

Prelocator Link management software guide

1. General

The software is used for pre-locator remotely controlling by tablet which could realize the remote pre-location, remote data storage, remote waveform printing and related location information recording.

2. On-line

The software adopts wireless Bluetooth communication technology,so the master station should be support Bluetooth communication or using the USB Bluetooth communication module which packed with devices.

2.1 PC set

2.1.1 PC Bluetooth connection

Use the Bluetooth function of the PC to do virtual serial ports. For details refer the appendix 1 in page 6.

2.1.2 External Bluetooth adapter connection

Insert the USB Bluetooth communication module into the tablet computer. For the first time using, the driver file is needed to be installed (the Bluetooth module has been set before delivery, do not reset it).

After the driver is correctly installed, open the device manager of the computer, as shown in Figure 2-1, and confirm the number of the Bluetooth virtual serial port for future use.

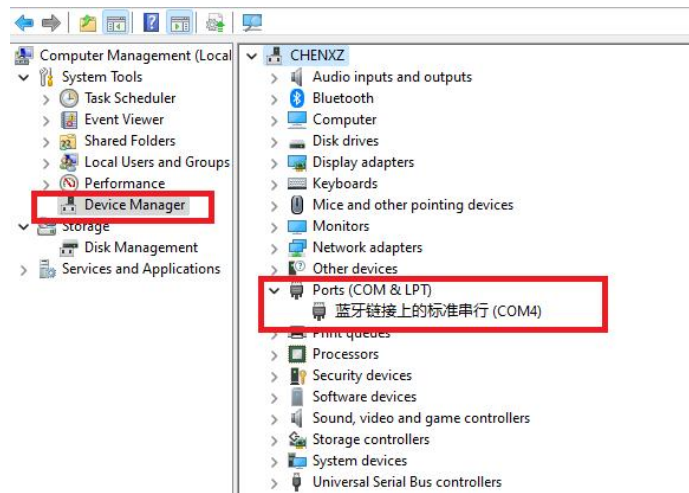


Fig.2-1

2.2 On-line

2.2.1 After successful Bluetooth configuration, open the on-line interface of Prelocator Link as below Fig.2-2

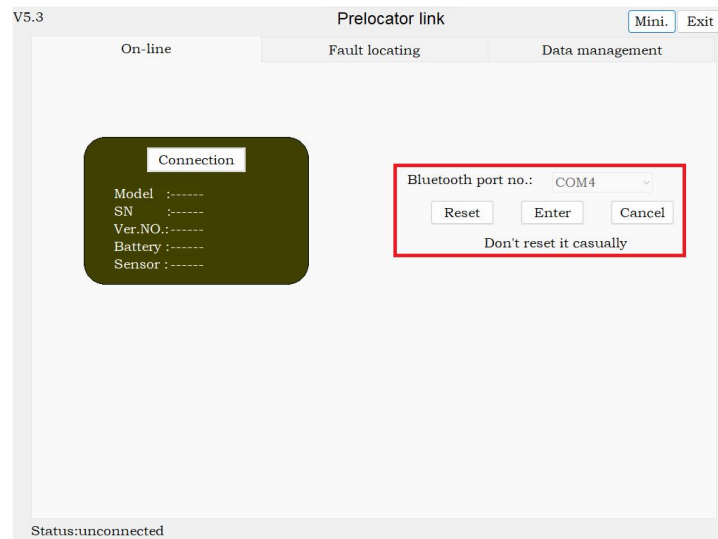


Fig.2-2

2.2.2 Click [Reset] to enable the modification of the Bluetooth serial port number, select the correct Bluetooth virtual serial port number (COM4 in Figure 2-2), and click [Enter] to save the configuration.

2.2.3 Click [Connection] and wait for the connection to be succeed, and then will display the device information.

Note: If the connection is failure, please refer the Bluetooth Connection Port information section in the appendix to check whether the port information is correct.

