
How to Get 34401A Data through RS-232 Interface in BenchVue Software

Technical Support Knowledge Center Open

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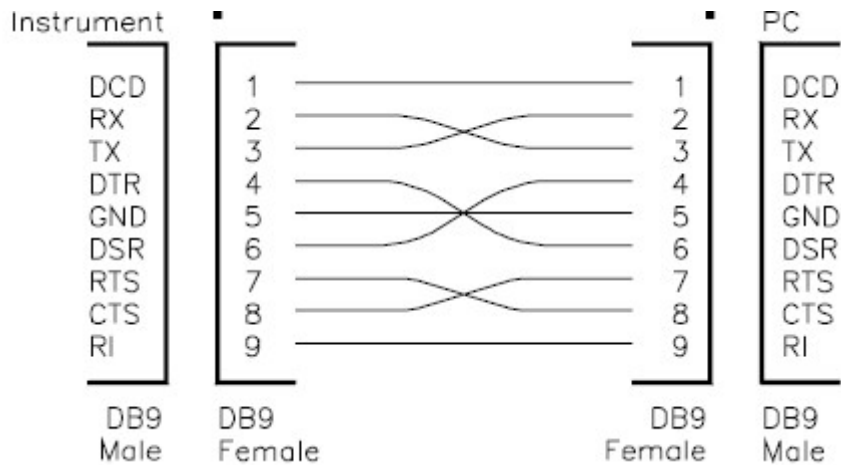
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Operational "How to" Guides

Summary

Introduce how to get 34401A data through the RS-232 interface in BenchVue software.

