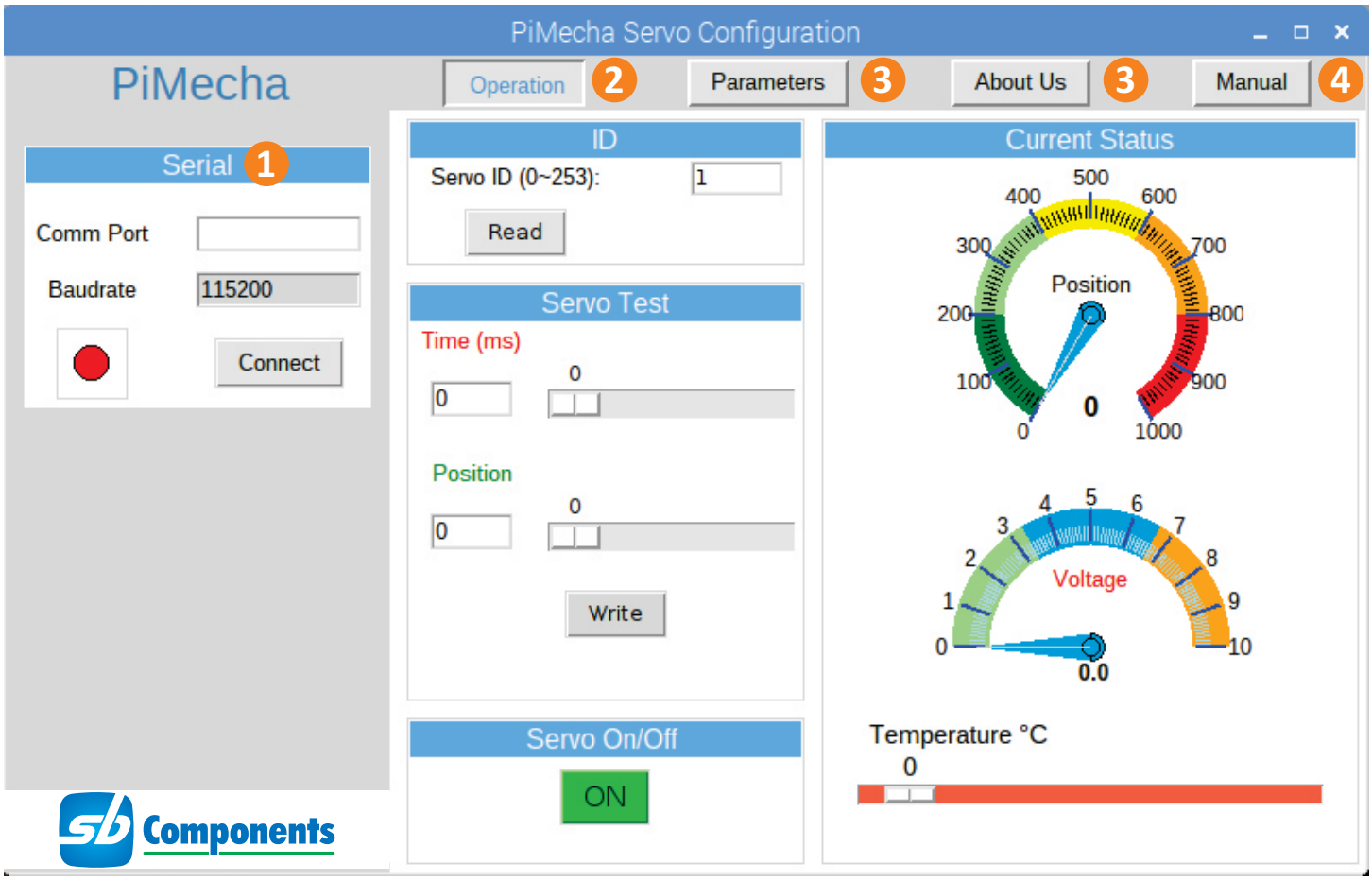
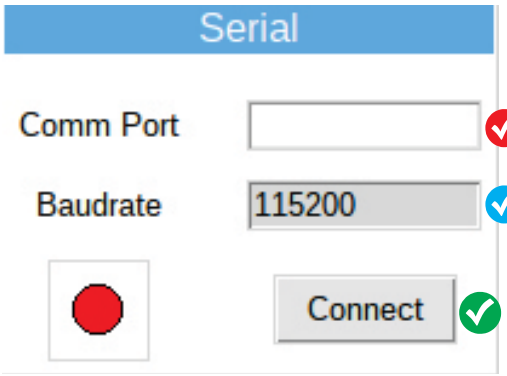
PiMecha Servo Config
Instruction Manual



