

1. E08 ports description:



Determine whether the current main output protocol of E08 is RS485 or UART. According to the illustration below, connect the communication conversion box to the corresponding main interface. The illustration shows the UART output.

确定当前 E08 主输出协议是 RS485，还是 UART。根据下面的图示，在对应的主接口连接通讯转换盒。图示为 UART 输出。



No.	Wire color	UART O/P	RS485 O/P	IIC O/P	Switch O/P	Description
1	White	RX	B	SDA	RX	
2	Yellow	TX	A	SCL	TX	
3	Black	GND	GND	GND	GND	negative
4	Red	VCC	VCC	VCC	VCC	DC5~24V positive

2. Connect E08 to PC (via DYP Debug Assistants)

A. Measure distance through "Measurement Value" (data displayed directly).

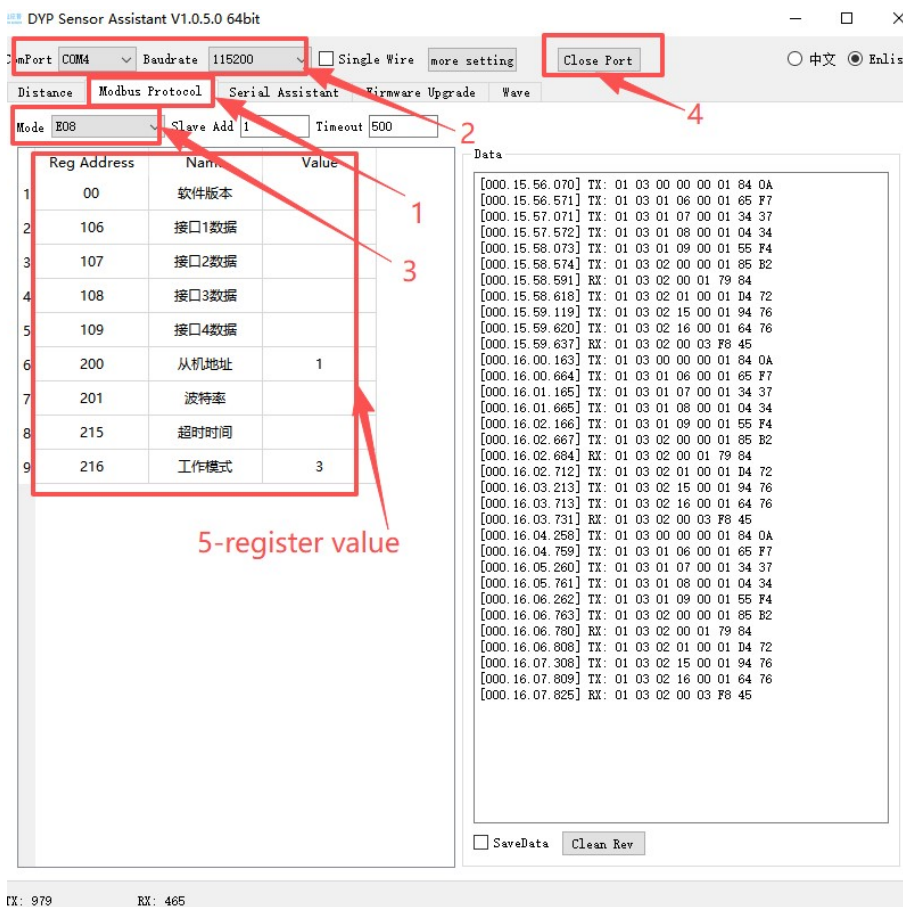
Note:

1. When no sensor is connected, all data will be FFFF (65535).
2. The default baudrate for all output ports of E08 is 9600. When connecting with ultrasonic sensors, ensure the baudrate is consistent.