Description



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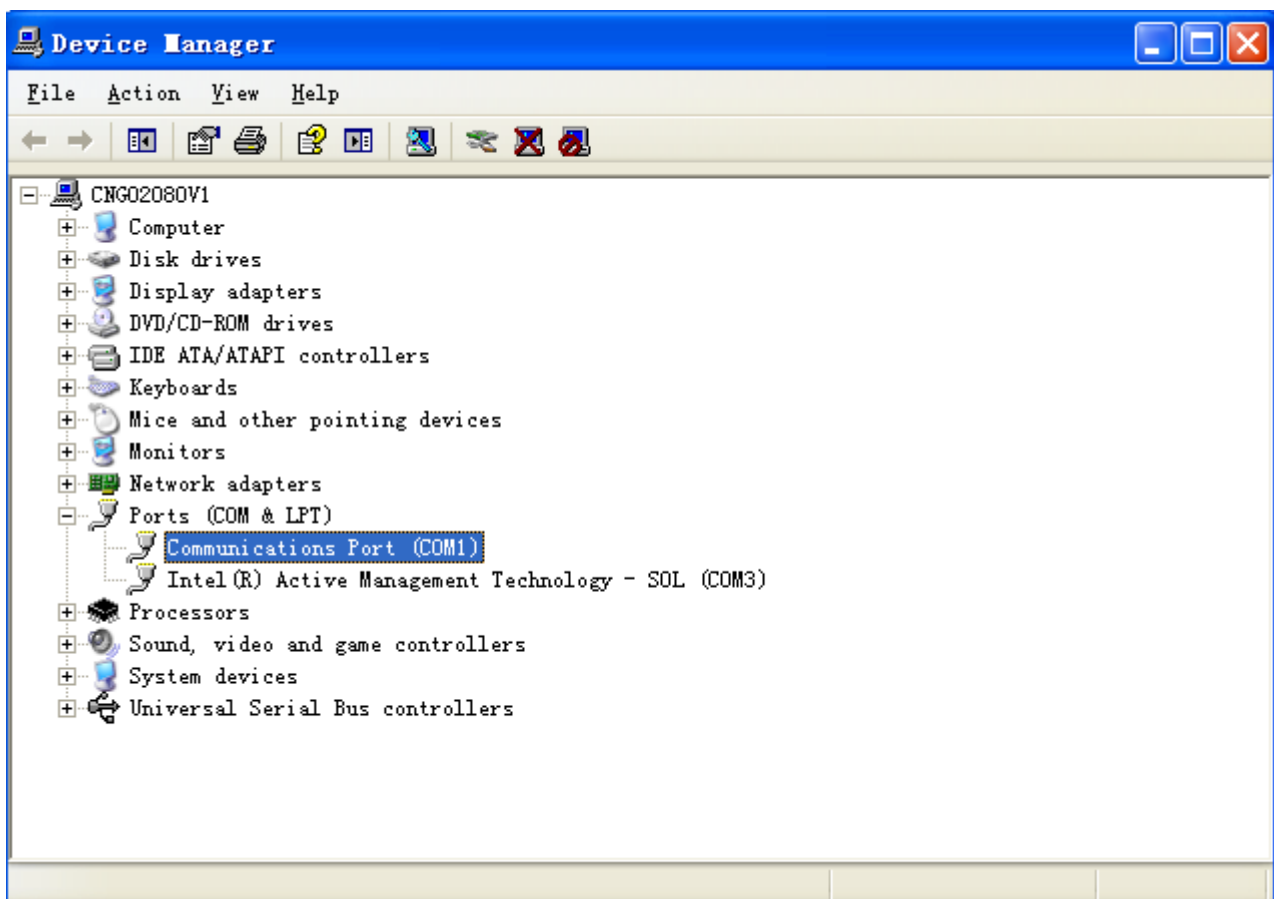
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