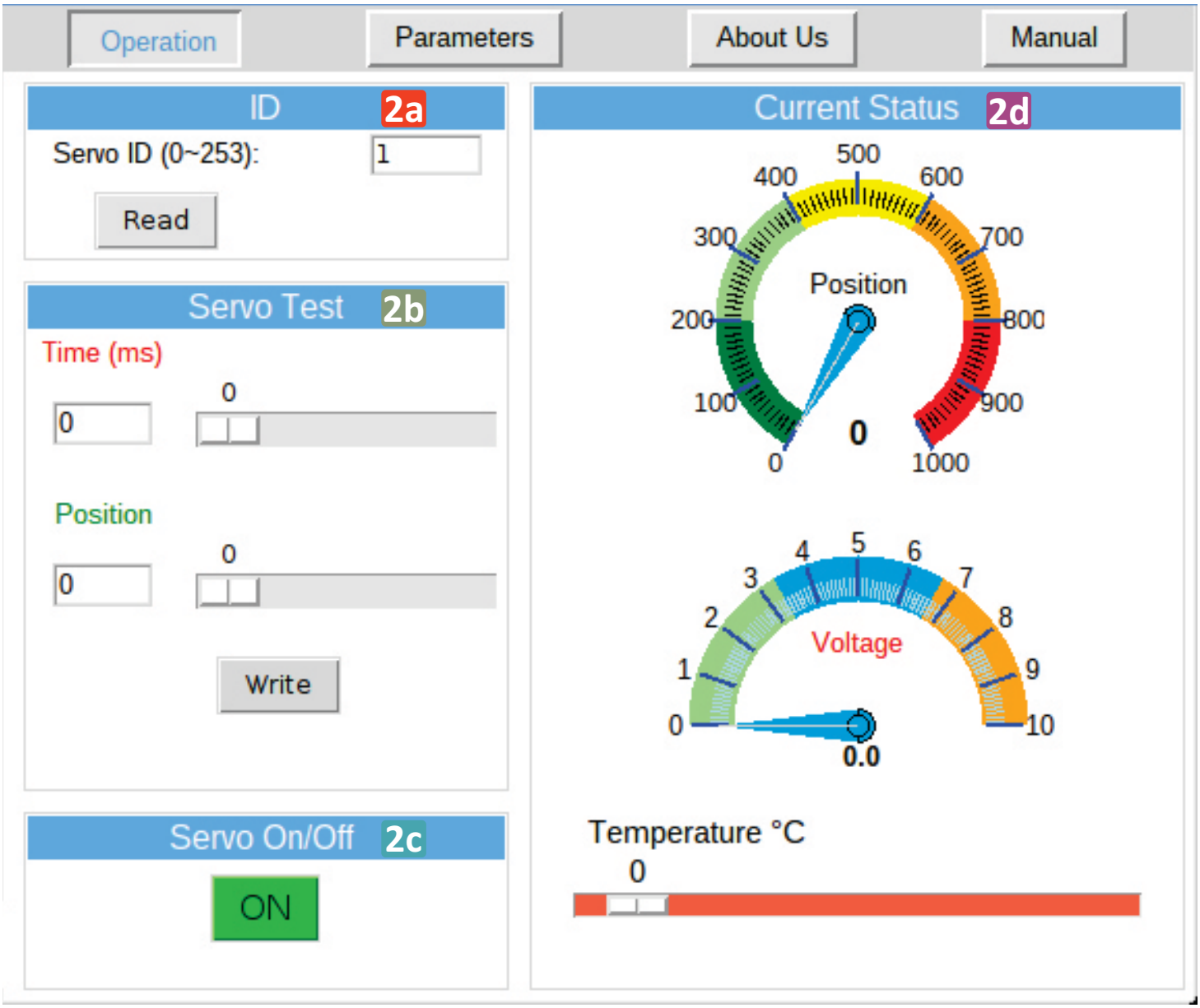
1 Serial

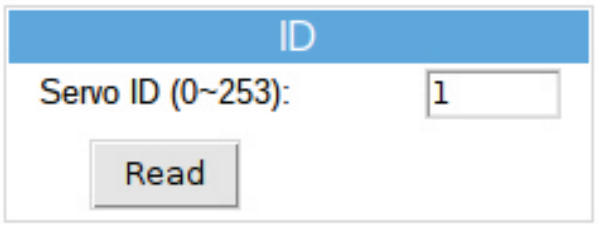


- Enter your port no. in this section.
  If connected through GPIO, enter **"ttyS0"**
  Else if connected through USB, enter **"ttyUSB0"**
- **Baud Rate** shall remain constant as **115200 bps**
- **Open** or **Close** Port