3. Fault locating

Select the fault location interface, it is easily to remotely control the prelocator (Fig. 3-1)

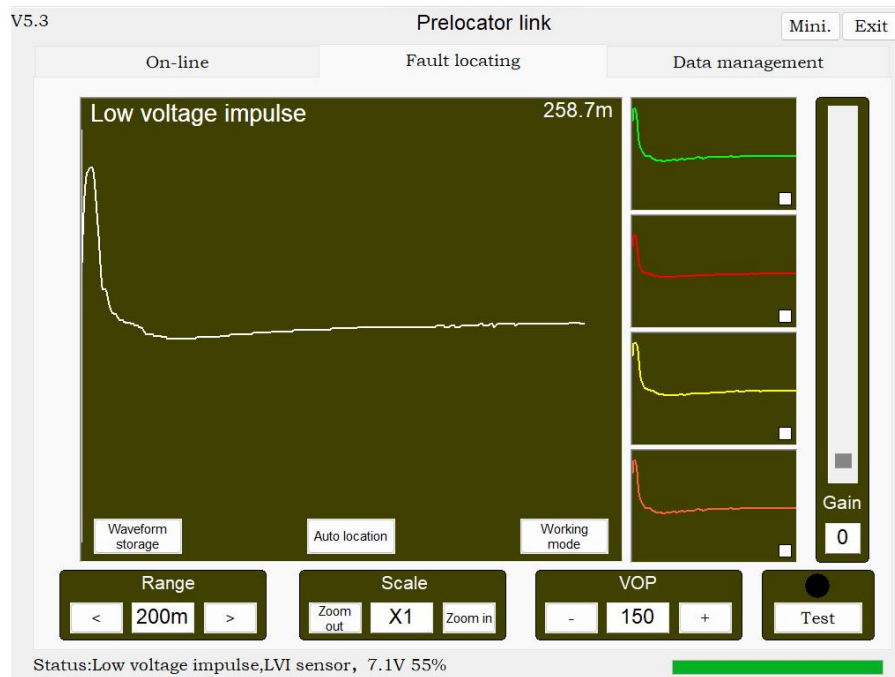


Fig.3-1

Under this interface,it is easily to do fault pre-location operation.

4. Data management

4.1 Software fault location processing interface, refer below Fig.4-1

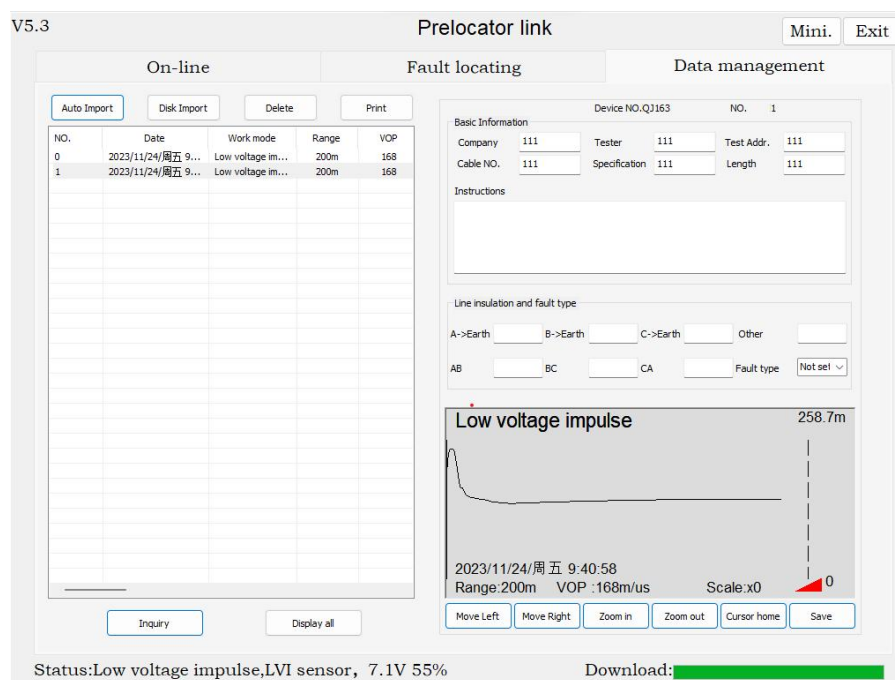


Fig.4-1

4.1.1 Button introduction:

【Auto Import】 The waveform data stored in the prelocator will be automatically imported into the database of the computer software.

【Disk Import】 Manually import waveform data into the software's database.

【Delete】 Delete the selected waveform records. Support delete only one record at a time.

【Print】 Save the recording information display window as a picture and open it as a pic.. Users can use the drawing software to print waveform information.

【Inquiry】 Query the required records from the database. Refer the Fig. 4-2

【Display all】 Display all the waveform.

