High Voltage Differential Probe DP Series Programming and Control Manual

1. Document Overview

This document outlines the fundamental programming and control methodology for DP-series differential probes via the Micsig CH340 communication interface, covering communication parameters, control commands, required accessories, and detailed operational procedures. By transmitting corresponding hexadecimal commands using the serial port debugging tool, users can perform functions such as range switching, bandwidth limitation configuration, automatic zero calibration, and device information queries.

2. Communication Parameters

Communication method: CH340

Baud rate: 115200

Data format: Hexadecimal (HEX) transmission

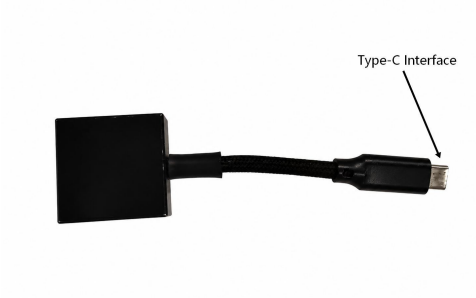
3. Programming control instructions

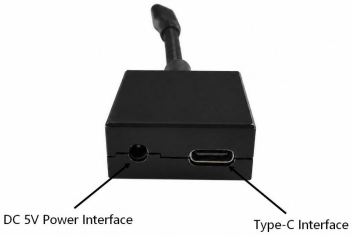
function	instruct (HEX)
Switch to the high range setting	AA080100F7
Switch to the low range setting	AA080101F6
Full Bandwidth Mode	AA1A0100E5
5 MHz bandwidth limit	AA1A0101E4
Automatic zero calibration	AA0900F7
Query SN	AA000000

4. Required Accessories

1) CH340 Data Converter and Its Charger

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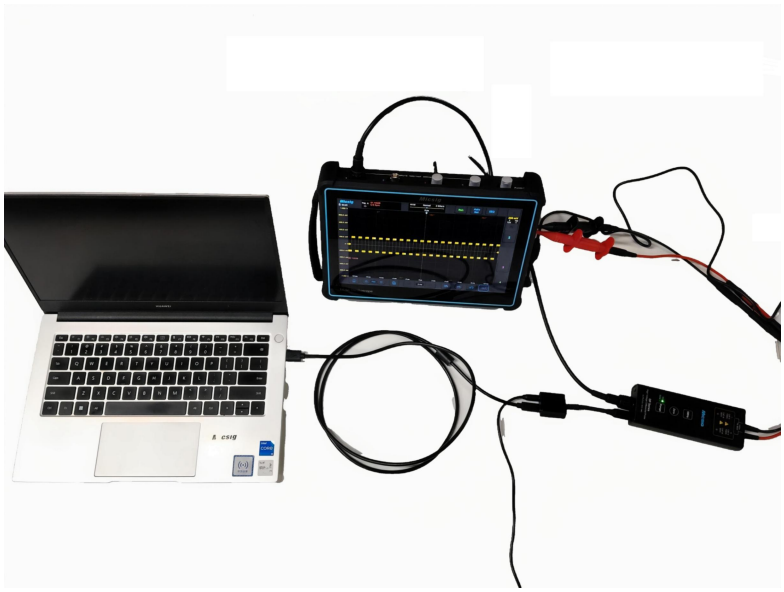