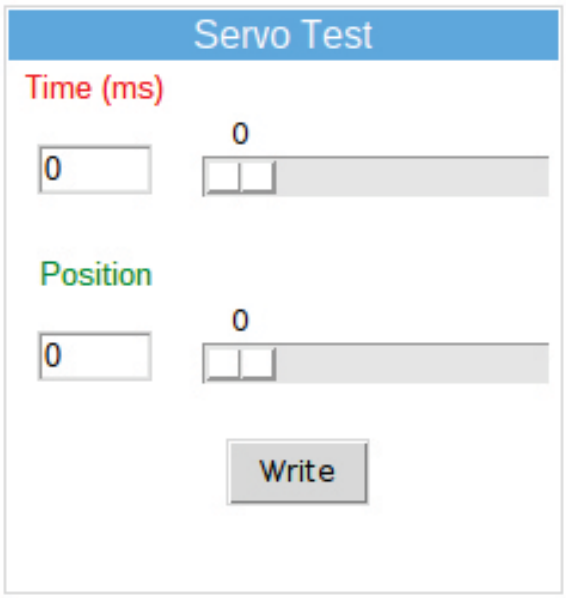
2 Operation

The user can read the value of the entered servo motor id, and can see the live data of the parameters like current, position and temperature. You can also test the servo by managing the time and position slider.



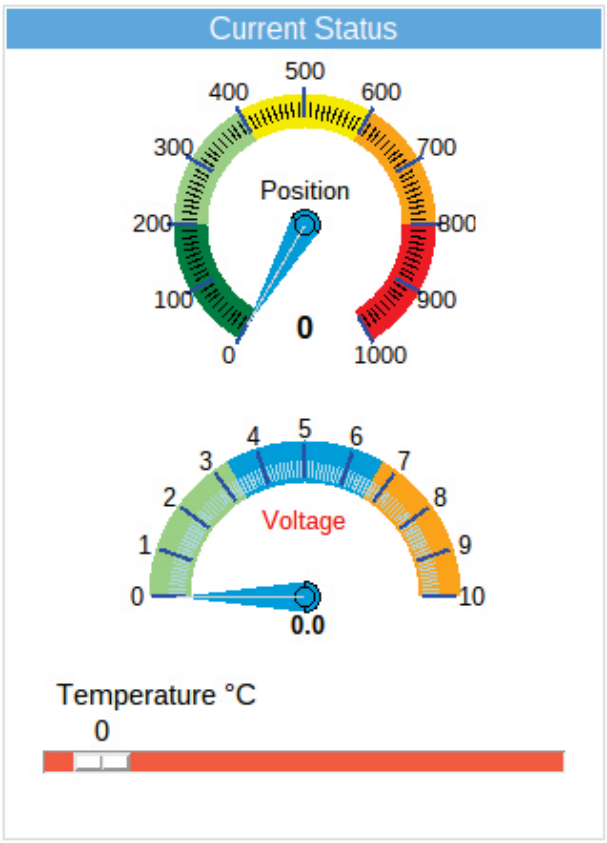


This section holds the ID of the servo you wish to read or test. You must enter the ID manually



You can change the position of the servos by moving the position slider. While time slider will allow you to manage the time lapse between 2 movements of a motor.

