LED Temperature

Fan Controller

MODEL：DF-011B

FAN1   TEMP

88.8 °F °C

FAN2

88:88

TIMER COUNT TOTAL

SET   UP   DOWN

Manual

This LED display is part of a computer chassis to control two regular 120 mm 3PIN fans. The temperature inside the chassis is being measured constantly and in real-time, while the PC is running, in order to adjust the temperature of the whole system automatically.

FEATURES:

1. Dynamic LED display:
If fan is active, the display shows an animated fan. In case the fan is inactive, no animation will be shown.

Fan 1 continuously runs at all times. Fan 2 only starts to run, once the temperature inside the chassis reaches a pre-defined value. Initially this value is set to 38°C.

2. Internal temperature sensor:
The temperature can be displayed either in Celsius or Fahrenheit.

3. FAN1:
FAN1 starts to run on maximum speed, once the computer has been switched on. The speed for this fan cannot be changed. The animation for this fan is permanently active.

4. FAN2:
If the temperature inside the chassis exceeds the pre-defined temperature, FAN2 starts to run, accompanied by a short alarm. As soon as the temperature falls below the pre-defined value, the fan runs another 10 minutes, after which it stops.

5. Additional features:
- Clock = Time
- TIMER = Alarm
- COUNT = shows the daily working hours of the computer
- TOTAL = shows the total working hours of the computer

6. All settings will be saved and, thanks to the battery, are being kept in the internal memory, even in case of a power outage

7. Switch the display on/off:
Hold the "SET" button for 3 seconds to switch the display on or off.
At the first start, the display will be switched on.

Technical specifications:

Dimensions of the LED display: 50 mm × 50 mm

Colors of the LED display: RGB

Voltage: DC 5V/12

Fan specifications: DC 12V   I<300mA.

Temperature range: -10°C to 90°C. In case, the temperature falls below -10°C, the display shows "LO". Should the temperature reach more than 90°C, "HI" will be displayed.

Accuracy: ±1°C, if the temperature sensor is defect, the display flashes and shows "ERR", accompanied by an alarm.

Battery: CR2032

Features / Settings:

"SET" button:

By pressing this button you can change the values of the different features like the temperature, the time etc. After pressing this button, the display starts flashing and you can change the values according to your wishes with the "UP" and "DOWN" button. To confirm and to go to the next setting, press the "SET" button again.

"UP" button:

If you would like to switch between Celsius/Fahrenheit, you can just press this button.

"DOWN" button:

If you press this button you can chose, which of the following should be displayed below the temperature: the clock, TIMER, COUNTER or TOTAL.

Switch the alarm on /off:

If you press the "UP" button + "DOWN" button at the same time, the display shows either "ON" or "OFF".

Delete the boot timer:

Press the "SET" button + "UP" button at the same time.

"RESET" button:

The "RESET" button is on the left side of the LED display and can only be accessed by removing the front panel and the display. However, usually it is sufficient to just remove the battery for about 10 minutes in order to reset the display to its initial stage.

Installation:

Please connect the 4PIN Molex connector to the power supply. Now you can connect two of the front fans with "FAN1" and "FAN2". The temperature sensor is connected to the white cable. Should you read "ERR" on the display, please check, whether the cables are connected to the display properly, by removing the front panel. Should the battery need to be replaced, the procedure is the same, remove the front panel and replace the battery with a new one of the same type (CR2032).

Note: This module controls maximum two system fans.