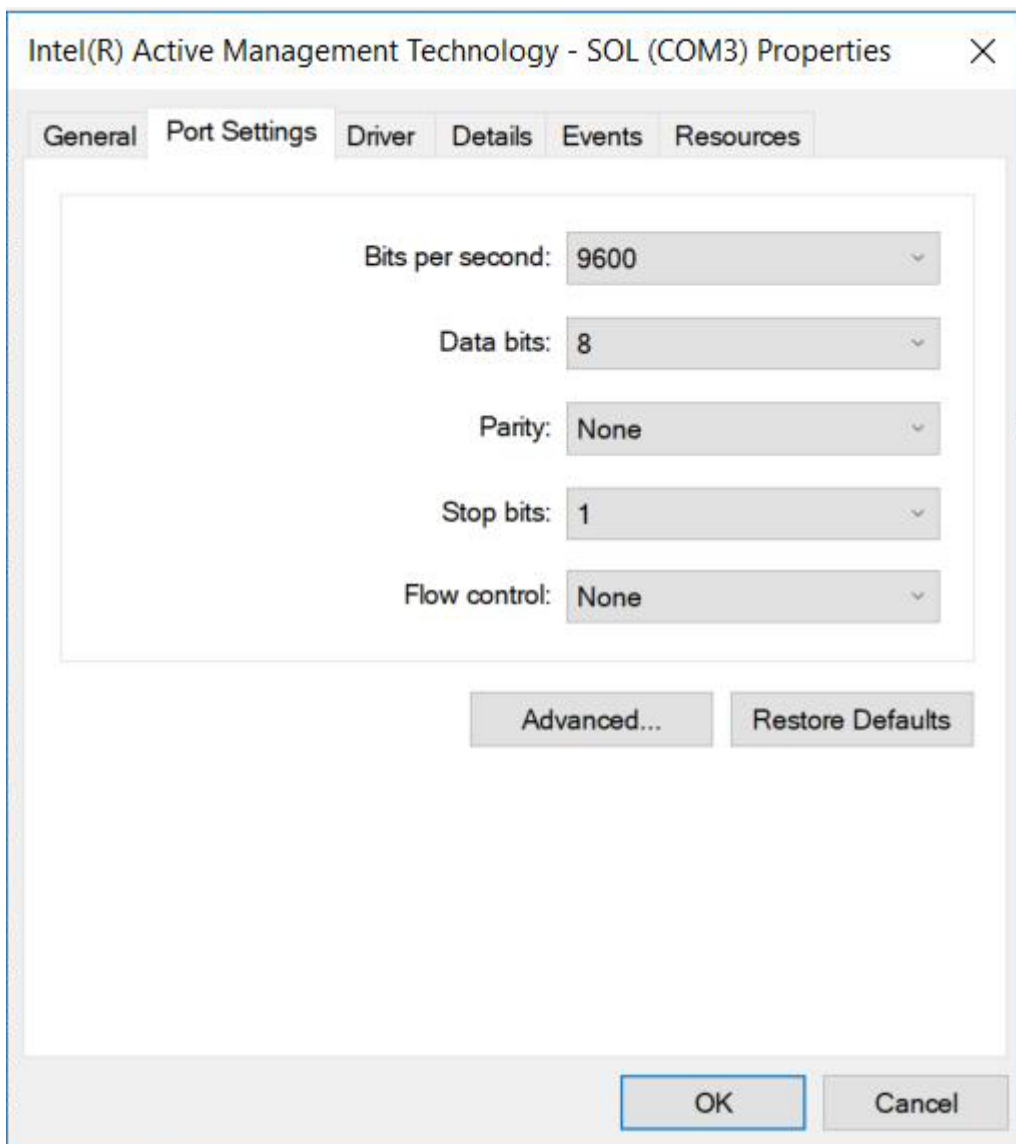
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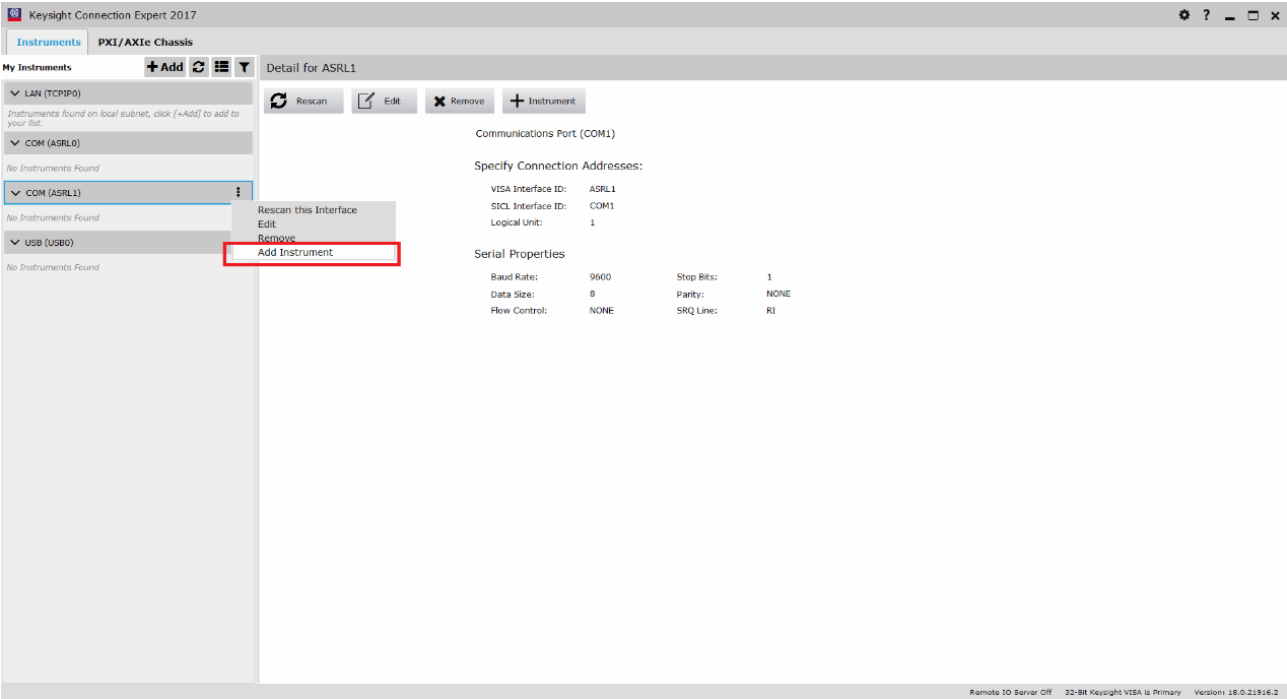
Auto/Man