2) USB-Type-C data cable

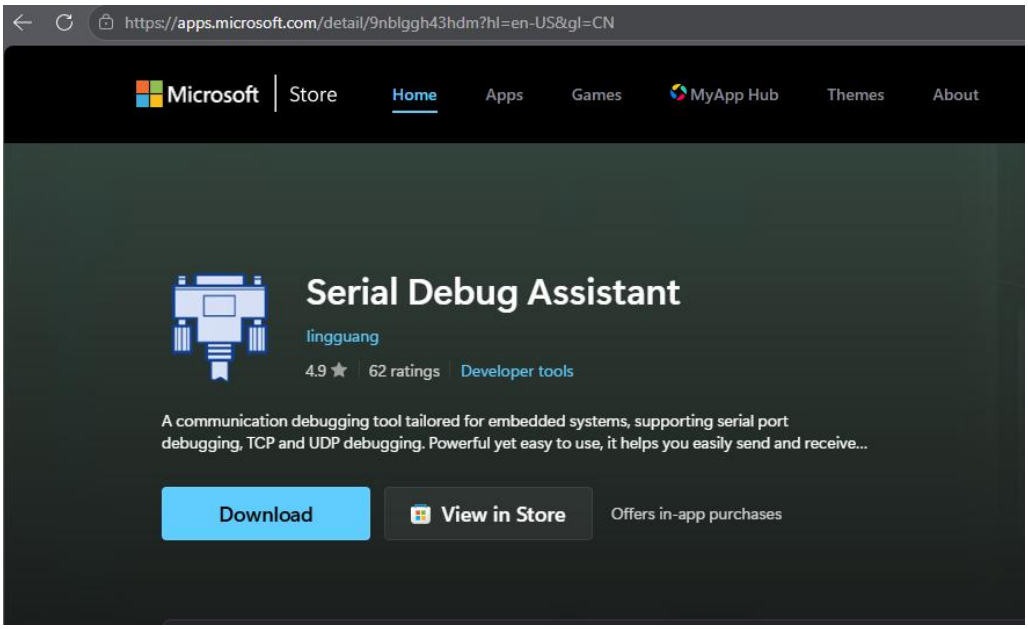


5. Control the operational workflow

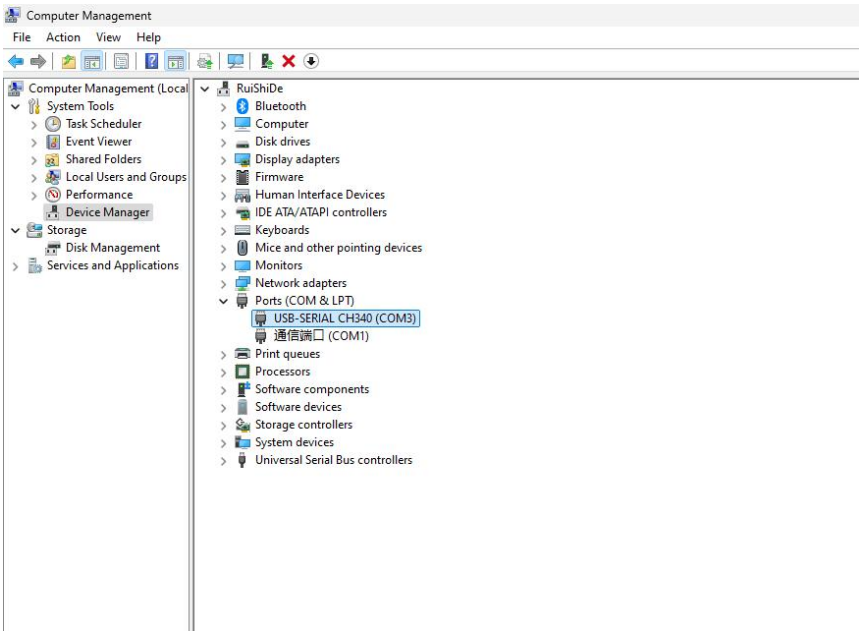
1) Please connect the DP probe using the CH340, and use the DC 5V charger. Connect the computer with a Type-C data cable for power supply, as shown in the figure below.



