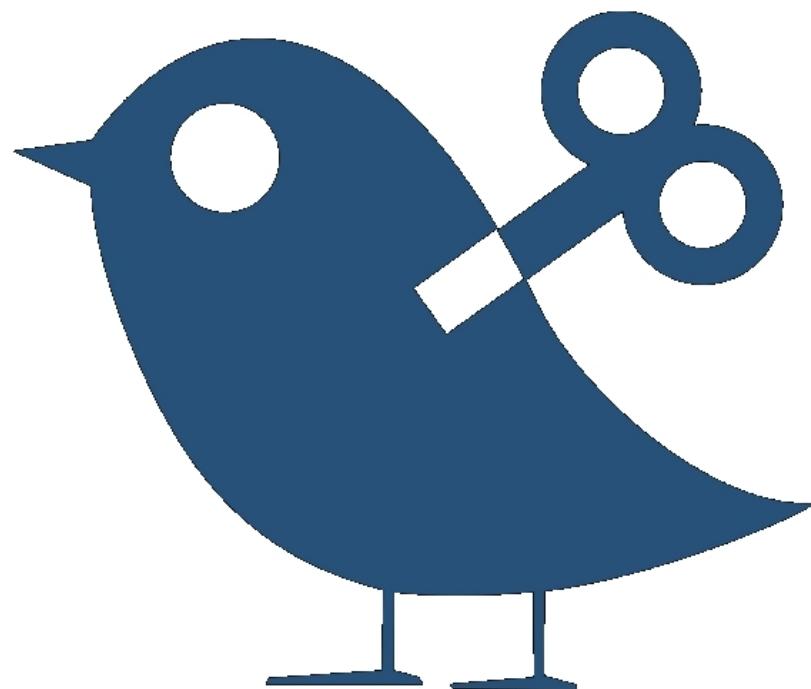




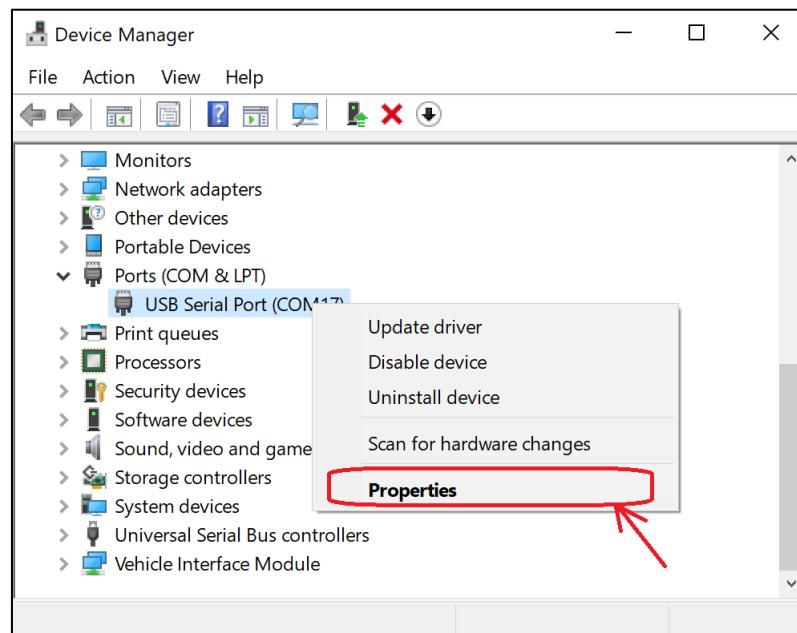
UAVOS servomotor studio

User manual

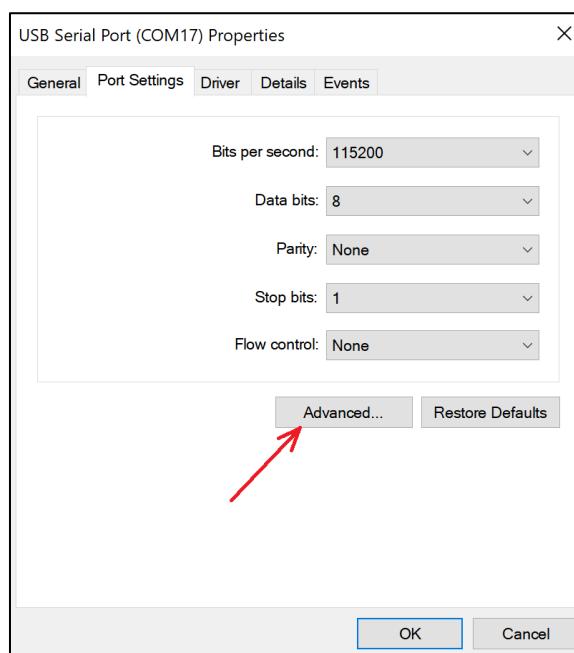


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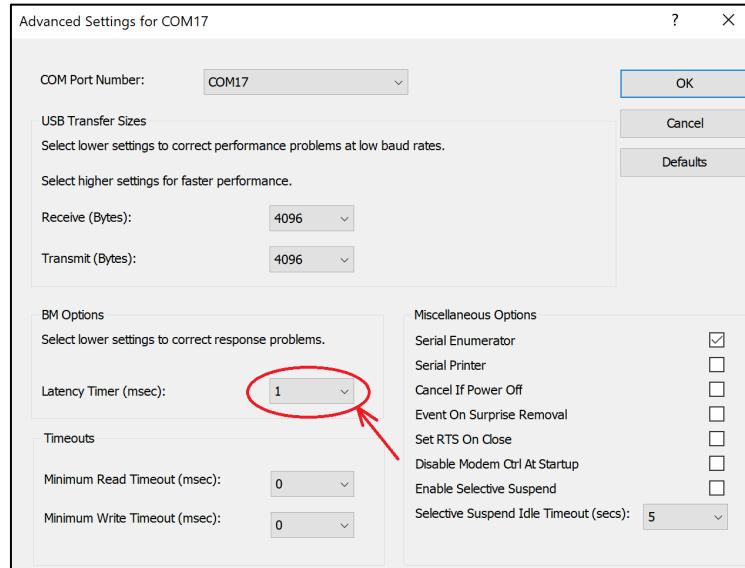
1. Connect the USB to RS485 adapter cable to the RS485 connector of the servo and the other end to the computer.
2. Connect the power supply to contacts **+Vdc**, **Gnd** of the connector, observing the polarity.
3. Set the nominal voltage to 24V.
4. **Open Device Manager.**
5. Scroll down to the “**Ports (COM & LPT)**” section.
6. Right click on the device and click on “**Properties**“.



