PRESERTEC prestación servicio técnico

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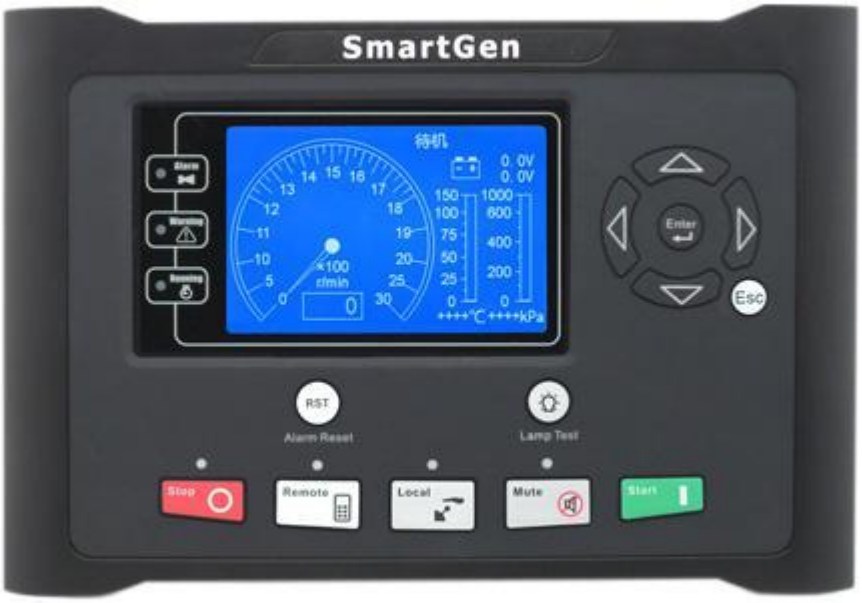
SmartGen ideas for power



HMC9000S

HMC9000 diesel engine 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 measurement, alarm protection and “three remote” (remote control, remote measuring and remote communication). It fits with TFT-LCD display, optional Chinese/English languages interface, and it is reliable and easy to use.

Product Code：6030002
Power Supply：DC(18-35)V
Case Dimensions：266*182*45(mm)
Panel Cutout：214*160(mm)
Operating Temp. ：(-25~+70)℃
Weight：0.9kg

COMPLETE DESCRIPTION

HMC9000 diesel engine 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 measurement, alarm protection and “three remote” (remote control, remote measuring and remote communication). It fits with TFT-LCD display, optional Chinese/English 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. Majority parameters can be configured from front panel or by communication interface via PC. Due to its compact structure, simple connections and high reliability, HMC9000 enjoys wide application in all types of diesel engine automation systems. It can be widely used in marine emergency units, main propulsion units, main generator units and pumping units.

SAE J1939 interface of HMC9000 diesel engine controller allows its communication with ECU engines. Multiple parameters such as engine speed, water temperature, oil temperature, oil pressure can be transmitted via this communication interface and displayed on LCD, so there is no need to install additional sensors and complicated wiring is avoided. This port also enables all kinds of module expansion; it combines fast data transmission, simple connections and high reliability.

HMC9000 diesel engine controller can be connected to a remote control module that will perform remote start, remote stop and other functions.

PERFORMANCE AND CHARACTERISTICS

1. 32-bit ARM micro-processor, 4.3 inches LCD display with backlight, optional Chinese/English interface, push-button operation.
2. Ability to control and communicate with dozens of ECU engines via J1939 interface which can also be connected to digital input module, digital output module, LED lamp indicator module, security module, meeting modules expanding needs of user.
3. Remote monitoring and remote control via REMOTE (CANBUS) port; HMC9000 panel lock in remote mode (except for 'stop’ button), making work safe and convenient.
4. RS485 and USB communication ports enable data transmission as well as remote control, remote measurement and remote communication to be performed with the help of PC monitoring software via MODBUS protocol;
5. Control and protection: remote/local start and stop, alarm protection.
6. Override mode, in which only overspeed shutdown and emergency shutdown will be able to stop the engine;
7. Parameter setting: parameters can be modified and stored into internal FLASH memory and can not be lost even in case of power outage;
8. Four 4-20mA inputs for pressure or liquid level sensors;
9. Four resistance sensor inputs for pressure, PT100 temperature, liquid level or other sensors; also can perform the Electronic GOV function.
10. Real-time calendar, real-time clock, engine total run-time accumulation;
11. Display the total start times;

12. Built-in watchdog to ensure smooth program execution.
13. Built-in speed detection that accurately estimates starter disconnect speed, rated speed and overspeed.
14. 99 event logs can be saved circularly and can be inquired on the spot.
15. Two battery monitoring and transfer function; performed via external port according to the set switchover voltage value;
16. Digital regulation of all parameters - instead of analog regulation using conventional potentiometer - and, therefore, higher reliability and stability;
17. Multiple speed regulation ways: either via GOV voltage output port or via programmable output port;
18. Some Input/output ports have break wire detection function;
19. Modular design, self extinguishing ABS plastic enclosure and embedded installation way; small size and compact structure with easy mounting

PARAMETER LIST

Function Item	Parameter
Display	4.3 inches TFT-LCD (480*272)
Operation Panel	Silicon Rubber
Language	Chinese & English
Digital Input	18
Analogue Input	8
Relay Output	8
Transistor Output	8
Current Sensor	4
Resistance Sensor	4
HRM3300 Module Extension	●
LA16 Module Extension	●
RPU560A Module Extension	●
AIN16 Module Extension	●
AIN16-PT Module Extension	●
AIN16-C Module Extension	●
AIN16-K Module Extension	●

Function Item	Parameter
AIN16-M01 Module Extension	●
DIN16 Module Extension	●
DOUT16B Module Extension	●
COM. Interface	RS485/USB
CANBUS Port Extension	●
Remote CANBUS Port	●
CANBUS(J1939)	有
RTC & Event Log	有
GOV	●
DC Supply	DC(18-35)V
Case Dimensions(mm)	266*182*45
Panel Cutout(mm)	214*160
Operating Temp.	(-25~+70)℃

HMC9000c Typical Application