【Left move】 Move the waveform to left

【Right move】 Move the waveform to right

【Zoom in】 Enlarge the waveform

【Zoom out】 Reduce the waveform

【Cursor home】 Reposition the moved cursor

【Save】 Reposition the moved cursor

4.1.2 Data inquiry

Click the Inquiry button to display the inquiry window as below Fig.4-2

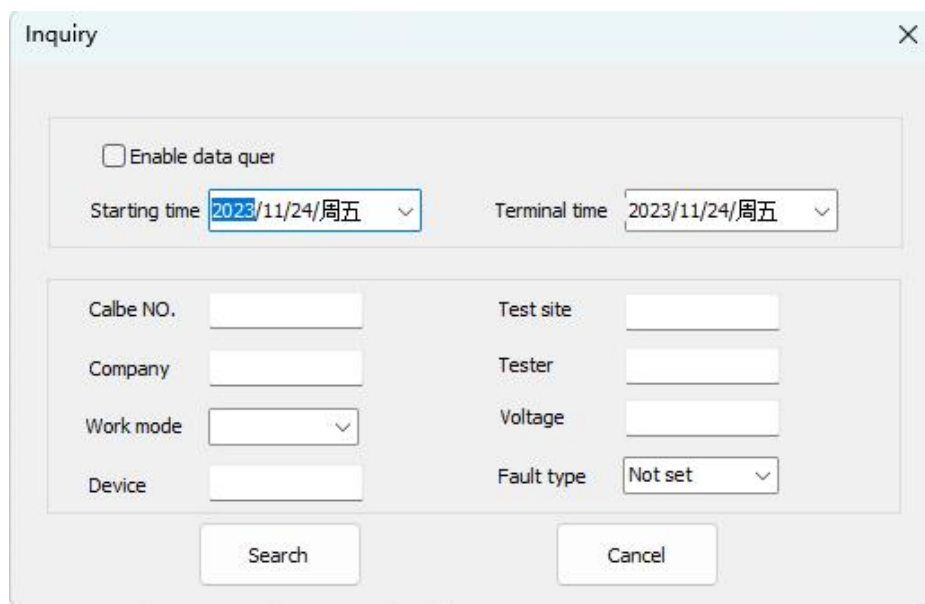


Fig.4-2

4.2 Operation

4.2.1 Waveform data import:

Use Auto Import to import waveform data saved in prelocator. Or use Import from Disk to import a USB flash drive or a waveform file stored in PC.

4.2.2 Waveform details checking

In the waveform information preview window, double-click the record to view, and the waveform will be displayed in details.

4.2.3 Save

After opening the record information, fill in the company, person, location position...After fill above information, single click **【Save】** to save these information in the waveform record.

4.2.4 Delete

In the waveform preview window, single click to select the waveform to be deleted, and click [Delete] to delete the waveform.

Note: Deleted waveform cannot be recovered.

4.2.5 Print

Click the Print button, display the content of recorded information in the form of pictures in the drawing software. Refer below Fig.4-3

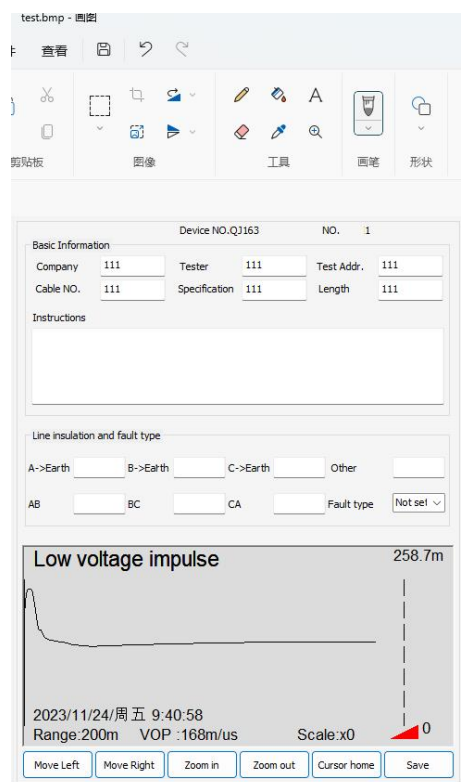


Fig.4-3

APPENDIX 1 ON-LINE CONNECTION OPERATION

1. Method 1: Bluetooth virtual serial port

1.1 Take the Win10 system as an example, click the taskbar, right-click the Bluetooth icon and select open Bluetooth Settings option. Fig. 1 (If Bluetooth Settings are not turned on, search for Bluetooth in the search bar)