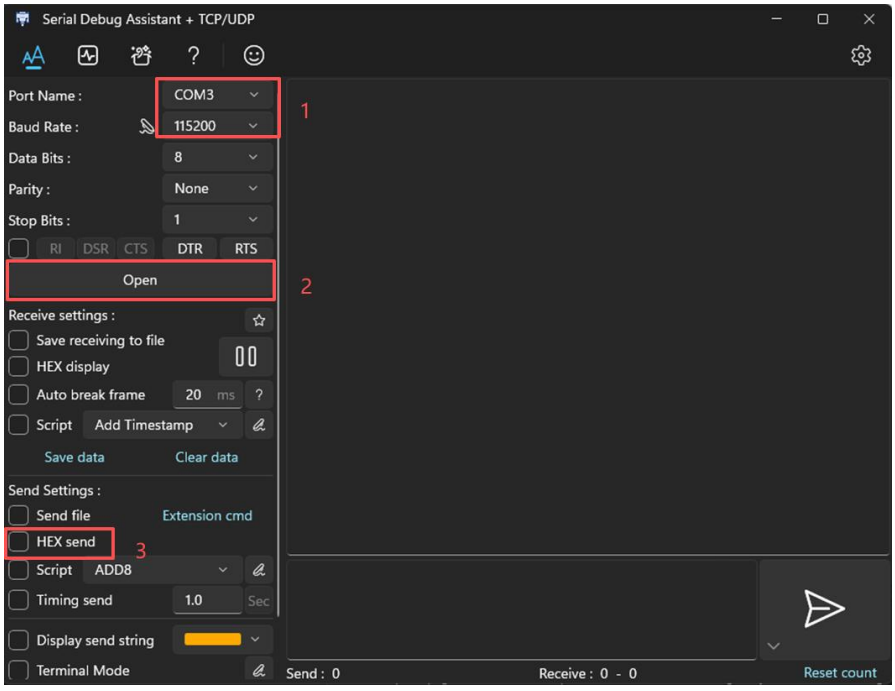
2）Download and install the serial port debugging assistant software.



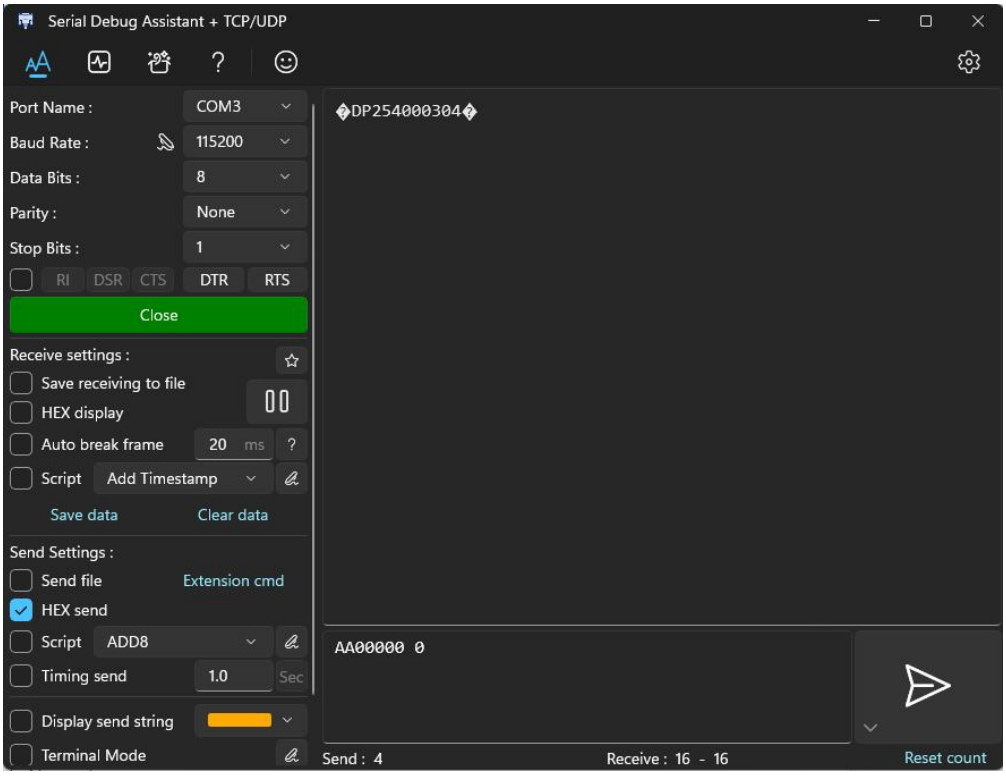
2）Open the Computer Device Manager and confirm the COM port number associated with the USB port.



3）Launch the serial port debugging assistant software, select the corresponding COM port in the serial port settings, set the baud rate to 115200, choose the hexadecimal (HEX) transmission mode, and establish the serial port connection.



4) Enter the corresponding control command in the send window and click Send to complete the probe's functional control.



7. Important Notes

1) Before connecting the device, ensure the power voltage meets the equipment requirements to prevent damage.

2) Ensure proper connection of the CH340 signal lines; otherwise, communication may fail.

3) The hexadecimal transmission mode must be used when sending control commands.

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