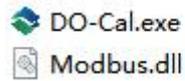
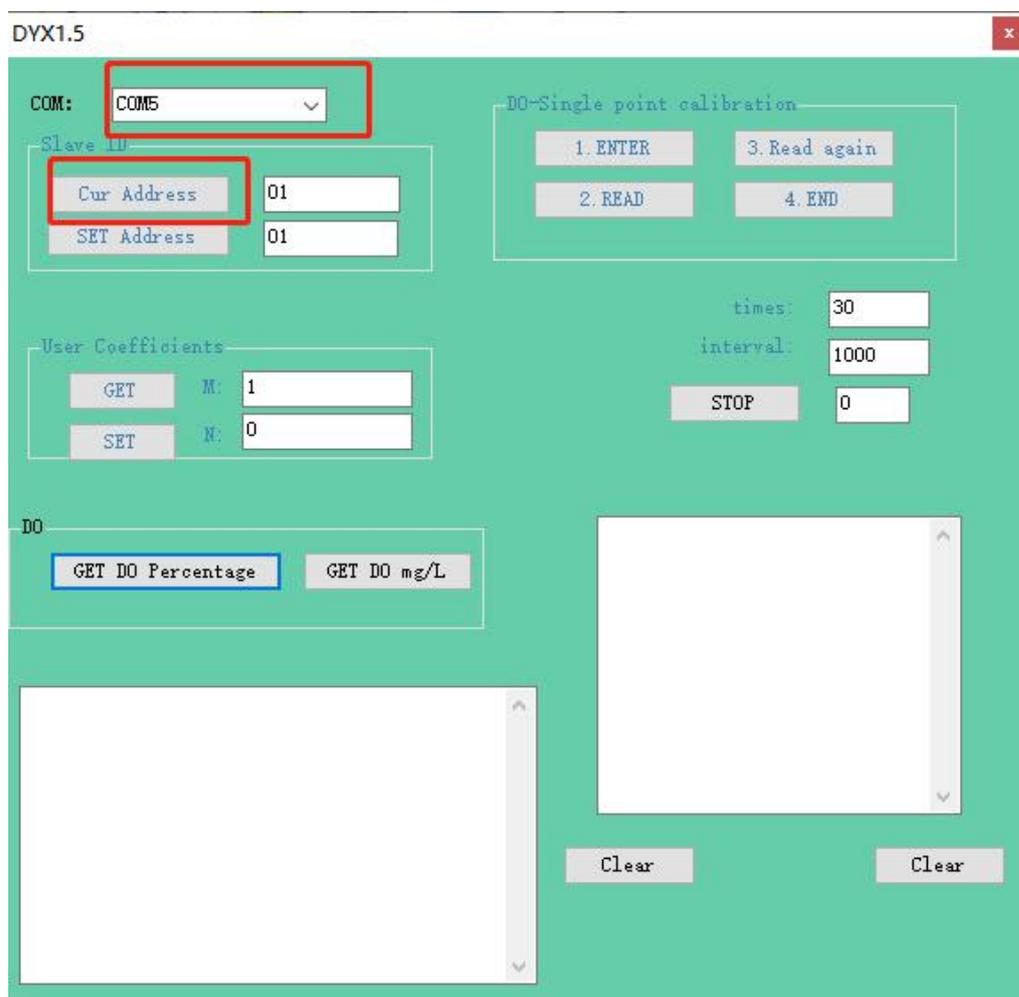


Dissolved Oxygen Calibration Process

Before calibration, connect the sensor to the PC, remove the protective cap from the sensor and open the DO-Cal software.



Step 1: Open the software and get the address



Step 2:

Before start calibration, let's test the sensor and see what data we get.

➤ Get DO Percentage



DYX1.5

COM: COM5

Slave ID

Cur Address: 01

SET Address: 01

DO-Single point calibration

1. ENTER 3. Read again

2. READ 4. END

times: 30

interval: 1000

STOP 0

DO

GET DO Percentage GET DO mg/L

```
SEND: FF 03 30 00 00 01 9E D4
GET:  FF 03 02 01 00 90 00
```

