HOW TO CHANGE ADAPTER SETTINGS TO ACCESS THE WEB INTERFACE OF THE BIOPROTT™ FLOWMCP

1 Introduction

The BioProTT™ FlowMCP Series is part of our BioProTT™ Product Range and geared towards industrial applications.

Figure 1: BioProTT™ FlowMCP Series

To enable an easy and convenient setup and integration into your process environment, all devices within the BioProTT™ FlowMCP Series come with a web interface. In order to gain access to and use the web interface, however, you must adjust some of your computer settings.

Please note:
The steps in this TechNote describe the steps needed when using Windows 10.

⇨ If you have another operating system, or if you encounter any problems when adjusting your settings, please contact em-tec GmbH.

2 What Is the Calibration Factor?

To change your PC settings, follow these steps:

1. Open the Windows Settings and select “Network and Internet“.

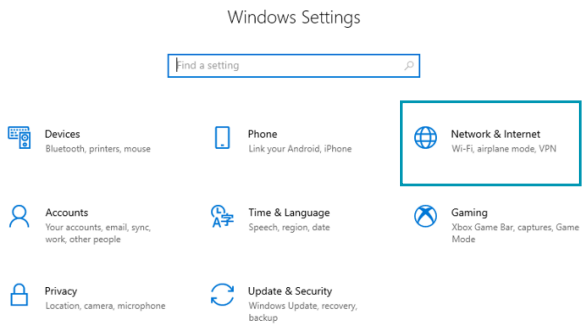

Figure 2: Open and select settings

2. Scroll down to “Advanced network settings“ and select “Change adapter settings“.

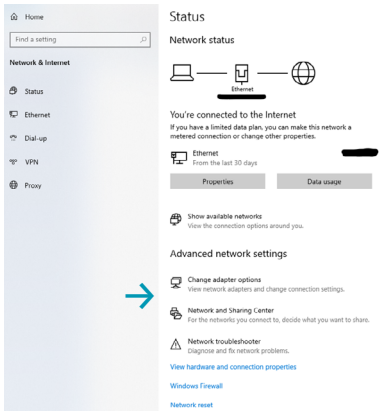

Figure 3: Change Adapter Settings

3. Right-click on the Ethernet field and select “properties“ in the dialog window.

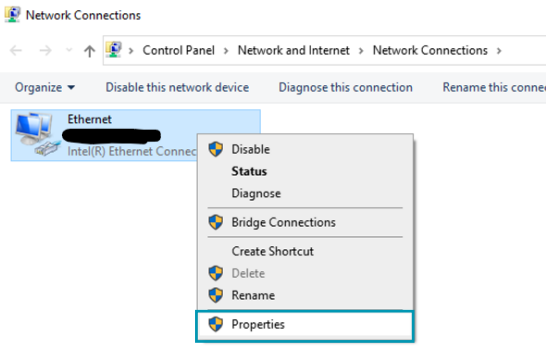

Figure 4: Ethernet: Select Properties

4. Choose the “Internet protocol, Version 4 (TCP/IPv4) and click “Properties“.

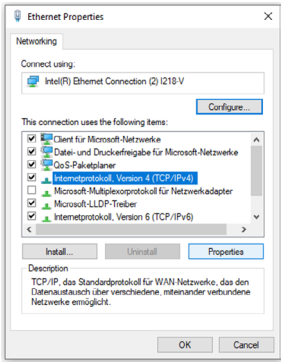

Figure 5: Choose Internet Protocol

5. Change the IP-Adress to an address within the same network as the BioProTT™ FlowMCP.

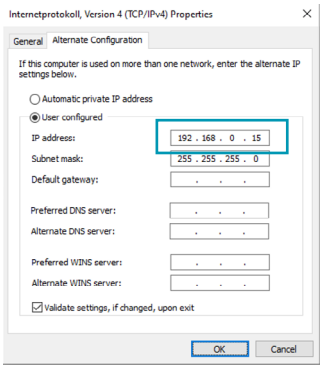

Figure 6: Change IP Address

Please note:
Do not change the IP address to the exact same address as the default IP Address of the BioProTT™ FlowMCP (192.168.0.12).

⇨ Instead, change it to e.g. 192.168.0.15.

⇨ Also: Do not change the subnet mask.

6. It is now possible to access the web interface in which the IP Adress of the BioProTT™ FlowMCP can be changed to an IP address of your network.

Please note:
Changing the IP to a random IP address might result in a loss of the connection and difficulties in finding the device again.

⇨ Make sure to change the IP address to an address that you know.

⇨ Make sure to note down the IP address entered into the web interface.

3 Methods to Determine the Calibration Factor

In the case that the IP address of the BioProTT™ FlowMCP is lost, however, there is an option to retrieve it and to regain access to the respective device.

