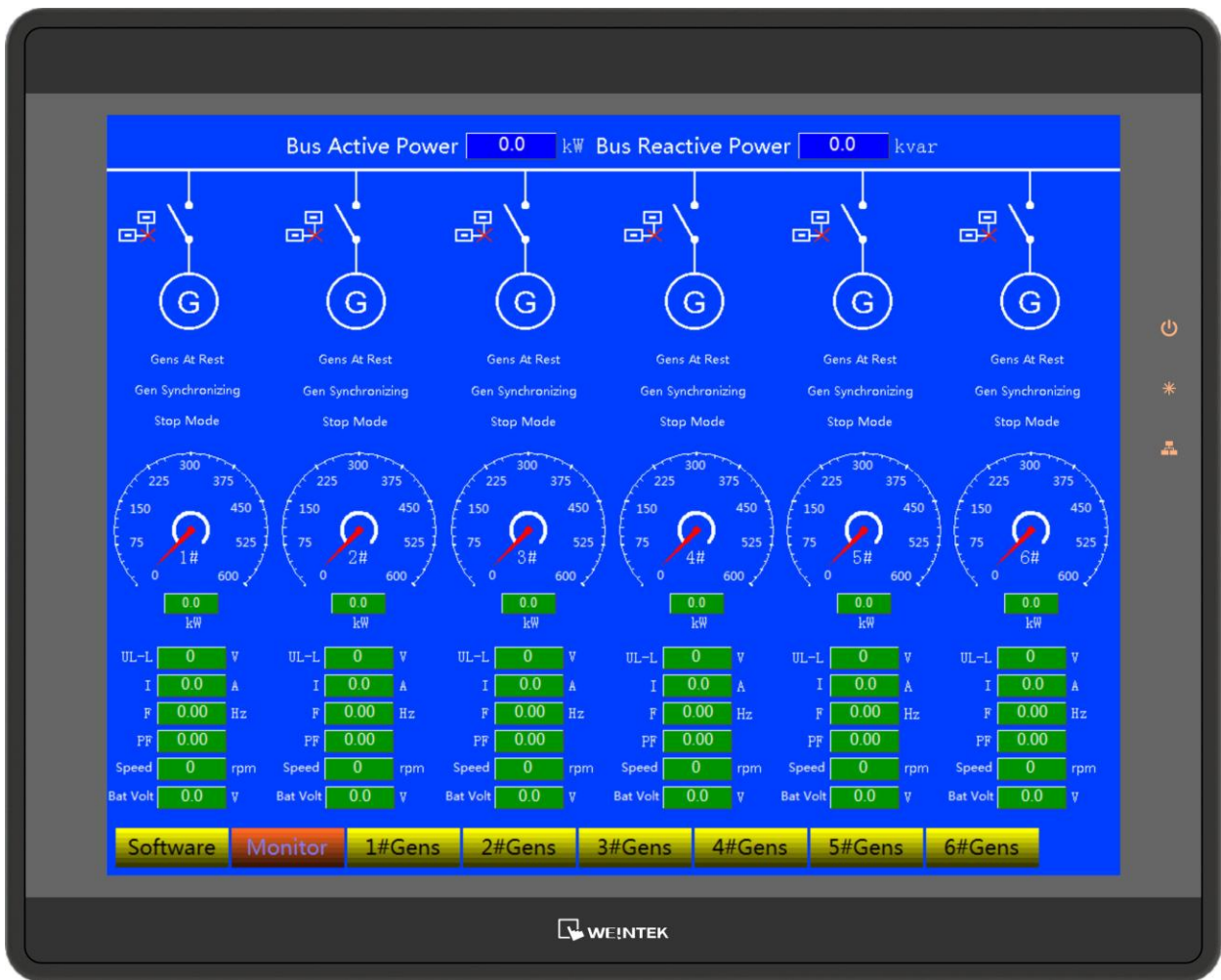


Fig.1 – System Integrated Display Interface



Fig.2 – Single Unit Display Interface

▲NOTE: buttons operation permission is restricted to “Technician” and “Engineer” authorities.

▲NOTE: “Engineer” password is default as 0; “Technician” password is default as 1; and “Operator” password is default as 2.



Fig. 3 – Software Setting Display Interface

NOTE: users can change genset information, regulate lightness level, select language (Chinese and English), and setting system time (limited in “Engineer” authority).



4 PUSHBUTTON FUNCTION DESCRIPTION

Table 3 – Buttons Function Description

Icon	Function	Description
	Stop	Stop running genset in auto/manual mode; Reset alarms in stop mode; Press it again in stopping process can make genset stop quickly.
	Start	Start genset in manual mode.
	Manual Mode	Press this key to configure controller as manual mode.
	Auto Mode	Press this key to configure controller as auto mode.
	Gen. Open	Press this key to control generator breaker open.
	Gen. Close	Press this key to control generator breaker close.