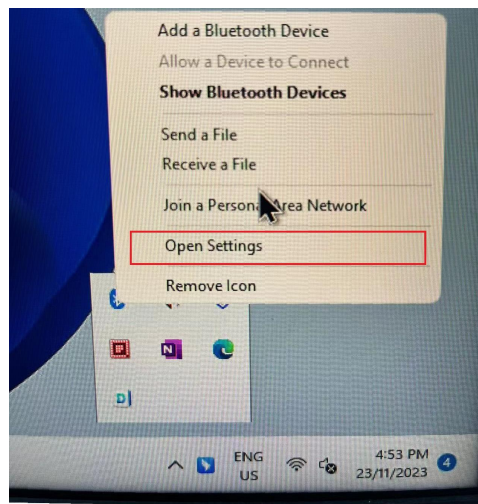


Fig.1

1.2 After Bluetooth is turned on on the PC to get more Bluetooth options in Bluetooth Settings to set the visibility of the terminal to the device. Fig. 2:

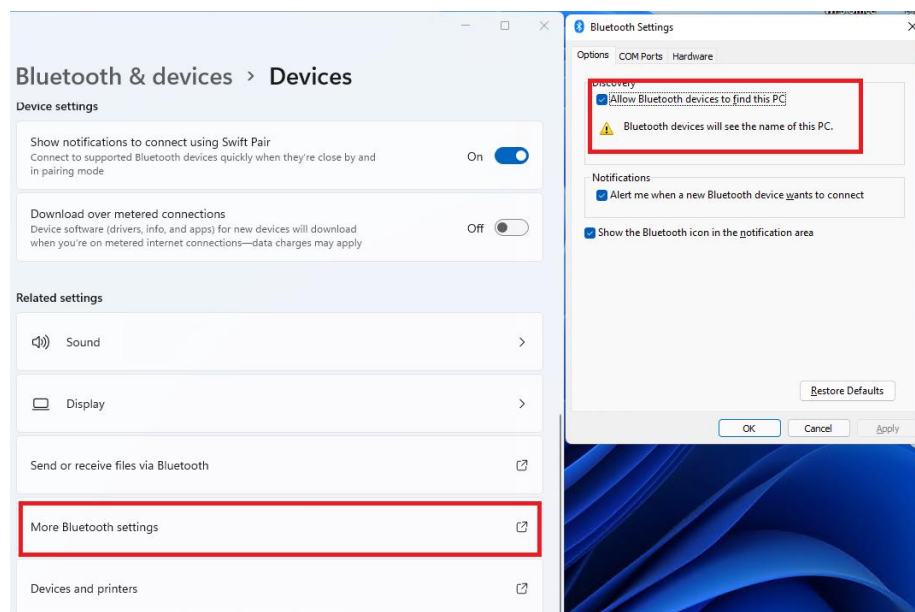


Fig.2

Note: Do not add Bluetooth or other devices!