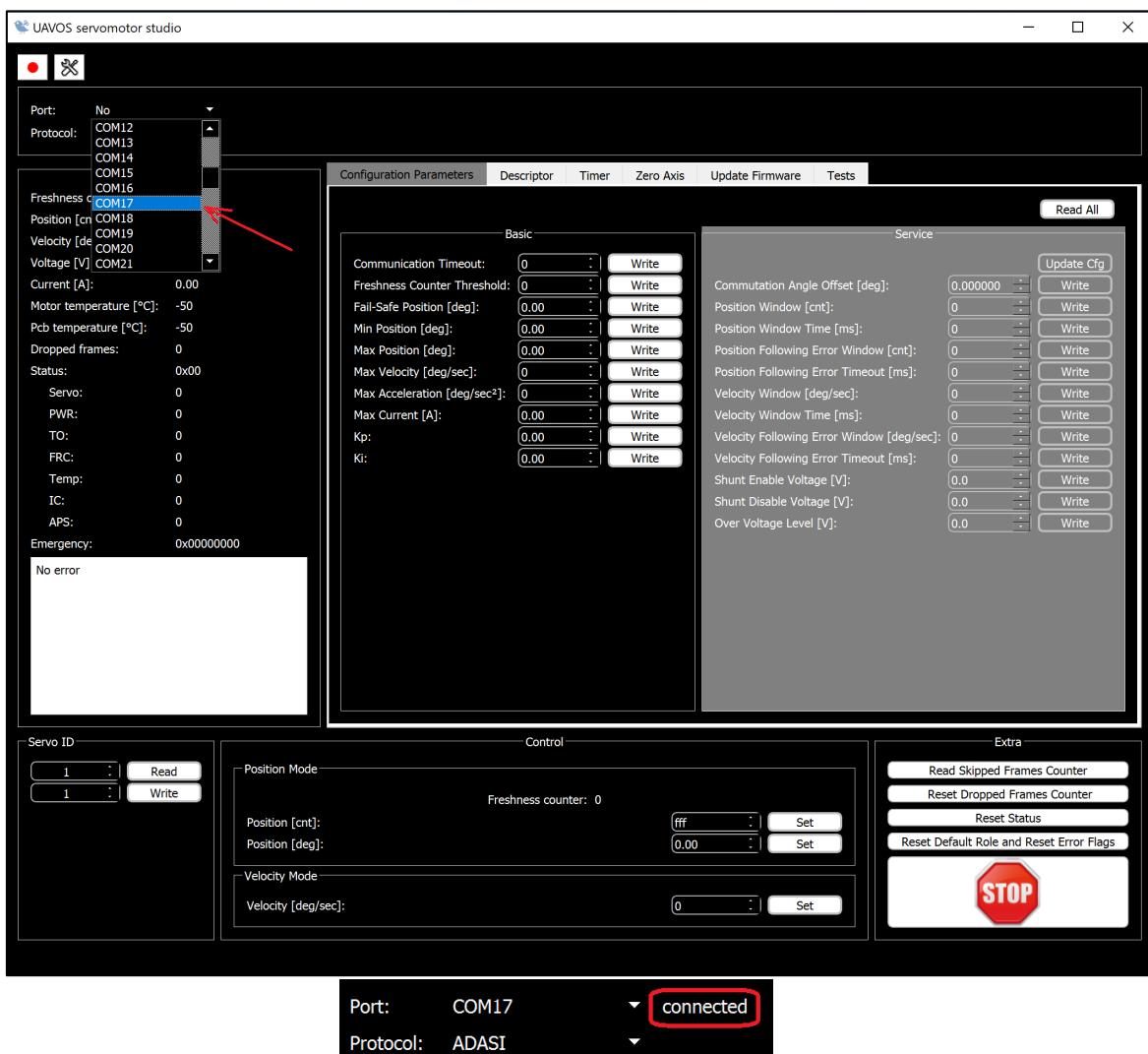
7. Click on “**Port Settings**“. Then click on “**Advanced...**“.



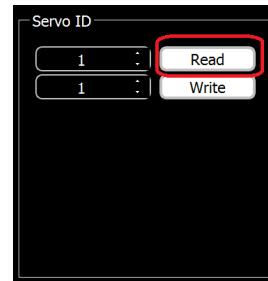
8. Check that 1ms is set in the “Latency Timer“.



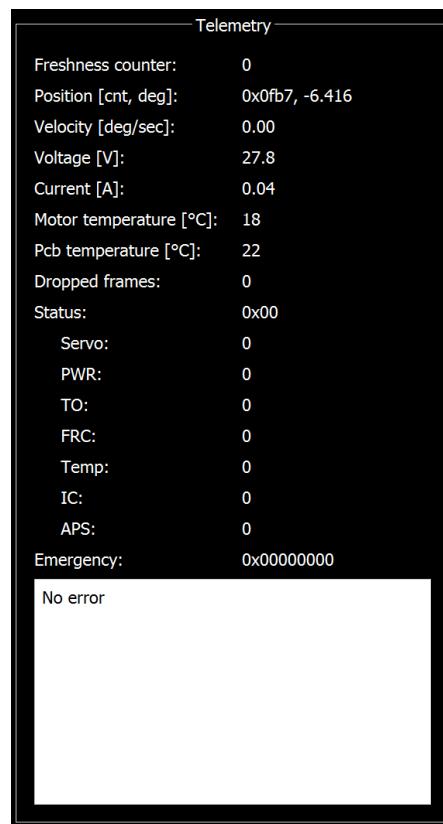
9. Run the application “UAVOS servomotor studio“ and select the desired port. If everything is done correctly, you will see the inscription connected.



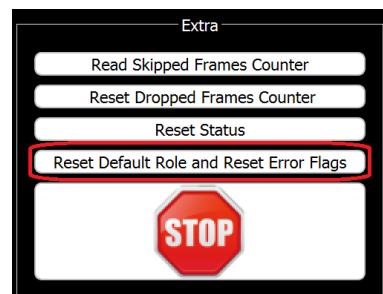
10. If the telemetry data did not appear, then you need to click on the “**Read**“ button in the “**Servo ID**“ widget to automatically find the servo ID. The “**Write**“ button is used to set a new servo ID (saved in the controller's memory).



