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众智科技
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HEM4100

HEM4100 ENGINE CONTROLLER is used for controlling engine to realize engine auto start/stop, data measure, alarm protection and "three remote" (remote control, remote measuring and remote communication) functions. It fits with speed regulation function, not only with relay adjust speed output but also with CANBUS(SAE J1939) interface, which can control various kinds of J1939 or conventional engines.

Product Code：6040006
Power Supply：DC(8-35)V
Case Dimensions：135*110*44(mm)
Panel Cutout：116*90(mm)
Operating Temp. ：(-25~+70)℃
Weight：0.35kg

COMPLETE DESCRIPTION

HEM4100 ENGINE CONTROLLER is used for controlling engine to realize engine auto start/stop, data measure, alarm protection and "three remote" (remote control, remote measuring and remote communication) functions. It fits with speed regulation function, not only with relay adjust speed output but also with CANBUS(SAE J1939) interface, which can control various kinds of J1939 or conventional engines.

HEM4100 ENGINE CONTROLLER adopts large liquid crystal display (LCD) and selectable Chinese and English interface with easy and reliable operation. Users can read engine working parameters from the LCD directly.

HEM4100 ENGINE CONTROLLER uses 32 bits micro-processor technology with precision parameters measuring, fixed value adjustment, time setting and threshold adjusting and etc. The majority of parameters can be set using front panel buttons and all the parameters can be set and monitored by using PC via USB port or RS485 port. With compact structure, simple connections and high reliability, it can be widely used in a number of automatic genset control system, which including water pump system, bacon system, air compressor, engineering machinery system and so on.

PERFORMANCE AND CHARACTERISTICS

1. 132x64 LCD with backlight, multilingual interface (including English and Chinese languages) and easy operate interface;
2. Improved LCD wear-resistance and scratch resistance due to hard screen acrylic;
3. Silicon panel and pushbuttons for better operation in high and low temperature environment;
4. RS485 communication port enabling remote control, remote measuring, remote communication via ModBus protocol;
5. Equipped with CANBUS port and can communicate with J1939 genset. Not only can you monitoring frequently-used data (such as water temperature, oil pressure, speed, fuel consumption and so on) of ECU machine, but also control start, stop, raising speed and speed droop via CANBUS port;
6. 6 channels of analog sensors, 3 channels of fixed resistor type sensor, and 3 channels of flexible sensors, which can be configured as resistor/current/ voltage type sensors;
7. Multiple temperature, pressure and level sensor curves can be used and user-defined directly;
8. Precision collect various kinds of engine parameters and with comprehensive protection functions, such as engine high water temperature/ low oil pressure, over speed and under speed protection functions;
9. Speed regulation function, which can control engine raise/drop speed manually;
10. With high speed/idling speed switchover function;
11. All outputs are relay outputs;
12. Parameter setting: parameters can be modified and stored in internal FLASH memory and cannot be lost even in case of power outage;
13. Multiple crank disconnect conditions (engine speed and oil pressure) are optional;
14. Engine speed can be achieved by speed sensor or W/L of charging generator;
15. Widely power supply range DC(8~35)V, suitable to different start battery voltage environment;
16. Event log, real-time clock, scheduled start & stop generator (can be set as start genset once a day/week/month whether);
17. With heater, cooler and fuel pump control function;
18. With maintenance function. Actions (warning or shutdown) can be set when maintenance time due;

19. All parameters used digital adjustment, instead of conventional analog modulation with normal potentiometer, more reliability and stability;
20. Waterproof security level IP65 due to rubber seal installed between the controller enclosure and panel fascia;
21. Metal fixing clips enable perfect performance in high temperature environment;
22. Modular design, flame retardant ABS plastic enclosure, pluggable connection terminals and embedded installation way; compact structure with easy mounting.

Application

TYPICAL APPLICATION
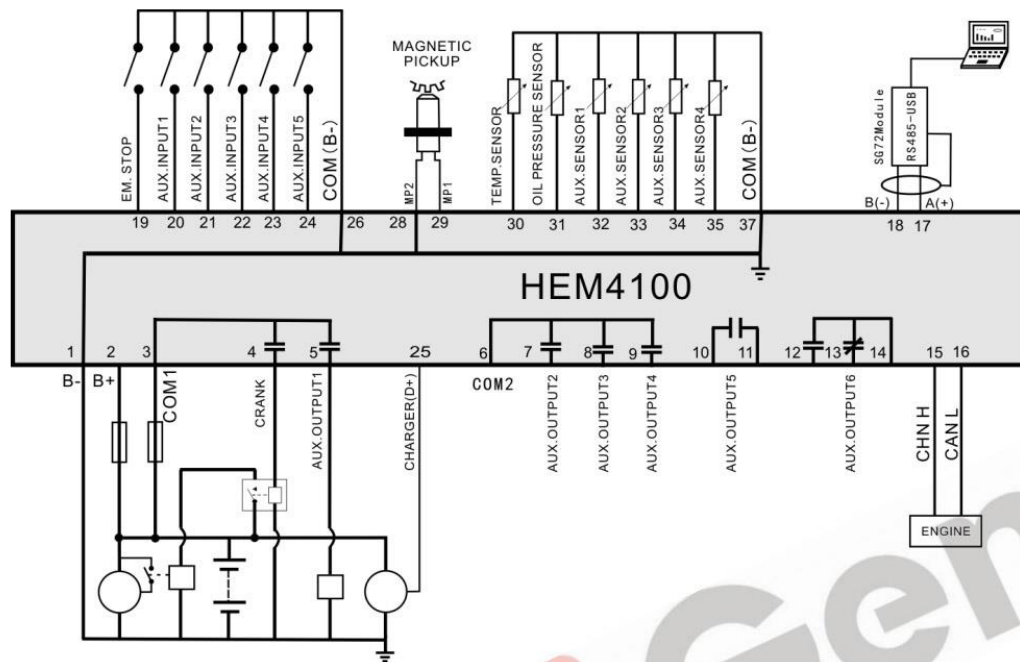
HEM4100 Typical Application Diagram