Features

Controller DC10KE is designed as one of the engine manual start controller. The engine speed, battery voltage, current running time 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 engine status. Besides, it can also connect with PC so that parameters can be set through Computer to equip for more different engines.

Panel introduction

1.Indicators



Engine speed



Battery voltage



Current running time



Accumulated time



Emergency stop


Over/under speed


Low oil pressure


High water temperature


Charging abnormal


Common alarm

Note:

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

2.Buttons introduction


Display buttons:

Four status switch (engine speed, battery voltage, current running time and accumulation time).

Press the PAGE button in 5 sec above under Module on power but stop mode ,the frequency can be switched between 1500RPM and 1800RPM.

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 engine 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 1500RPM), 2040RPM(Rated 1800RPM),*** range: 0-4000RPM, when the RPM is over this value and keep more than 1sec, 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.

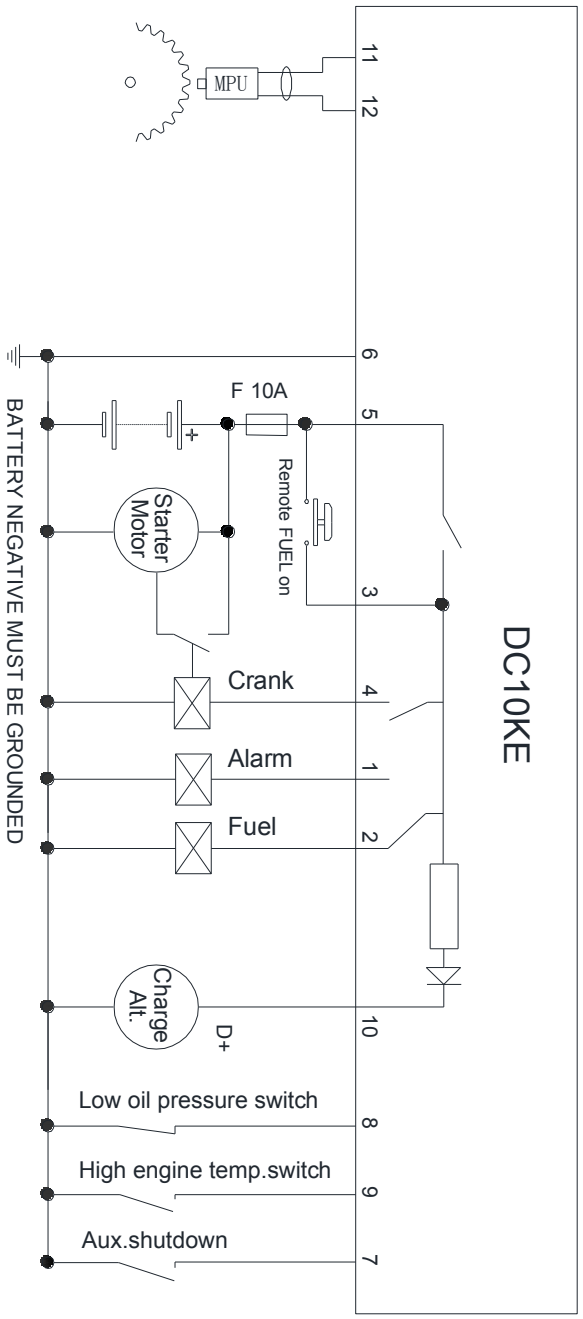
Revert-back delay: the time to revert back to homepage.

Self-cycling display time: the interval time setting.

Technical Specifications：

- ◆ Power supply：8-33VDC
- ◆ Power consumption：MAX 2W(Working)
- ◆ 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


MPU
11
12
DC10KE
6
5
3
4
1
2
10
8
9
7
F 10A
+
BATTERY NEGATIVE MUST BE GROUNDED
Remote FUEL on
Starter Motor
Crank
Alarm
Fuel
Charge Alt.
D+
Low oil pressure switch
High engine temp.switch
Aux.shutdown