

Features

Controller DC10K is designed as one of the engine manual start controller.

The Hz, Volt, Battery voltage and accumulation time can be displayed through the front face LED screen. This controller is also with various kinds of stop and alarm indications to monitor the genset status. Besides, it can also connect with PC so that parameters can be set through Computer to equip for more different gensets.

Panel introduction

1. Indicators

	Gen frequency		Over/under speed
	Gen voltage		Low oil pressure
	Battery voltage		High water temperature
	Accumulated time		Charging abnormal
	Emergency stop		Over voltage

Note:

- 1) Over speed value will be displayed by flashes after over speed alarm.
- 2) Over voltage value will be displayed by flashes after over voltage alarm.
- 3) Charge failure will be displayed as alarm indication but will not stop the engine.

2. Buttons introduction

 Display buttons:

Four status switch (gen voltage, gen frequency, battery voltage, accumulated time). Press the PAGE button in 5 sec above under Module on power but stop mode, the frequency can be switched between 50Hz and 60Hz.

Operation

1. Power on : Switch "0" to "I" till the tube is lighted, In the procession of cranking, over speed indicator will be lighted if the crank is not successful after 45sec. (controller will cut off fuel solenoid's output and come into protection)

2. Start running: Switch "I" to "II" till engine started. Once power on the engine, it will be cranked. the controller will come into running status after 8 sec if cranking successfully. Then the controller will monitor the relative parameters and set protection. (the controller will cut off fuel solenoid output and display the alarm status if the genset is stopped.) Please Switch from "I" to "0".

3. Stop and reset: Switch from "I" to "0" and take off the power.

Parameter setting

Please connect the module to PC by communication cables and powered on.

1.Alarm setting

Over speed alarm: *1710RPM(Rated 50Hz), 2040RPM(Rated 60Hz)*, range: 0-4000RPM, when the RPM is over this value and keep more than 1sec, then the controller will alarm and stop.

Over frequency alarm: *57Hz(Rated 50Hz), 68Hz(Rated 60Hz)*, range:40-80Hz, when the frequency is over this value and keep more than 1 sec, then the controller will alarm and stop.

Low frequency alarm: *20Hz*, range: 20-60Hz, when the frequency is lower than the value and keep more than 5sec, the controller will alarm and stop.

Over voltage alarm: *265V*, range:50-500v, 500V is set as forbidden. When the voltage is over this value and keep more than 5sec, then the controller will alarm and stop.

Charging failure D- value:*6V*, range:1-24V, when the different value between charging D+ and Battery B+ is over this value and keep more than 5sec, then the controller will alarm.

2.Display setting

Four Screen self-cycling display: the parameters shall be switched timely according to the interval time setting after choosing this option.

Homepage option: one parameter can be displayed as homepage display after choosing this function. The page will be switched automatically after pressing page change button for a while.

Revert-back delay: the time to revert back to homepage.

Self-cycling display time: the interval time setting.

Technical Specifications:

- ◆ Power supply: 8-33VDC
- ◆ Power consumption: MAX 2W(Working)
- ◆ Alternator Voltage input: 15-300VAC, 50/60Hz
- ◆ Speed input: Freq 300Hz~10kHz
- ◆ Fuel output: MAX 16A
- ◆ Start output: MAX 10A
- ◆ Excitation Output: MAX 80mA
- ◆ Alarm output: MAX 16A
- ◆ Operating temperature: -30-75℃
- ◆ Storage temperature: -40-85℃
- ◆ Dimensions: 78×78×72mm
- ◆ Pannel cutout: 67×67mm
- ◆ Weight: 280g

Diagram