11. “**Telemetry**“ widget displays current measured parameters. The “**Emergency**“ variable displays the current error code.

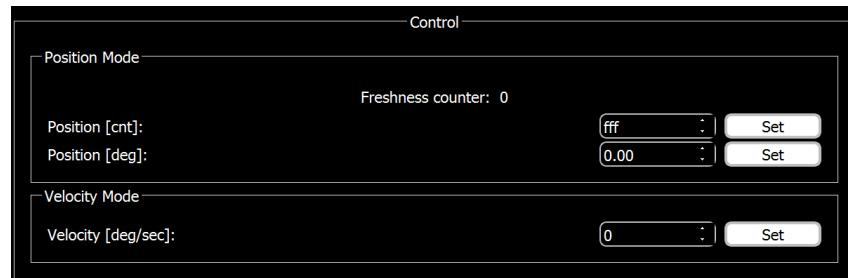


12. To reset the current error, press the “**Reset Default Role and Reset Error Flags**” button from the extra widget.

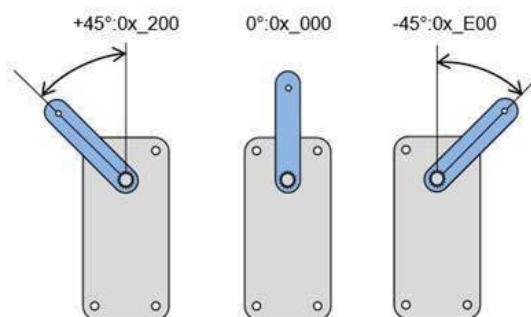


13. “**Stop**“ button is used for emergency stop of the servo (no current in the windings).

14. Servo control is carried out from the “**Control**“ widget. It can operate in two modes: “**Position mode**“ and “**Velocity mode**“.



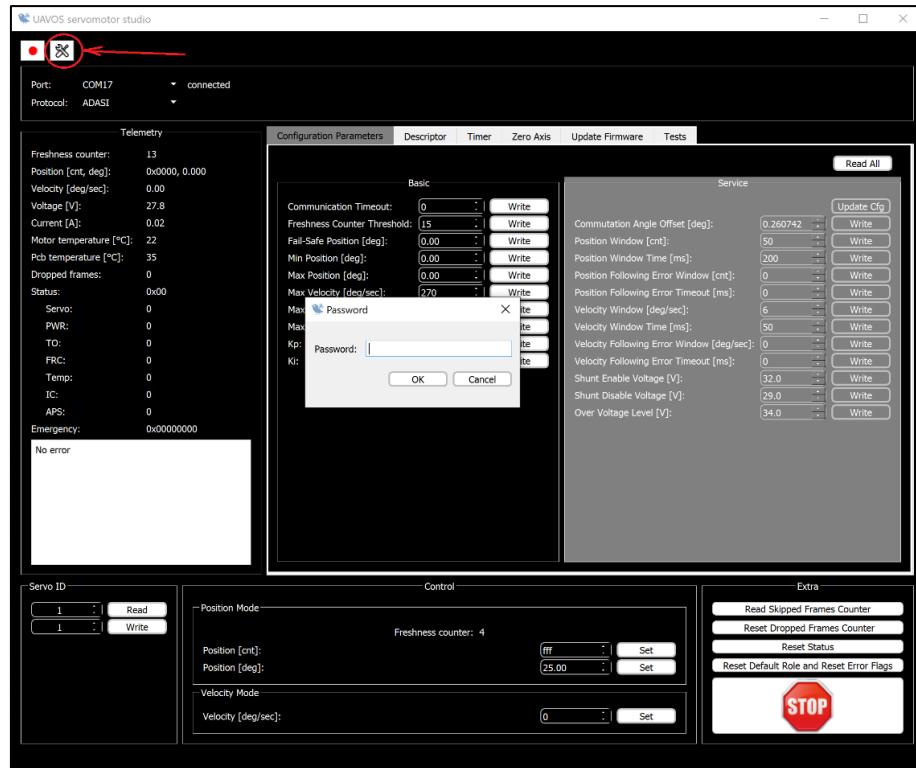
15. To control in counts, you must use the following picture for the appropriate conversion from degrees.