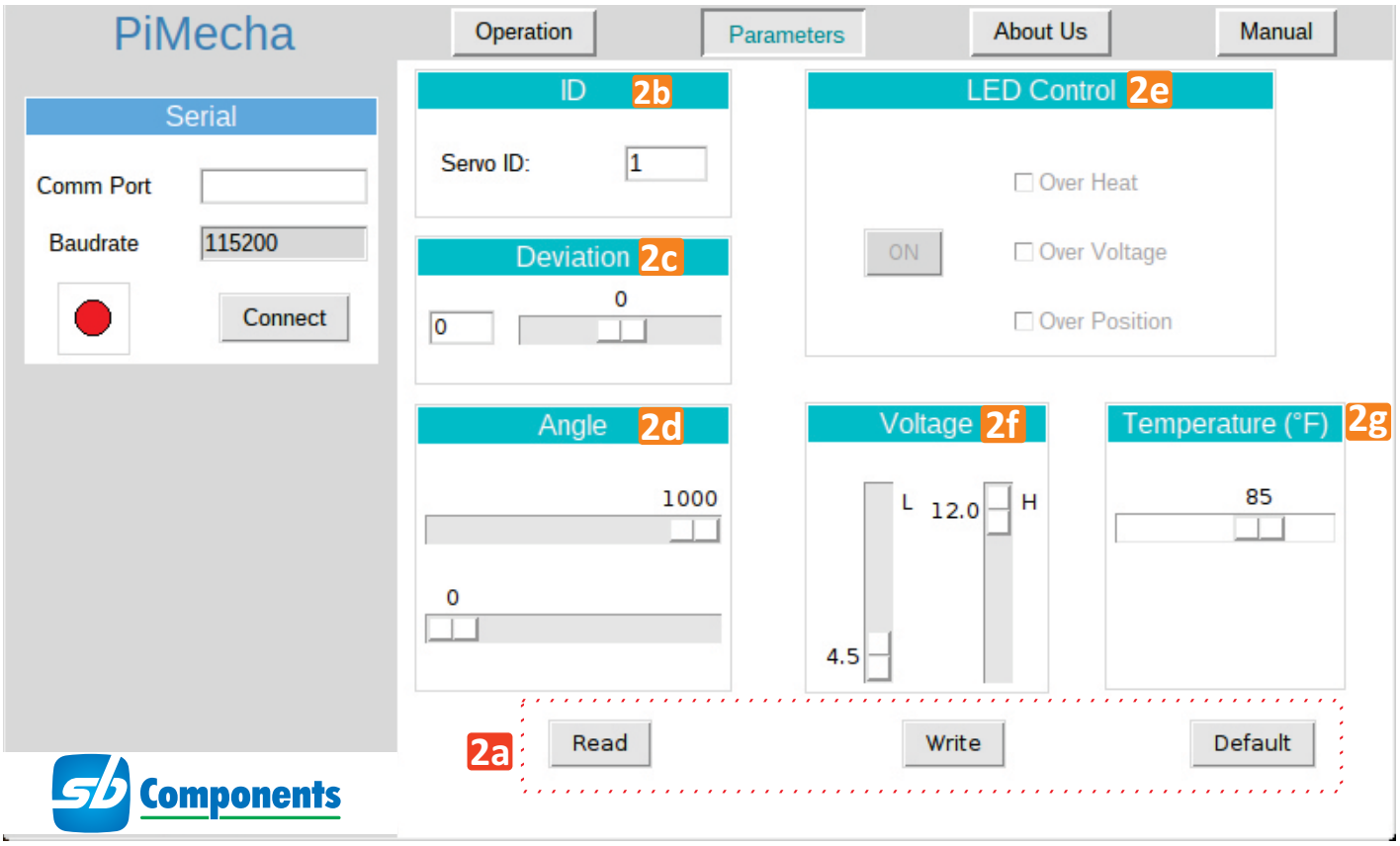
This section is used to enable/disable the servo torque.

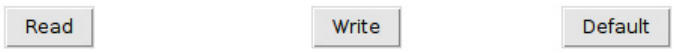


Displays the position, voltage and temperature of the motor. These parameters are run time entities. They are read once the ‘Raed’ button is enabled from ID section

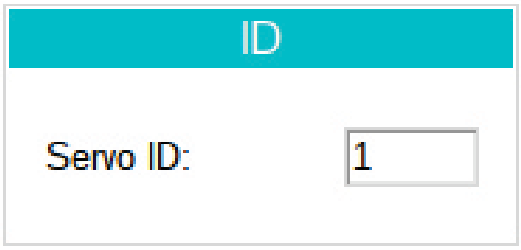
3 Parameters

This frame is used to let you know about the servo motor parameters like its ID (if you don't know the motor ID), deviation, angle limit, voltage limit and the temperature limit. You can also write/update the servo parameters.