5 WIRE CONNECTION

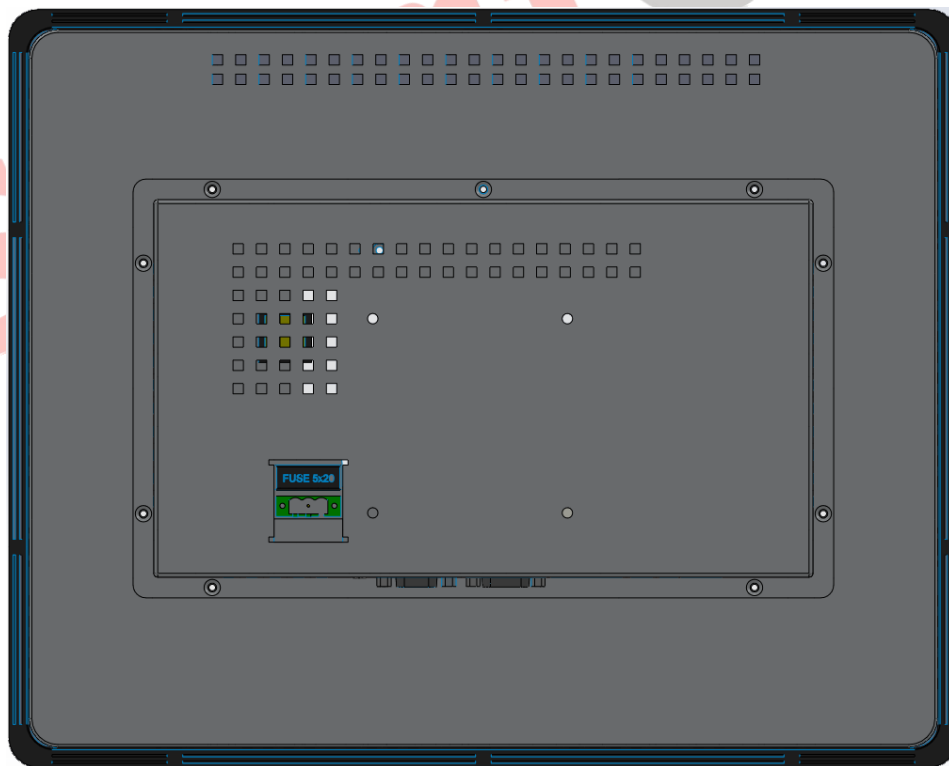


Fig.4 – Rear Panel

NOTE: Please unplug HMU15 power cable before wiring to avoid electric shock or accident.



NOTE: HMU15 communicates with HGM9510 via RS485 communication port, using the matched communication wire, one end (DB9) connects with HMU15, and the other end, which has 6 wires (two communication ports). 1#485+ and 2#485- are one communication port, which can connect with three HGM9510 controllers (communication address can be set as 1, 3, 5); 1#485+ and 2#485- are the other communication port, which can connect with three HGM9510 controllers (communication address can be set as 2, 4, 6).

6 OVERALL AND CUTOUT DIMENSIONS

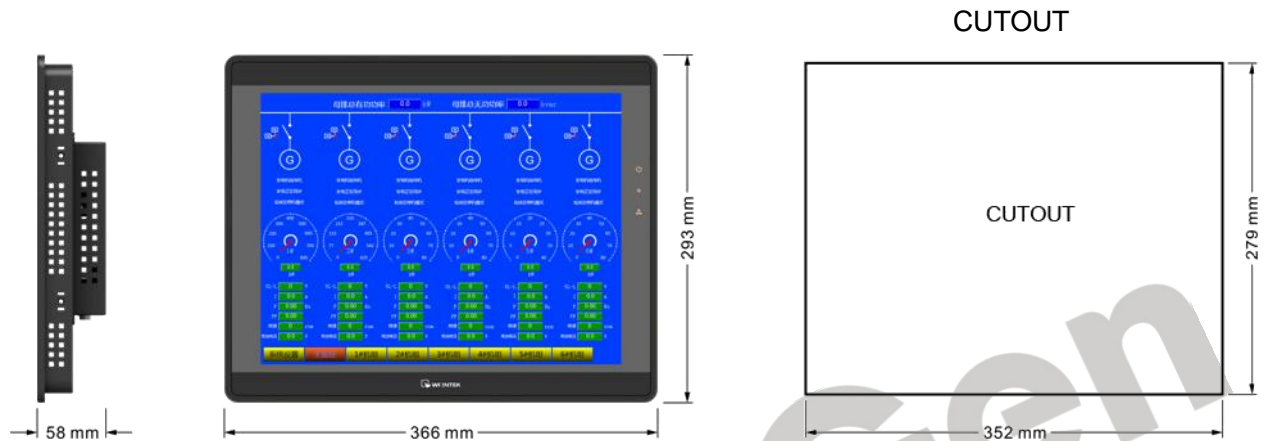


Fig.5 – Overall Dimensions

7 TROUBLESHOOTING

Please make sure all cable connectors are securely connected to the HMU15;

Please make sure that the ground cable of the HMU15 is grounded separately from the other equipment. Additionally, 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. Do not push hard or use hard objects press on the HMU15's display.