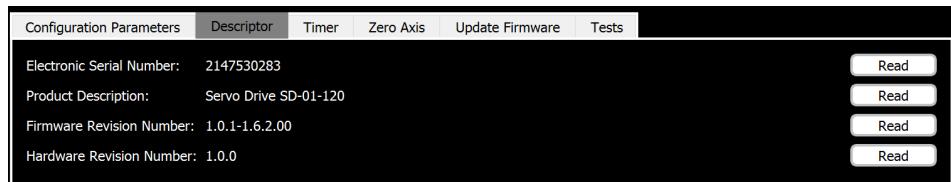
16. The tab of the widget “**Setting parameters**“ is intended for configuring the setting parameters. To read all the parameters, click the “**Read All**“ button.



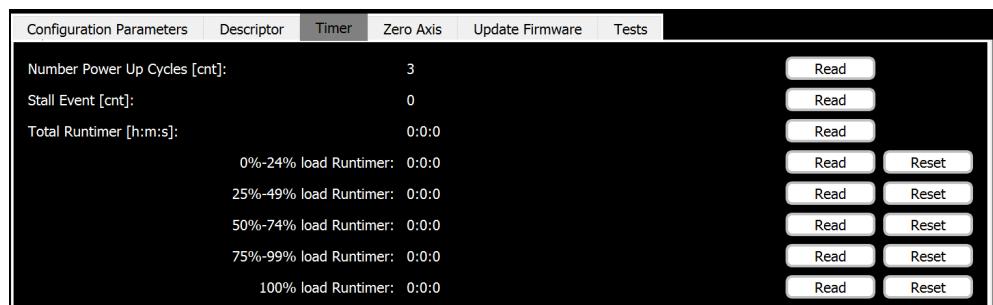
17. The “**Service**“ widget is activated after entering the password in the “**Password**“ dialog box that appears by clicking the icon “**Service**“.



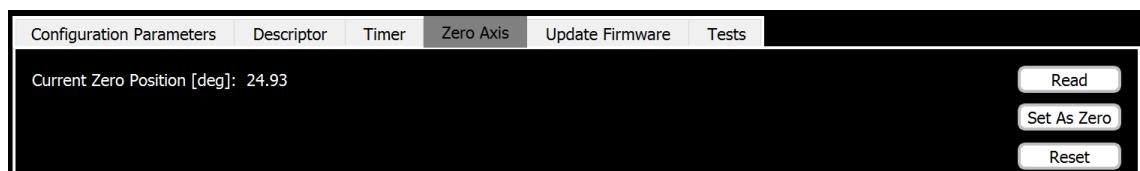
18. The “Descriptor“ widget tab is for reading information about the servo.