Clear Clear

DO

GET DO Percentage GET DO mg/L

```
SEND: FF 03 30 00 00 01 9E D4
GET:  FF 03 02 01 00 90 00
SEND: 01 03 20 00 00 04 4F C9
GET:  01 03 08 AD 8F B8 41 87 C6 8A 3F E8 70
SEND: 01 03 20 00 00 04 4F C9
GET:  01 03 08 AD 8F B8 41 0F C4 8A 3F 62 10
SEND: 01 03 20 00 00 04 4F C9
GET:  01 03 08 BD A1 B8 41 D2 98 8A 3F 57 60
SEND: 01 03 20 00 00 04 4F C9
GET:  01 03 08 AD 89 B8 41 0E 96 8A 3F A4 3D
SEND: 01 03 20 00 00 04 4F C9
GET:  01 03 08 BD A7 B8 41 6A 7B 8A 3F E4 36
SEND: 01 03 20 00 00 04 4F C9
GET:  01 03 08 AD 83 B8 41 F5 4B 8A 3F 8D 23
```

1. 084184	23. 070150
1. 084108	23. 070150
1. 082789	23. 078970
1. 082704	23. 067220
1. 081891	23. 081900
1. 080424	23. 064290
1. 077520	23. 064290
1. 077133	23. 070150
1. 077336	23. 067220

Clear Clear



➤ Get DO mg/L

The screenshot shows the 'DO-Single point calibration' window in the DYX1.5 software. The 'COM' port is set to 'COM5'. Under 'Slave ID', 'Cur Address' and 'SET Address' are both '01'. The 'User Coefficients' section has 'GET' set to 'M: 1' and 'SET' set to 'N: 0'. Calibration parameters are 'times: 30', 'interval: 1000', and 'STOP: 23'. A red box highlights the 'GET DO mg/L' button. To its right, a scrollable list shows DO readings: 9.154178, 9.145412, 9.143525, 9.135195, 9.146473, 9.157401, 9.175203, 9.161672, 9.163421, 9.153367, 9.155238, 9.167098. A 'Clear' button is located below the list.

Step 3: Click the 1.ENTER

This screenshot shows the same software interface as above, but with a dialog box overlaid. The dialog box contains the text: 'Please place the probe in an open area and click the second button'. A red box highlights the '1.ENTER' button in the background and the '确定' (Confirm) button in the dialog box. The 'DO-Single point calibration' section shows 'times: 30' and 'STOP: 30'. The scrollable list of DO readings now includes: 9.120987, 9.138707, 9.140091, 9.146438.



Step 4: Click the 1.READ

COM: COM5

Slave ID

Cur Address: 01

SET Address: 01

DO-Single point calibration

1. ENTER 3. Read again

2. READ 4. END

times: 30

interval: 1000

STOP: 30

Wait for the data to stop reading and click the third button

确定

SEND: FF 03 30 00 00 01 9E D4
GET: FF 03 02 01 00 90 00
SEND: 01 03 20 00 00 04 4F C9
GET: 01 03 08 AD 8F B8 41 87 C6 8A 3F E8 70
SEND: 01 03 20 00 00 04 4F C9
GET: 01 03 08 AD 8F B8 41 0F C4 8A 3F 62 10
SEND: 01 03 20 00 00 04 4F C9
GET: 01 03 06 BD A1 B8 41 D2 98 8A 3F 57 60
SEND: 01 03 20 00 00 04 4F C9
GET: 01 03 08 AD 89 B8 41 0E 96 8A 3F A4 3D
SEND: 01 03 20 00 00 04 4F C9
GET: 01 03 08 BD A7 B8 41 6A 7B 8A 3F E4 36
SEND: 01 03 20 00 00 04 4F C9
GET: 01 03 08 AD 83 B8 41 5E 4B 8A 3F 8D 23

We will see the data here.