1.3 Open more Bluetooth options, select Outgoing (computer boot connection) COM port and add. Fig. 3

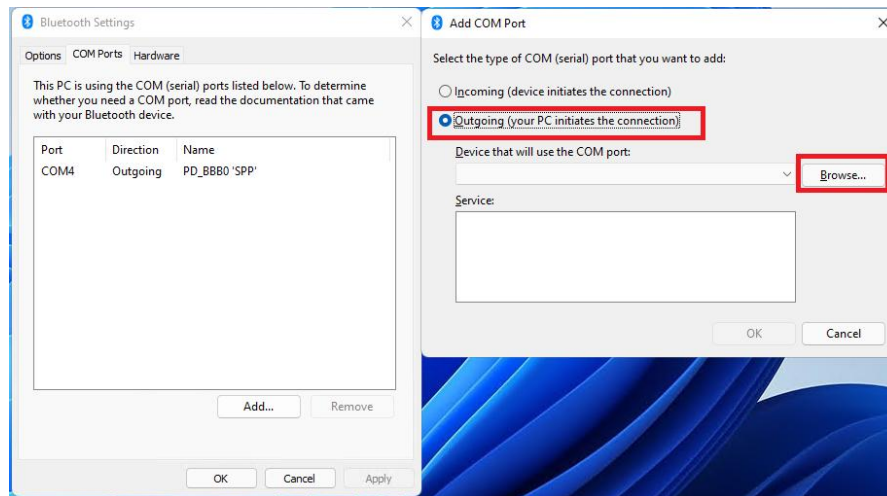


Fig.3

1.4 On the Add page, add required devices based on the device information. The device name is the factory ID. Fig. 4

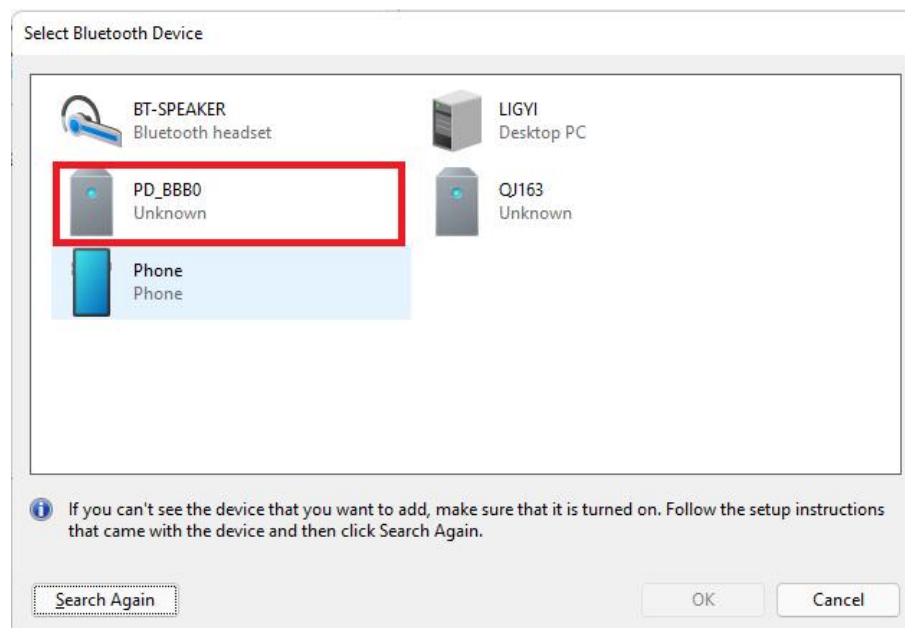


Fig.4

1.5 After the device is selected, port direction and name will be automatically configured based on the protocol. SPP indicates the Bluetooth transmission protocol supported by the port. Fig. 5

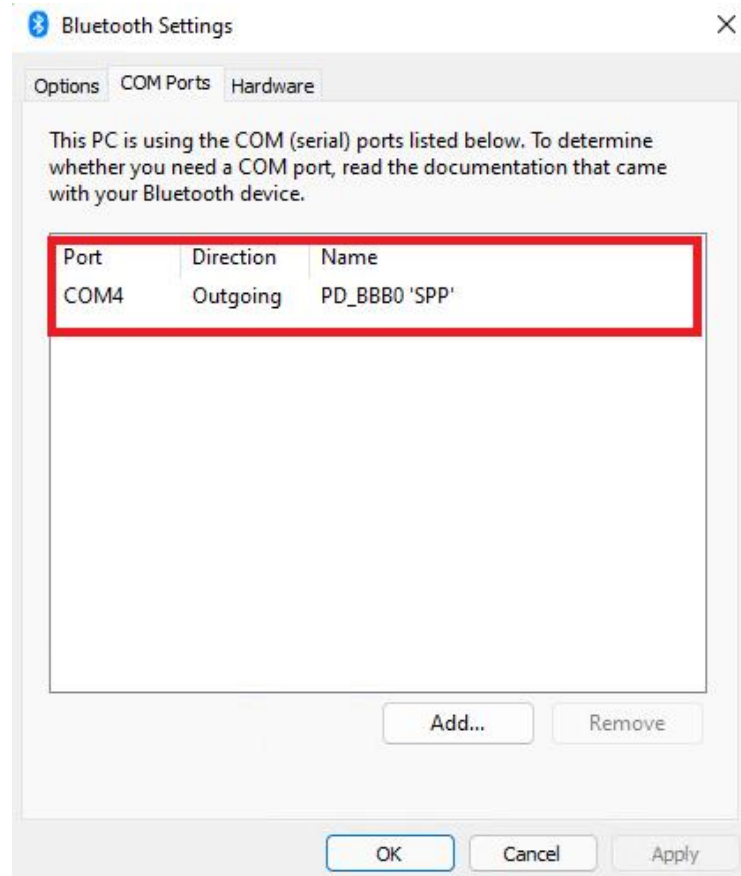


Fig.5

1.6 After the Bluetooth virtual port is added, open device manager of computer, port options can be confirmed, and port settings are performed fig. 6