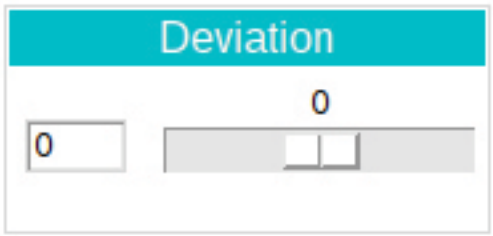




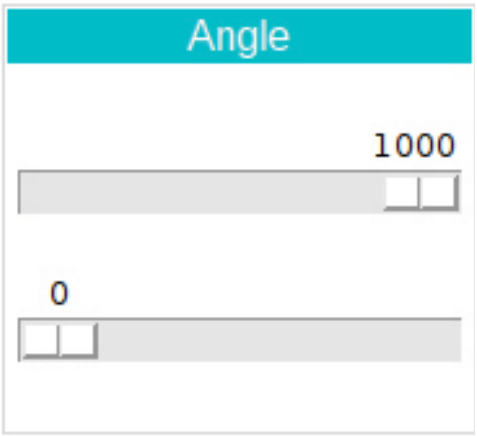
This section contains the 'Read' button, 'Write' button and the 'Default' button. Read button enables you to read the servo configurations. Write button allows you to update the servo configuration set by you. While the Default button will set all the parameters to their default settings.



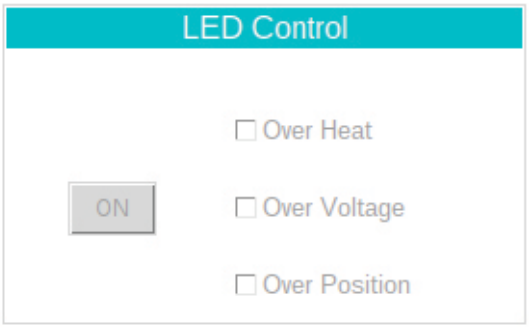
If you press the 'Read' button, the form shall display you the servo ID. Else if you wish to update the servo id, you must enter the ID in the box and press 'Write' button.



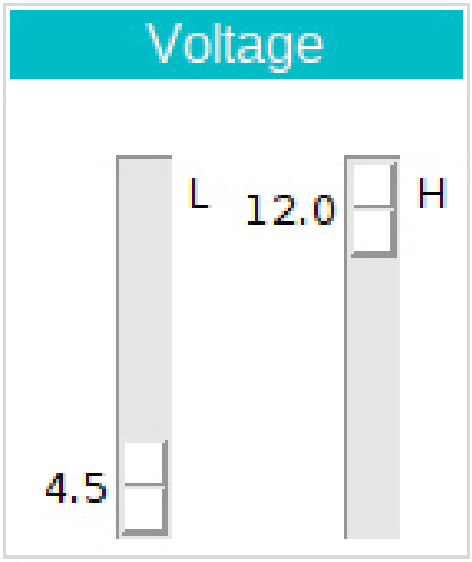
You can slide this bar to change the deviation of the motor. Again, 'Read' button will display you the current deviation of the servo, while if you slide the position of the slider and then press 'Write' button, it will set the new deviation angle of the servo.



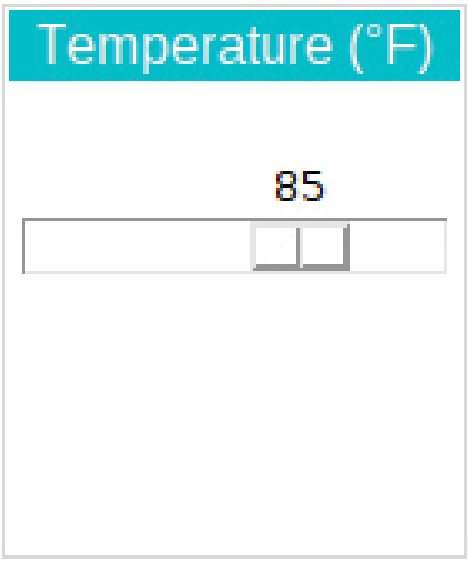
This section allows you to make the movements of the servo after you set the limit here. The 'Read' button will let you know about the current angle limit while the 'Write' button will allow you to set the new angle of the servo.



This section is disabled in the current version of PiMecha. An updated version is in the pipeline where this section will be used.



This will let you set the limit for the voltage of the servo. Below the minimum set limit and above the maximum set limit, the servo shall not function.

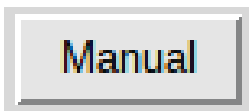


This will let you set the limit for the temperature of the servo. Below the minimum set limit and above the maximum set limit, the servo shall not function.

4 About Us

This button shall contain the information about the PiMecha humanoid

5 Manual



This button would provide you the software manual in PDF form.