Quick Reference Chart CBC Control Center

Type of cylinder function: Pulse, Mono-stable (2 positions), Bi-stable, 3 position, 4 position. The image supports the type of cylinder function

Read the settings from the file or controller to display these settings in this program.

Actual values of position, position error or current. If the check boxes are selected, the variable is shown in the graph

For primary Y-axis and secondary Y-axis in the plot you can type the min and max value or Auto scale the range.

4 inputs and 4 outputs status showing live. Note that some might not be in use for the selected cylinder type. In- and outputs can be manipulated by mouse button.

Define positions of the cylinder. Push the teach button to take current position as target position.

The interval time is the time between samples. The amount of samples is the amount of samples shown in the plot.

Window around target position which is considered in position

Target speed of the cylinder.

The Start/Stop button starts or stops the moving plot. The Save log stores the plot (also the points moved out of the screen) into a .csv file. The file can be loaded with excel for further analysis or presentation.

Set harder if moving mass is added to the cylinder.

Write actual settings to cylinder/controller file, run the program or stop the program on the cylinder/controller.

Status of the controller. In case of error , the ?-button shows details and Fault reset can be used to reset the error (if it is no longer present)

Button to switch the cylinder off. It is required to push the Run button to start it again or re-power the controller.

Serial port number that you connect to. Gray tekst if connected, black if you can change this setting.
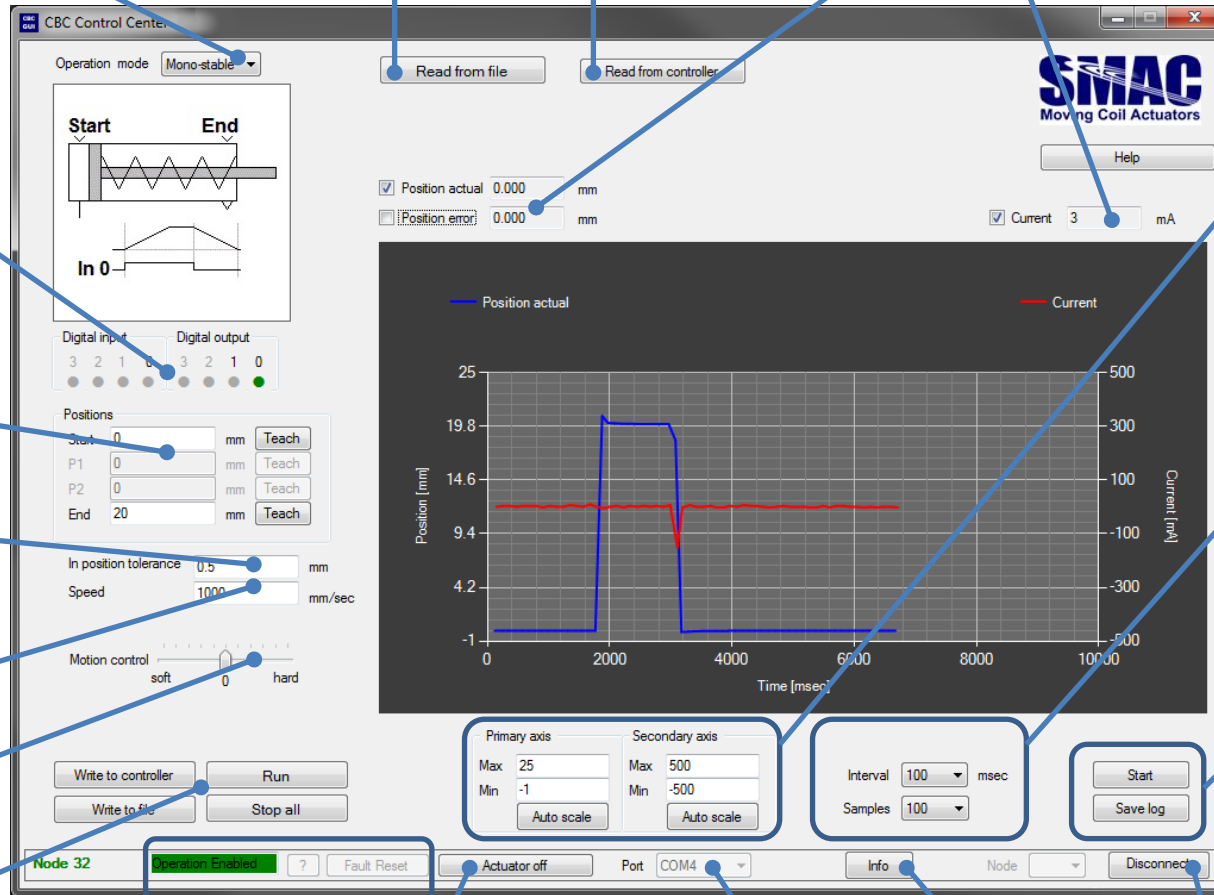
Button that shows information on the controller you are connected to.

Button to connect or disconnect the serial communication to the controller.

Screenshot labels

CBC Control Center

Operation mode Mono-stable

Read from file   Read from controller

SMAC Moving Coil Actuators

Help

Start   End

In 0

Position actual 0.000 mm
Position error   0.000 mm

Current 3 mA

Digital input 3 2 1 0   Digital output 3 2 1 0

Position actual   Current

Positions
Start 0   mm Teach
P1   0   mm Teach
P2   0   mm Teach
End   20   mm Teach

In position tolerance 0.5 mm
Speed   1000 mm/sec

Motion control   soft 0 hard

Position [mm]: 25, 19.8, 14.6, 9.4, 4.2, -1
Time [msec]: 0, 2000, 4000, 6000, 8000, 10000
Current [mA]: 500, 300, 100, -100, -300, -500

Write to controller   Run
Write to file   Stop all

Primary axis
Max 25
Min -1
Auto scale

Secondary axis
Max 500
Min -500
Auto scale

Interval 100 msec
Samples   100

Start
Save log

Node 32   Operation Enabled ? Fault Reset   Actuator off   Port COM4   Info   Node   Disconnect