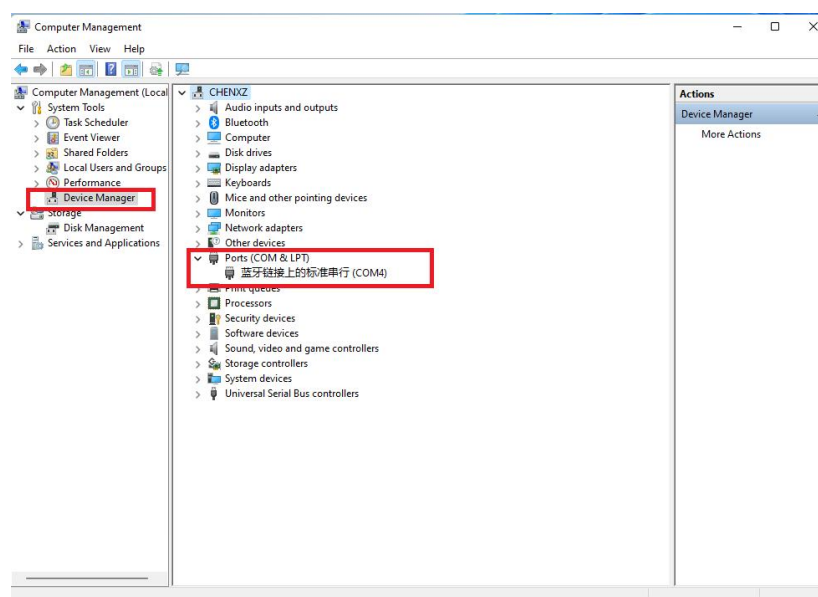


Fig.6

1.7 Double-click the created virtual port, adjust the specific port Settings, depending on the actual conditions of the device. Fig. 7 shows the required configuration of the device.

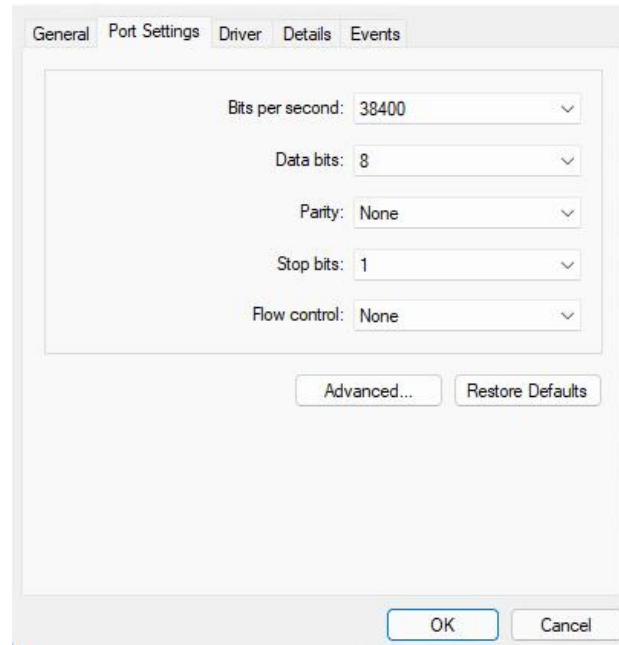


Fig.7

1.8 According to the preceding process, you can add virtual serial ports for multiple devices and configure them accordingly.