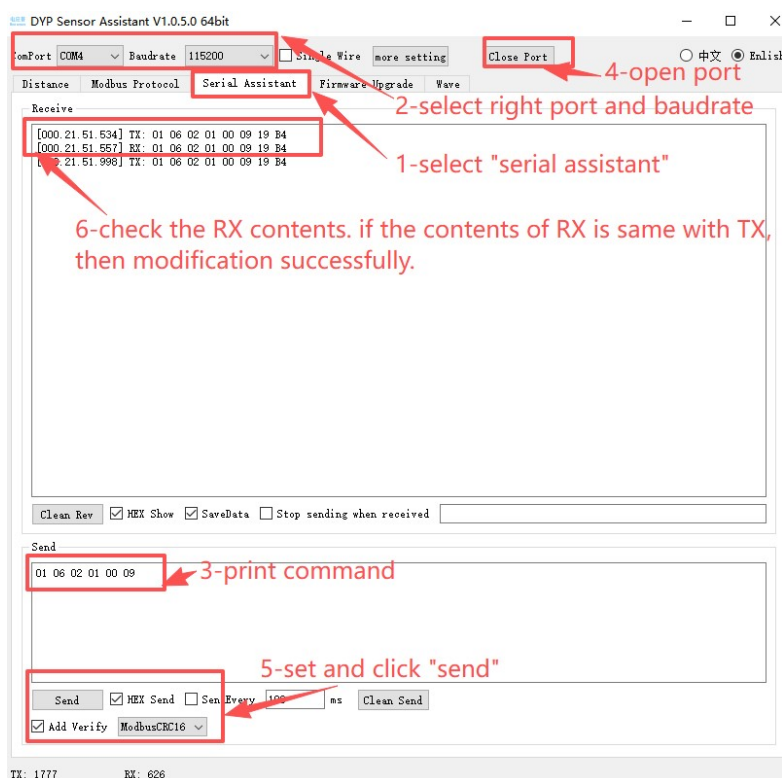
The screenshot shows the 'Distance' tab of the DYP Sensor Assistant. The 'ComPort' is set to COM4 and the 'Baudrate' is 115200. A 'Set' dialog box is open, with 'Four in one cts' selected for the protocol. The main window displays four rows of data: '1: 99', '2: 65', '3: 65', and '4: 65535'. The right-hand pane shows a log of TX and RX data, with '00 44' highlighted in the RX column. Red annotations include: '1-select "Distance"', '2-select right port and baudrate', '3-click "set"', '4-select "four in one"', '5-click "OK"', and '6-open port'. A blue box labeled 'UART output' points to the data log.

The screenshot shows the 'Distance' tab of the DYP Sensor Assistant. The 'ComPort' is set to COM4 and the 'Baudrate' is 115200. A 'Set' dialog box is open, with 'custom' selected for the protocol. The 'Command' field contains '01 03 01 06 00 04'. The main window displays four rows of data: '1: 99', '2: 65', '3: 65', and '4: 65535'. The right-hand pane shows a log of TX and RX data, with '01 03 01 06 00 04 A5 F4' highlighted in the TX column. Red annotations include: '1-select "Distance"', '2-select right port and baudrate', '3-click "set"', '4-select "custom"', and '5- finishing setting and click "OK"'. A blue box labeled 'RS485 output' points to the data log.

B. Distance measurement is carried out via the "Modbus protocol" (it can read data from multiple registers). Only suitable for outputs that support the Modbus protocol).



3. E08 Parameter Modification (If sensor parameters are to be changed, the sensor and communication device must be directly connected for the modification.)



The above is the modification of the main output baud rate of E08 to 115200. The modification of other parameters follows the same procedure. The instructions are as follows.

Modify slave device address

Master: 01 06 02 00 00 05 48 71

Slave: 01 06 02 00 00 05 48 71

Explanation: The sensor address has been changed from 0x01 to 0x05.

Change the working mode to the automatic mode.

Master: 01 06 02 02 00 01 E8 72

Slave: 01 06 02 02 00 01 E8 72

Explanation: The working mode has been modified to 0x0001, which represents the automatic working mode (applicable only in the UART output and switch quantity output modes).

Change the working mode to the controlled mode.

Master: 01 06 02 02 00 00 29 B2

Slave: 01 06 02 02 00 00 29 B2

Explanation: The working mode has been modified to 0x0000, which represents the controlled working mode (applicable only in the UART output and switch quantity output modes).

For more parameter modification instructions, please refer to the product specification sheet.

1. Using the normal test data of E08, the baud rate of the E08 interface and the corresponding sensor must be the same. The modification method is as follows.

A. The corresponding baud rates must be consistent. The main output (UART/RS485 port) and the baud rate of the host computer must be the same. The corresponding output ports of E08 (ports 1-4) and the baud rate of the connected ultrasonic sensor must be the same.

B. If the sensor A22 is 115200, now the baud rate of E08 output 1-4 needs to be modified to 115200 (or the baud rate of A22 needs to be modified to 9600) to ensure a normal connection between A22 and E08. At the same time, ensure that the baud rate of the debugging assistant is consistent with the main output of E08, so as to ensure normal communication between E08 and the PC.

Note: Ports 1-4 of E08 can only be connected to UART communication ultrasonic sensors.

Read-write	0x0201	Baud rate	Unsigned int, 16bit	Serial port baud rate(default 115200), unit: bps, effective immediately after setting, baud rate corresponding to register value is as follows: 0x0002:4800, 0x0003:9600, 0x0004:14400, 0x0005:19200, 0x0006:38400, 0x0007:57600, 0x0008:76800, 0x0009:115200
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0201 is an instruction for changing the baud rate of the main output of E08. The default baud rate of E08 is 9600.

Change command: TX: 01 06 02 01 00 09 +16 bits CRC (change to 115200, The "01" at the beginning indicates the address.)

When the same content is received, it indicates that the modification has been successful. RX: 01 06 02 01 00 09 +16 bits CRC

E08 Main output baud rate query:

TX: 01 03 02 01 00 01 +16 bits CRC

RX: 01 03 02 01 +16 bits Baud rate code +16 bits CRC