



## HGM4010DC

HGM4010DC Genset Controller integrates digitization, intelligentization and network technology which are used for genset automation and monitor control system of single unit to achieve automatic start/stop, data measure, alarm protection and “three remote” (remote control, remote measuring and remote communication). It fit with LCD display, optional Chinese/English/Spanish/Russian/Turkish languages interface, and it is reliable and easy to use.

Product Code : 6010008

Power Supply : DC(8-35)V

Case Dimensions : 130\*112\*39(mm)

Panel Cutout : 110\*90(mm)

Operating Temp. : (-25~+70)°C

Weight : 0.3kg

## **COMPLETE DESCRIPTION**

HGM410DC Genset Controller integrates digitization, intelligentization and network technology which are used for genset automation and monitor control system of single unit to achieve automatic start/stop, data measure, alarm protection and “three remote” (remote control, remote measuring and remote communication). It fit with LCD display, optional Chinese/English/Spanish/Russian/Turkish languages interface, and it is reliable and easy to use.

The powerful 32-bit ARM processor contained within the module allows for precision parameters measuring, fixed value adjustment, time setting and set value adjusting and etc. All parameters can be configured from front panel and they can be configured or monitored via auxiliary interface on PC (SG72 module produced by our company can be used to USB to LINK and RS485 ports). Due to its compact structure, simple connections and high reliability, HGM410DC can be widely used in several of genset automation systems.

## **PERFORMANCE AND CHARACTERISTICS**

HGM410DC is used for ASM (Automatic Start Module), it controls generator to start/stop by remote signal:

1. 132x64 LCD with backlight, selectable language interface (Chinese, English, Spanish,Russian and Turkish), push-button operation;
2. RS485 Communication Port, which achieves long distance remote control with simple connection;
3. Suitable for 3-phase 4-wire, 3-phase 3-wire, single phase 2-wire, and 2-phase 3-wire systems with voltage 120/240V and frequency 50/60Hz;
4. Collects and shows 3-phase voltage, current, power parameter and frequency of generator or mains.
5. For generator, controller has over voltage, under voltage, over frequency, under frequency and over current detection functions;
6. Precision collect and display parameters about Engine:
7. Control & Protection: automatic start/stop of the genset, ATS(Auto Transfer Switch) control with perfect fault indication and protection function;
8. Storage battery under voltage start: start when battery is under voltage, stop when voltage is normal;
9. Genset self-check function: automatic start when the genset hasn't been running for a long time and automatic stop when the genset has been running for a while;
10. With ETS(Energize To Stop), idle control, pre-heat control, speed raise control and speed drop control function; All output ports are relay-out;
11. Parameter setting: parameters can be modified and cannot be lost even in case of power outage; all the controller parameters can be adjusted using front panel of the controller or via PC using an SG72 adaptor.
12. Multiplex input port 3 and 4 can be used in various fields: input 3 can be used as auxiliary input port or level sensor while input 4 can be used as auxiliary input port or configurable sensor.
13. More kinds of curves of temperature, oil pressure, fuel level can be used directly and users can define the sensor curves by themselves;

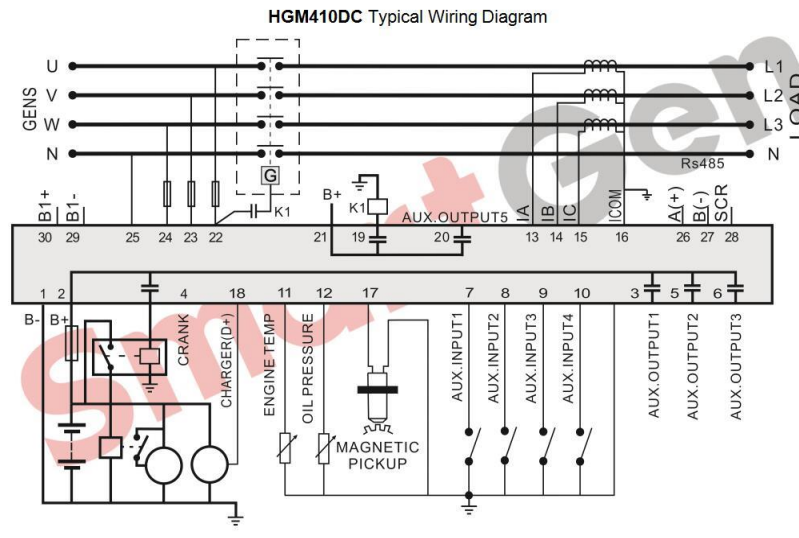
14. Configurable sensor: can be set as temperature sensor, oil pressure sensor or fuel level sensor, enable the detection of double temperature, double oil-pressure and double fuel level.
15. Multiple crank disconnect conditions (magnetic pickup, oil pressure, generator frequency) are optional;
16. Widely Power supply range: DC(8~35)V, suitable to different start battery voltage environment.
17. All parameters used digital adjustment, instead of conventional analog modulation with normal potentiometer, more reliability and stability;
18. Modular design, self-extinguished ABS plastic enclosure, pluggable connection terminals and embedded installation way; compact structure with easy mounting.

### PARAMETER LIST

Function Item	Parameter
Display	LCD(132*64)
Operation Panel	PET
Language	Chinese & English & Others
Digital Input	4
Relay Output	6
Analogue Input	4
Battery Voltage Detect	●
AC System	1P2W/2P3W/3P3W/3P4W
Alternator Voltage	(15~360)V(ph-N)
Alternator Frequency	50/60Hz
kW/Amp Detecting & Display	●
Monitor Interface	LINK/RS485
Programmable Interface	LINK/RS485
DC Supply	DC(8~35)V
Case Dimensions(mm)	130*112*39

Function Item	Parameter
Panel Cutout(mm)	110*90
Operating Temp.	(-25~+70)°C

### HGM4010dc Typical Application



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