Attention:When the first connection is used, the system will prompt you to add a device in the message bar (Fig. 8), click to enter:



And ask for a pairing code (Fig. 9)^{Fig.8}

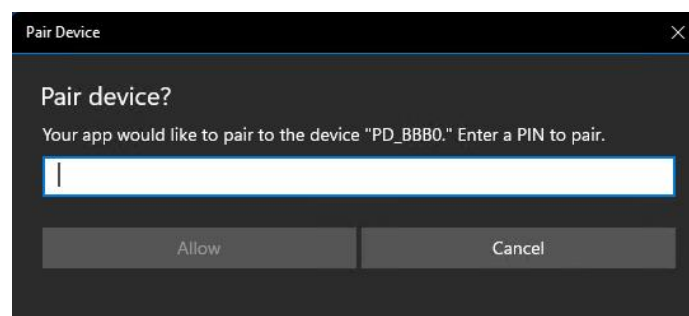


Fig.9

Enter the pairing code and click Allow. Device factory pairing code: 1234. The connection is successful. (Fig. 10)

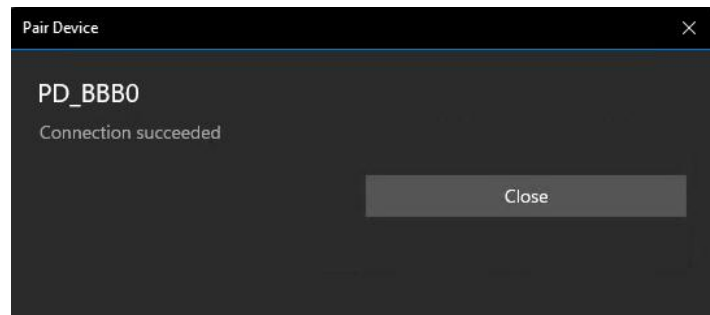


Fig.10

2. Method 2: External Bluetooth adapter connect

2.1 Continue to hold down the side key of the HC-05-USB module (Fig. 11) and insert it into the USB port of the PC. After stable insertion, the key can be released to force the module into the AT command mode.