COM: COM5

Slave ID

Cur Address: 01

SET Address: 01

DO-Single point calibration

1. ENTER 3. Read again

2. READ 4. END

times: 30

interval: 1000

STOP: 10

GET DO Percentage

GET DO mg/L

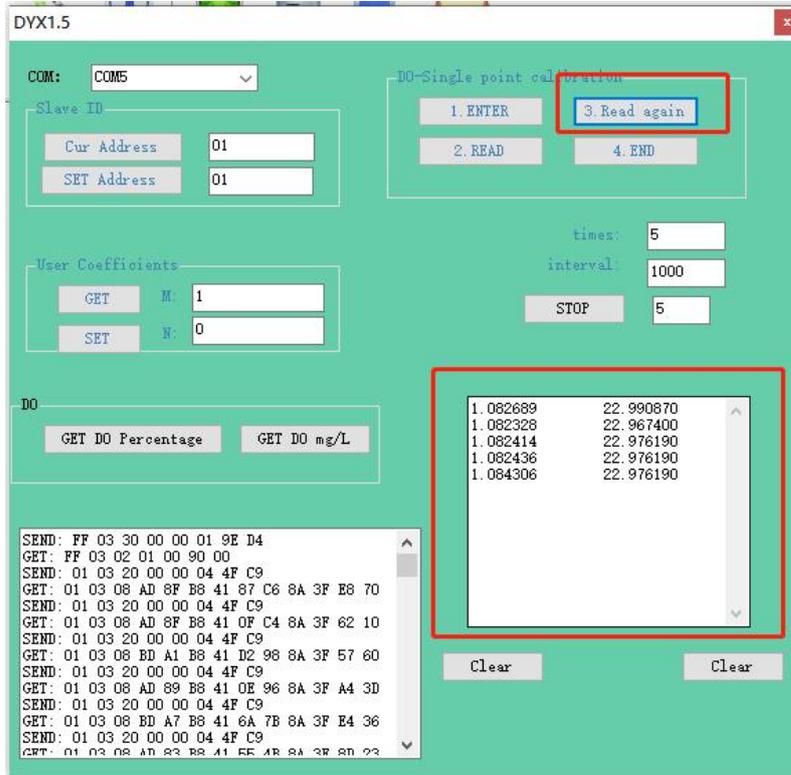
9.140091	
9.146438	
1.082838	22.999690
1.082285	22.996760
1.081400	23.002620
1.079129	22.985010
1.078532	22.985010
1.080516	23.002620
1.082837	22.979120
1.082967	22.990870
1.082825	23.005550
1.081014	23.011440

SEND: FF 03 30 00 00 01 9E D4
GET: FF 03 02 01 00 90 00
SEND: 01 03 20 00 00 04 4F C9
GET: 01 03 08 AD 8F B8 41 87 C6 8A 3F E8 70
SEND: 01 03 20 00 00 04 4F C9
GET: 01 03 08 AD 8F B8 41 0F C4 8A 3F 62 10
SEND: 01 03 20 00 00 04 4F C9
GET: 01 03 08 BD A1 B8 41 D2 98 8A 3F 57 60
SEND: 01 03 20 00 00 04 4F C9
GET: 01 03 08 AD 89 B8 41 0E 96 8A 3F A4 3D
SEND: 01 03 20 00 00 04 4F C9
GET: 01 03 08 BD A7 B8 41 6A 7B 8A 3F E4 36
SEND: 01 03 20 00 00 04 4F C9
GET: 01 03 08 AD 83 B8 41 5E 4B 8A 3F 8D 23

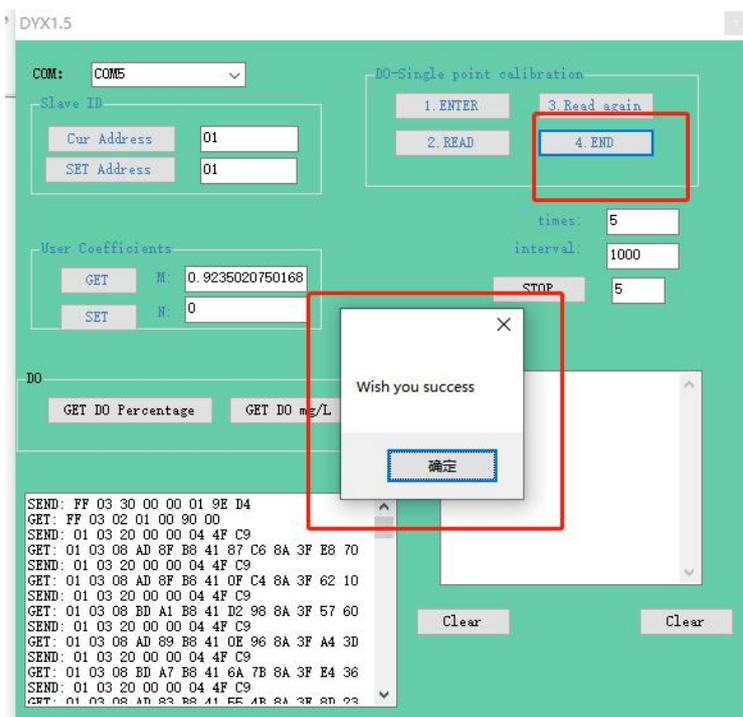


We will see this group of test data.

Step 5: Click the **3.READ** again



Step 6: Click the **4.END**



Calibration completed