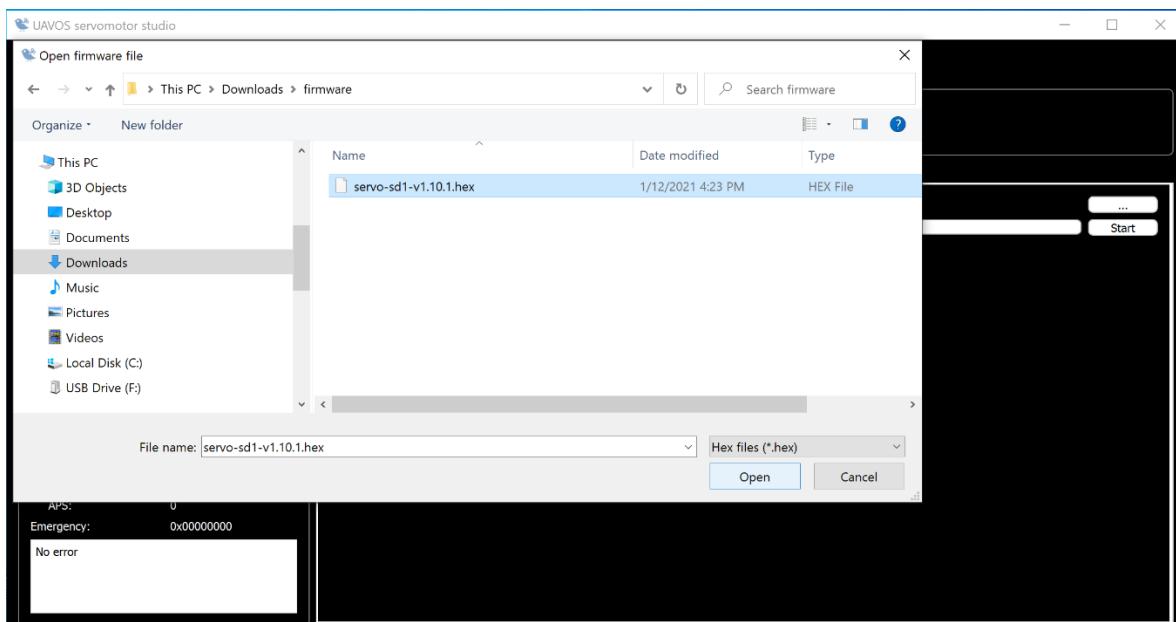
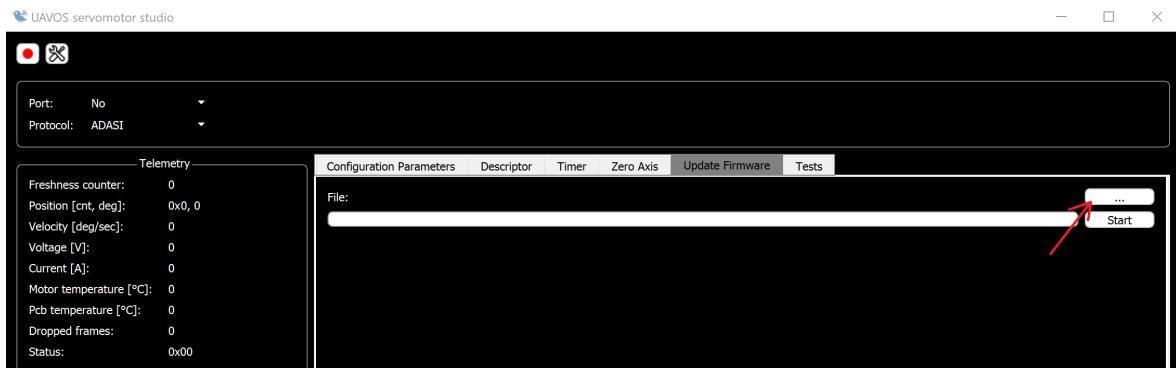
19. The “Timer“ widget tab is for reading the number of power-on cycles and servo operating time.



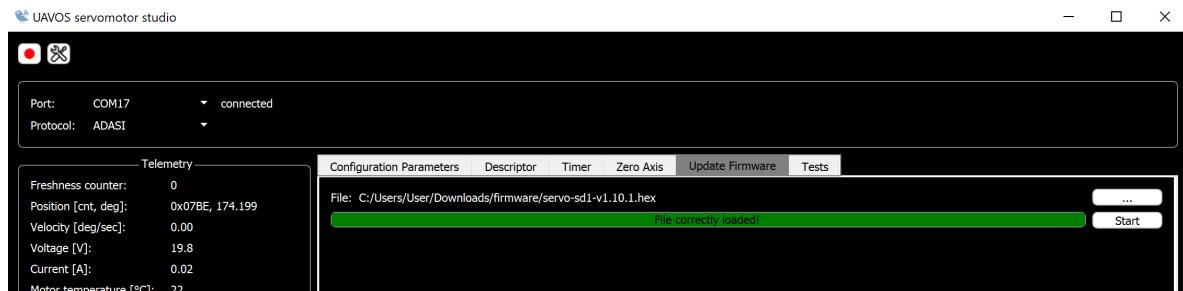
20. The “Zero Axis“ widget tab is for setting the current position as zero, and for reading the currently set zero offset and resetting it.



21. The “Update Firmware“ tab widget is designed to update the servo firmware. To update the firmware you need to click on the “...“ button and select the required file and click “Start“.



If everything went well you will receive a message “File correctly loaded!“.



Otherwise you will get the message “The device is not responding“.