ENTER





How to Get 34401A Data through RS-232 Interface in BenchVue Software



Add an RS-232 serial instrument

Communications Port (COM1)

Specify Connection Addresses:

VISA Interface ID:

ASRL1

SICL Interface ID:

COM1

Logical Unit:

1

Configure Serial Properties:

Baud Rate:

9600

Stop Bits:

1

Data Size:

8

Parity:

NONE

Flow Control:

NONE

SRQ Line:

RI

1

☒ Auto-Identify This Instrument

Verify Connection:

2

Test This VISA Address

ASRL1::INSTR

Verified

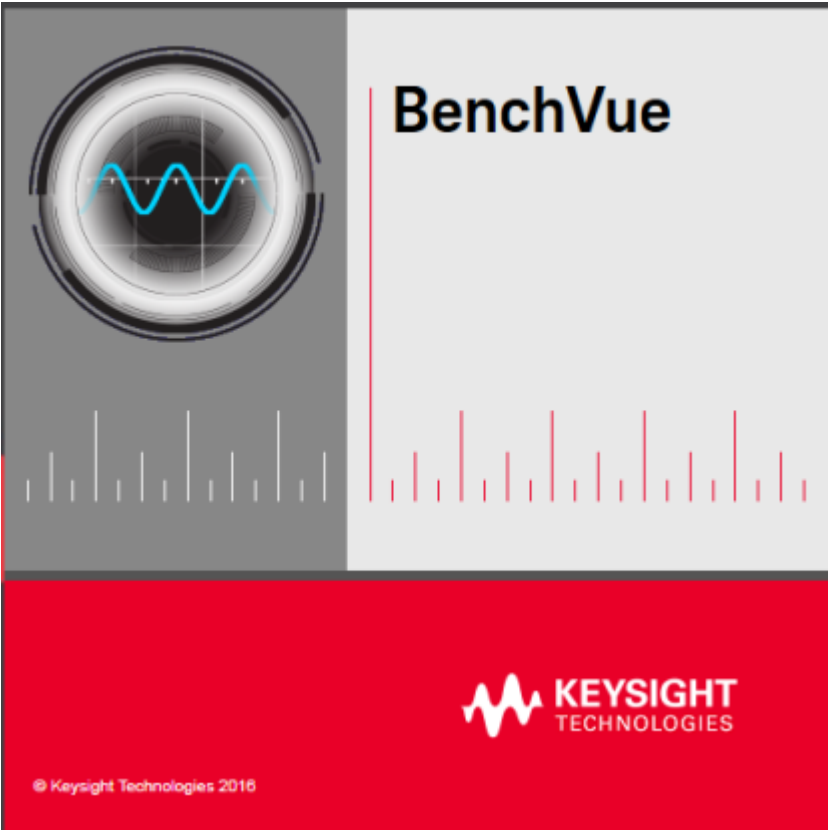
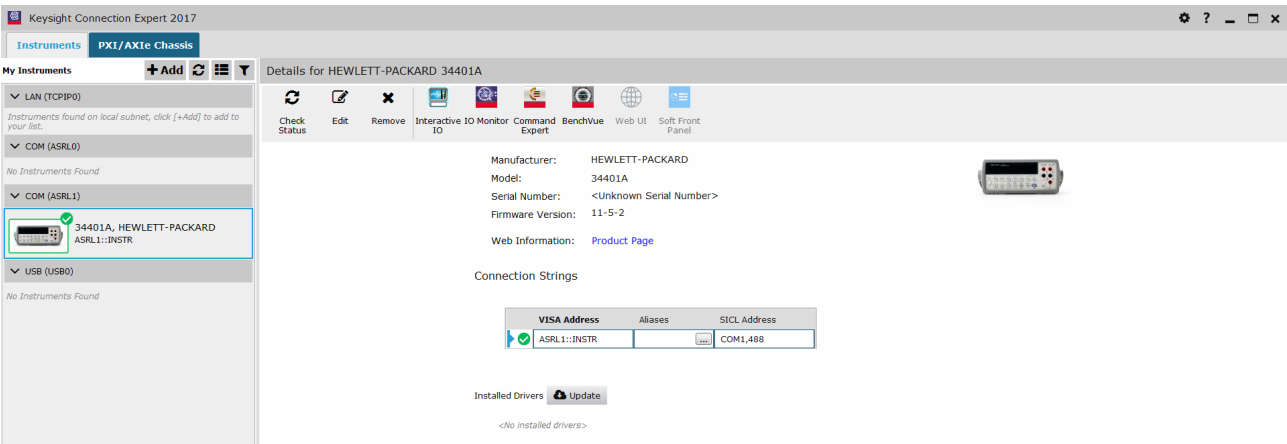
hewlett-packard,34401a,*asrl1::instr

