

Oxygen Sensor Demo Board Operating Instructions



I. Summary

The oxygen sensor demonstration board is a self-made engineering prototype test board of Aosong Electronics. According to the different interfaces, it can be applied to the oxygen sensor of the AO-02/03/07/08/09 model to demonstrate the sensor's change with the oxygen concentration. The change of output signal, this operation manual takes the demo board suitable for AO-09 oxygen sensor as an example, the operation of other types of sensor demo board can refer to this version.

II. Instructions

1 Preparation steps

- 1.1 Check whether the socket of the demo board corresponds to the sensor interface to be detected;
- 1.2 Need to prepare: Micro-USB data cable, computer, port driver "cp210x", host computer software "Serialport.exe".

2 When use battery

- 2.1 Insert the oxygen sensor to be tested into the socket of the demo board, and turn the DIP switch on the back of the demo board to "1" state;



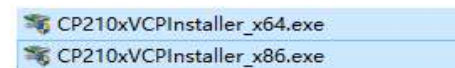
- 2.2 Short press the "wake" button on the front of the demo board to wake up the screen;
- 2.3 Place the sensor in a well-ventilated environment. After 5 minutes of power on, press and hold the "21%" key to calibrate. After calibration, the screen will display the value in the range of 20.9 ± 0.3 ;
- 2.4 Change the oxygen concentration of the environment, and check the digital change on the display. This number represents the oxygen concentration of the environment to be measured.

3 When use PC for record

- 3.1 Connect the demo board to the computer through a Micro-USB cable;
- 3.2 Find the "Silicon Labs CP210x USB to UART Bridge" port on the computer's device manager;



- 3.3 If this port is not found, you need to select the corresponding driver under the "cp210x" folder for installation;



- 3.4 After installing the driver, open the "Oxygen Sensor Demonstration Board Host Computer" folder, and then open the "Serialport1.exe";
- 3.5 Open the software interface, select the corresponding port, click "Open Port", and the host computer software starts to record data;



- 3.6 After completing the test, you can click "Export" to save the test data.

- 4 After the test, pull out the sensor and turn the DIP switch back to the "ON" state.

III. Precautions

- Sampling time : 1s
- Automatic off : 5 minutes
- Do not press the "21%" key when no load
- Battery : 3V
- Micro-USBSupply : 5V
- Current : 500mA2



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