Fig.11

2.2 Open the serial debugging assistant on the PC. UartAssist_v4.3.25 is recommended (Fig. 12).



Fig.12

2.3 Select the port: COMx #Silicon Labs CP210x USB to UART Bridge
(Fig.13)

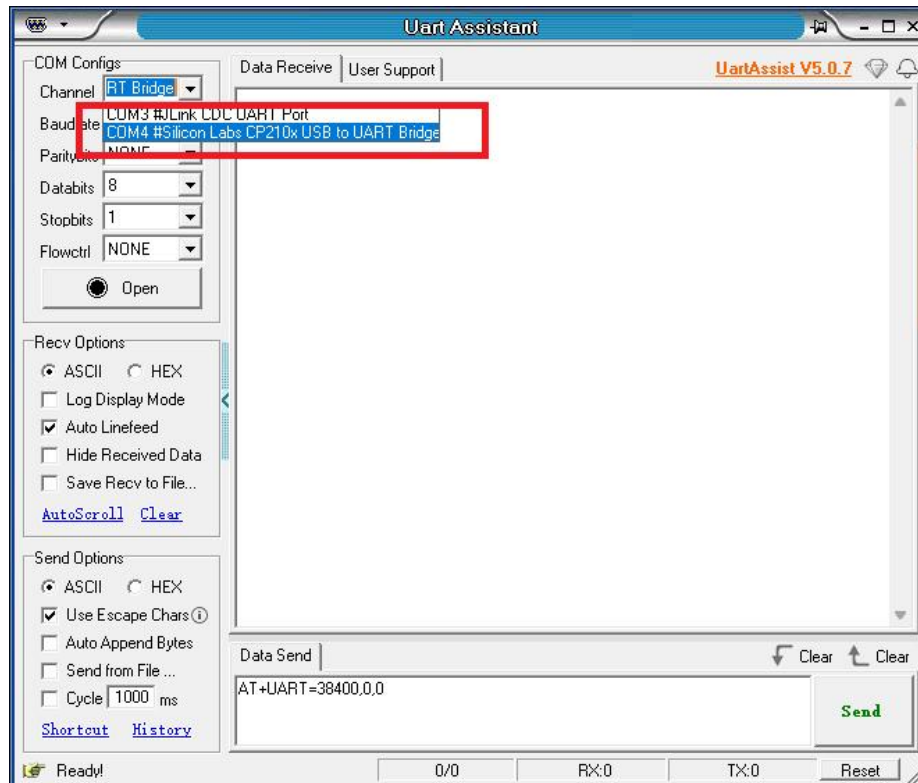


Fig.13

2.4 Select baud rate: 38400, others N, 8,1 (Fig. 14)

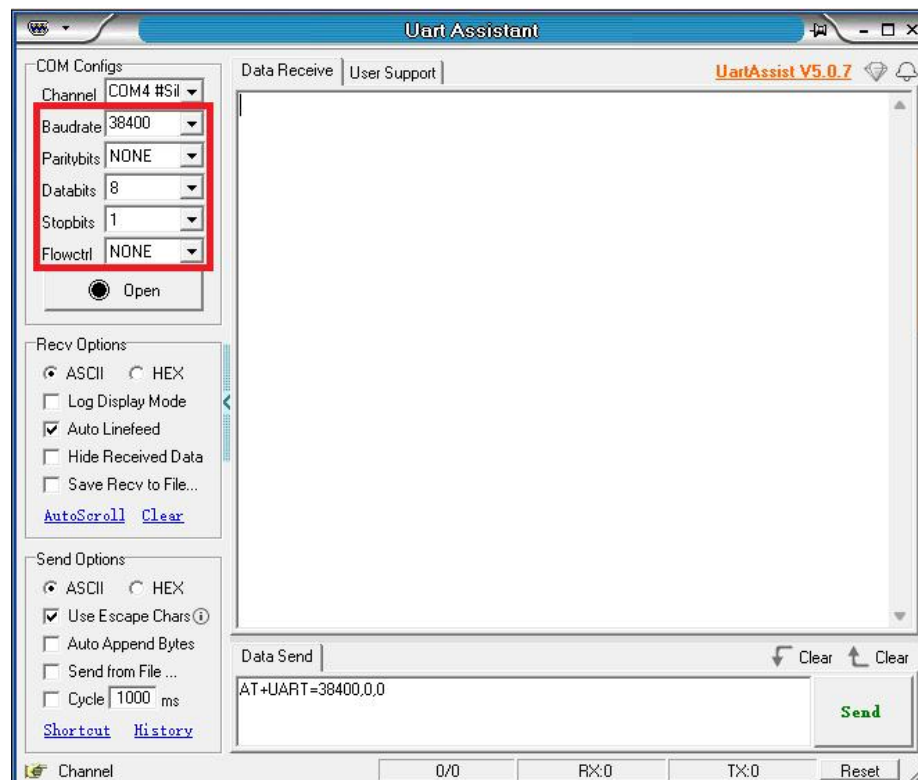


Fig.14

2.5 The other Settings are shown in Fig. 15. Some versions need to set additional bits, and the AT instruction automatically returns

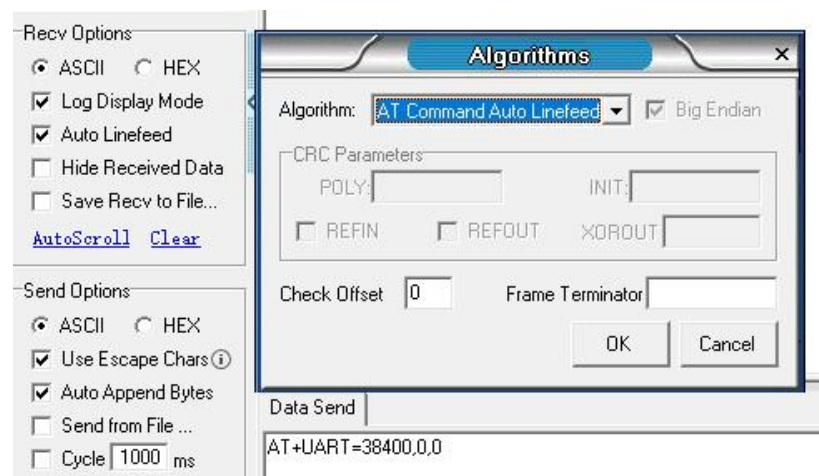


Fig.15

2.6 Open the port and send AT commands according to Table 1, as shown in Fig. 14

No	AT order	Command description
1	AT+ORGL	Restore to default
2	AT+ROLE=1	Set the main role
3	AT+CMODE=1	Specify Bluetooth address connection mode -- Automatic connection working mode
4	AT+PSWD=1234	Consistent with pairing module (pairing code)
5	AT+UART=38400,0,0	Set serial port communication parameters

After the transmission succeeds, close the serial port and pull out the module. Insert the adapter again without pressing a button. The remote service cable fault test system can then be used.