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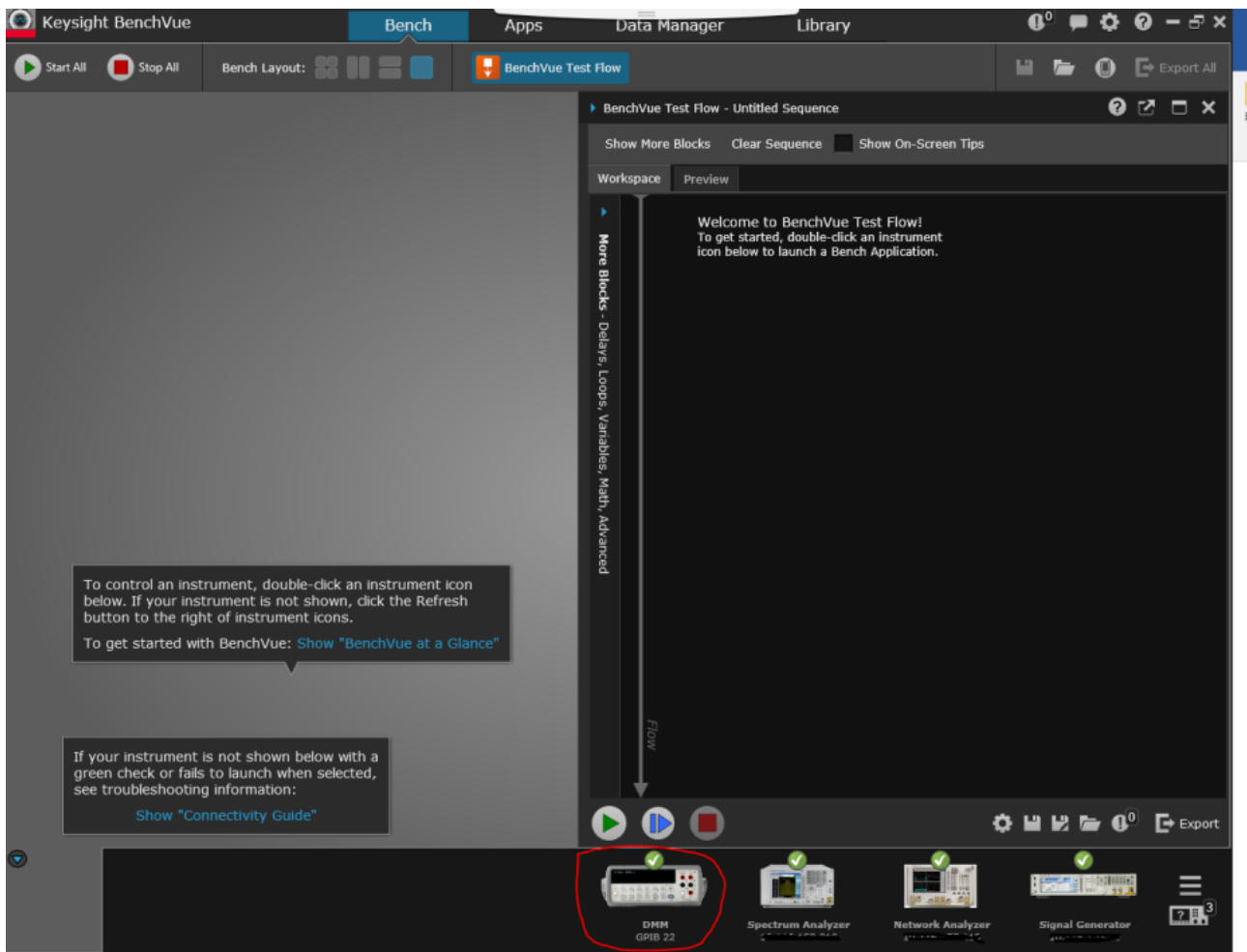
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Cancel

