

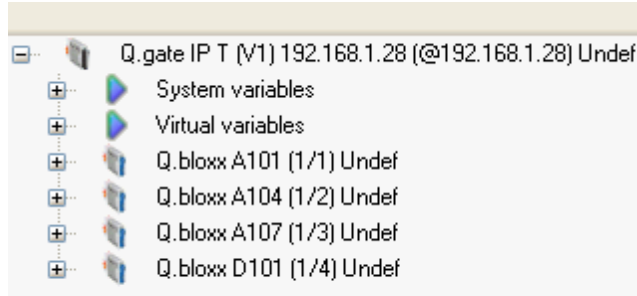


Quick Start Guide: How to Perform a Point to Point Calibration with Live Values using a Q.series Controller inside test.commander

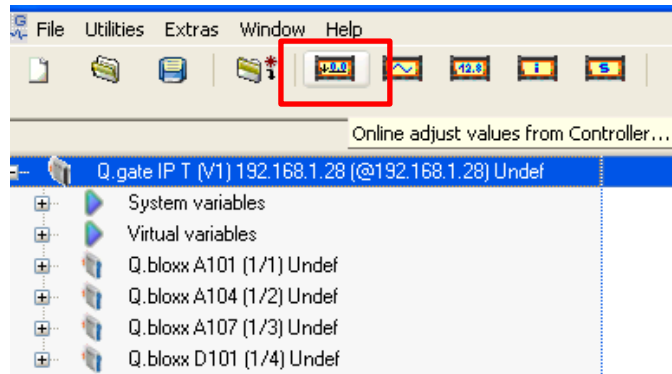
Purpose: This guide describes how to adjust/calibrate the input readings of a channel using live input values from the sensor.

Procedure:

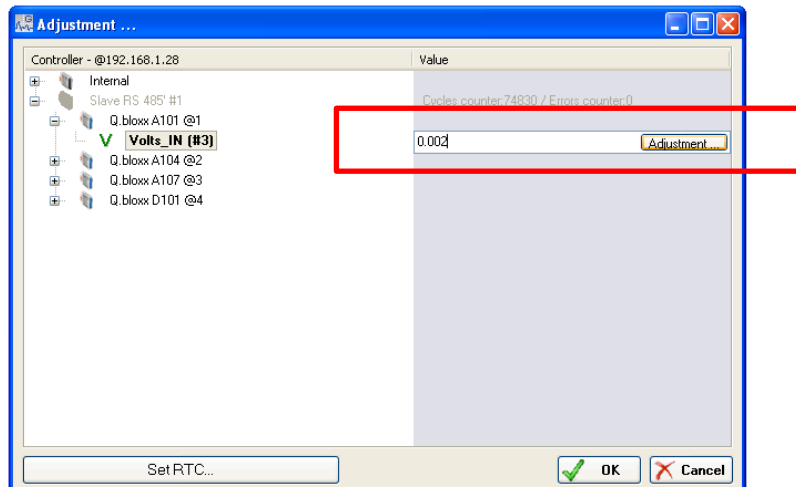
1. Connect the controller and add it to the current project. The controller and all I/O modules should be shown in the project space:

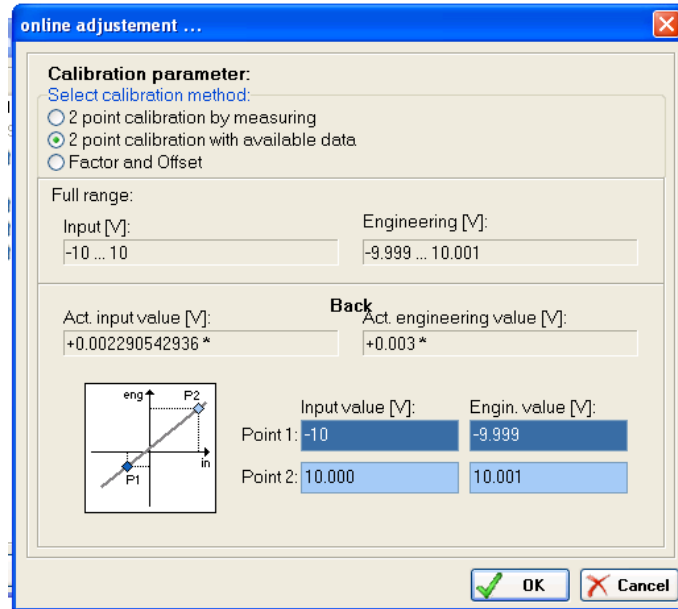


2. Highlight the attached controller and select Online adjust values from controller:

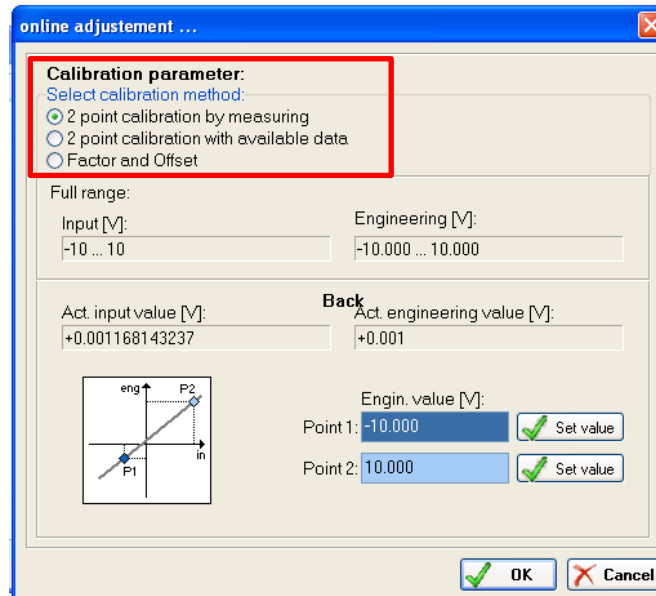


3. The online adjustment window will appear.
4. Click on the variable you want to calibrate and select the Adjustment button to the right:





5. Select the 2 point calibration by measure:



6. For this example, we have a signal generator connected to an A101 for voltage input 0-10V. For demonstration purposes, we will set Point 1 to -10V (with an actual input of 0V) and set Point 2 to 10V (with an actual input of 10V). With this calibration, an actual input of 5V will be displayed as 0V.

7. Set the signal generator to 0V, make sure Point 1 displays -10V and click Set value.

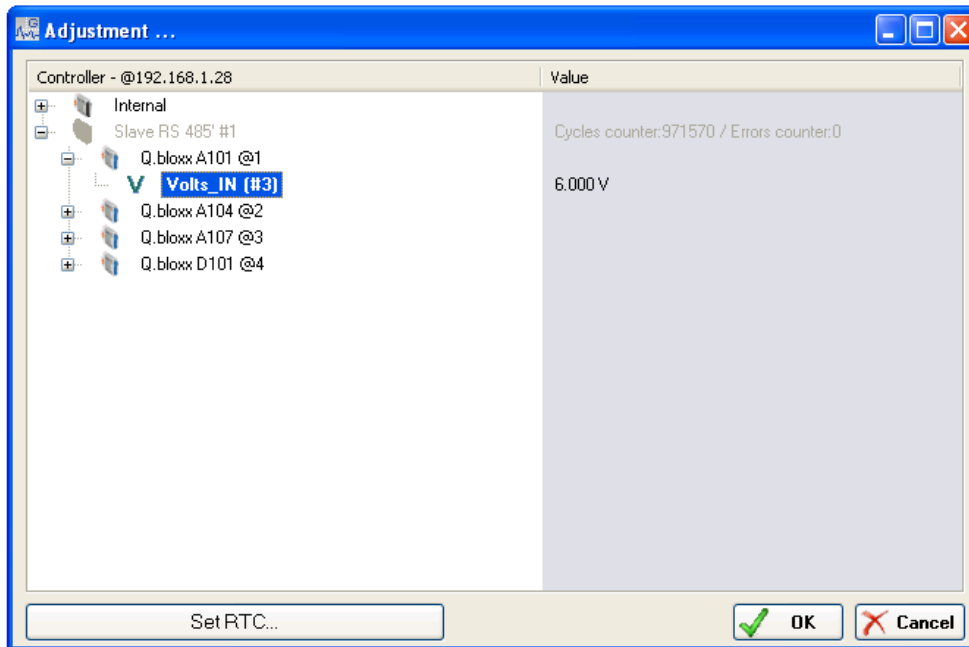
8. Set the signal generator to 10V, make sure Point 2 displays 10V and click Set value.



9. Click OK when complete.
10. You will notice that when the signal generator is set to 0V, the A101 will display -10V and when set to 10V the A101 will display +10V. All values in between these two points are linearized:

Signal Generator	A101
0V	-10V
2V	-6V
4V	-2V
5V	0V
8V	6V
10V	10V

Example: (signal generator set to 8V)



11. Make sure to update the project to the connected test controller.

Contact us today if you have any further questions!