To do so, the following equipment and software is needed:

- computer
- USB 2.0 to USB cable
- terminal program that can read RS-232 and 500 000 Baud (e.g. Putty, HTerm, etc.)

Then, to retrieve the IP address, follow these steps:

1. Connect the USB 2.0 port of the separately powered BioProTT™ FlowMCP to the computer using the USB 2.0 to USB cable.

⇨ If the BioProTT™ FlowMCP was not connected to the computer before and consequently not recognized as COMP-port, a few settings might have to be changed in the device manager. For this,

- open the device manager on your computer.
- Go to “Universal Serial Bus controllers“, then click “USB Serial Converter“.

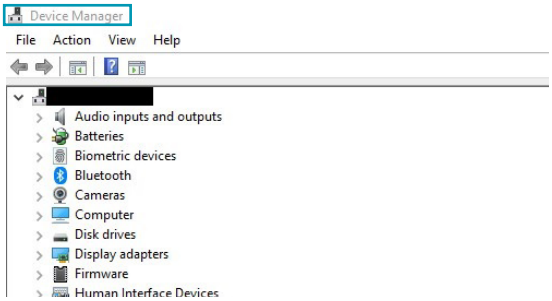

Figure 7: Device Manager

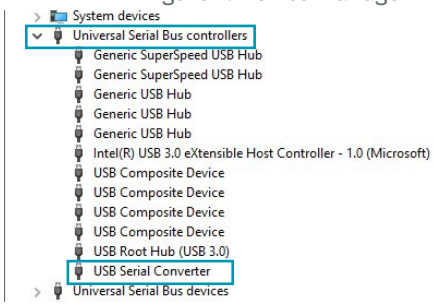

Figure 8: USB Serial Converter

2. Go to the register „Advanced“ and tick the box “Load VCP“. Then click “ok“.

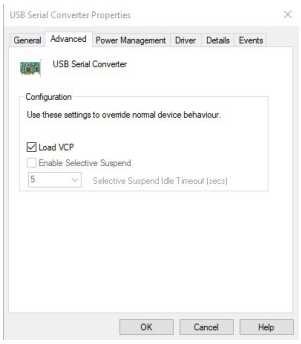

Figure 9: Register “Advanced“

3. Once the BioProTT™ FlowMCP is connected to the computer, a new COM-port will be visible.
   ⇨ Please check that the COM-port number is lower than 20.
   ⇨ If it is above 20, some terminal programs will be having difficulties connecting.
   ⇨ In this case, please change the number accordingly or contact your system administrator so that they can change the number.
4. Once the BioProTT™ FlowMCP is recognized as COM-port, the terminal program can be set up and the connection be established.
5. Ensure the correct settings for the terminal program, which are:

   - Baud: 500 000
   - Data: 8
   - Stop: 1
   - Parity: none

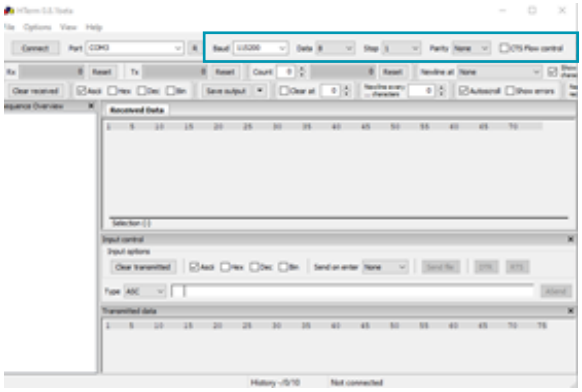

Figure 10: Correct Settings

6. To retrieve the IP address of the BioProTT™ FlowMCP, the power supply needs to be disrupted for around a second.
7. Once the BioProTT™ FlowMCP is powered again, different information will be displayed by the program, which might look the same, or similar, to the picture below:

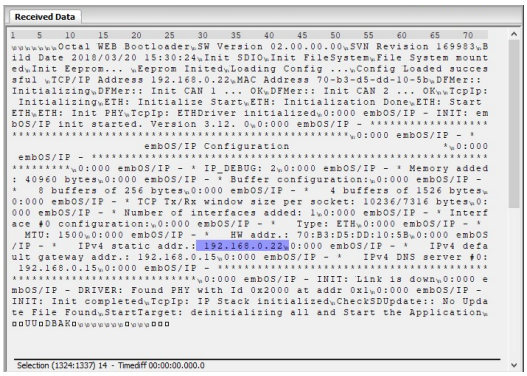

Figure 11: Received Data

   Here, the currently assigned IP address of the BioProTT™ FlowMCP is displayed as well.
   ⇨ This IP address can be used when accessing the web interface again.
   ⇨ Based on this information, the settings can be (re-) changed.

4 Contact

If there are any questions concerning the information in this document, or if you are having trouble at any point during the setup and installation of the BioProTT™ FlowMCP, please contact em-tec GmbH.

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