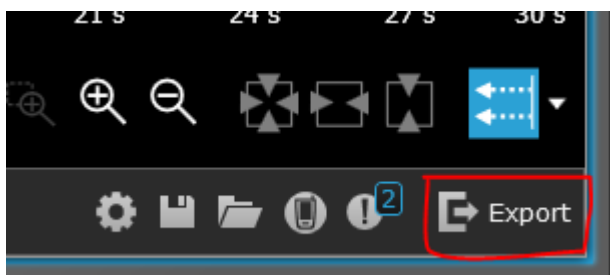
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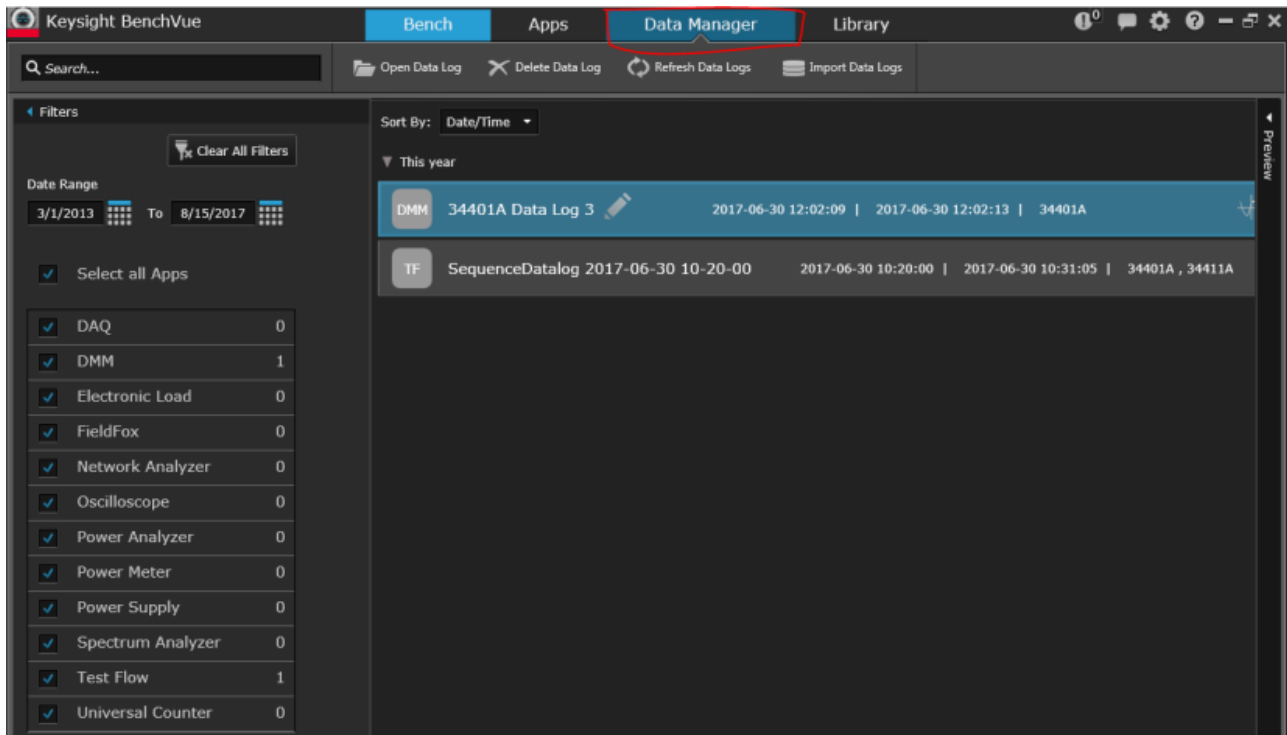
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How to Get 34401A Data through RS-232 Interface in BenchVue Software



How to Get 34401A Data through RS-232 Interface in BenchVue Software



The 34401A provides two communication interfaces, RS-232 and GPIB, to allow users to establish remote connections. How to get measurement data through the serial port in BenchVue software? The details will be described below.

- Before connection, three items are required.
 - 1) One RS-232 cable, the wiring method is as the following picture shows:
 - 2) Install IO Libraries Suite, download link: [3](#)
 - 3) Install BenchVue Software, download link: [2](#)
- Configure the 34401A and the PC separately.
 - 2.1 Configure 34401A RS-232 interface

Step1: Click the following buttons: you will see

Step2: Click button until you see E: I/O MENU

Step2: Click button until you see E: I/O MENU

Step3: Click button until you see 1 : GPIB ADDR

Step4: Click button until you see 2 : INTERFACE

Step5: Click button and choose RS-232 interface

Step6: Click button, back to the upper menu

Step7: Click button until you see BAUD RATE and choose 9600 BAUD

Step8: Click button, back to the upper menu

Step9: Click button until you see PARITY and choose NONE : 8 BITS

Step10: Click

- 2.2 Configure COM port on PC

Step1: Right-click on "My Computer" and select "Properties".

Step2: Click on "Hardware" and select "Device Manager".

Step3: Right-click on COM1, select "Properties", click "Port Settings", the parameters are as following:

3. Run IO Libraries Suite (take the IO 18.x version as an example)

Step1: Right-click the COM(ASRL1), select Add Instrument. Confirm that the serial port parameters in the software are the same as the 34401A. Check the Auto-Identify option, click 'Test This VISA Address' button. After receiving the Verified reply, Click the OK button.

Step2: If the connection is successful, you can see the 34401A in the Instrument tab, as shown in the following figure:

The above is the whole process that connecting the 34401A to the PC through an RS-232 cable.

4. Run BenchVue Software and start the acquisition.

- 4.1 Double click Keysight BenchVue logo

The interface is as shown below. Double-click the icon to start the DMM App.

- 4.2 Configure related parameters, including measurement type, range, file record parameters, and so on.

- 4.3 Click the Start button to start the acquisition. the current data can be exported through the export button after the acquisition is completed.

- 4.4 All data records can be viewed in the data manager.

