

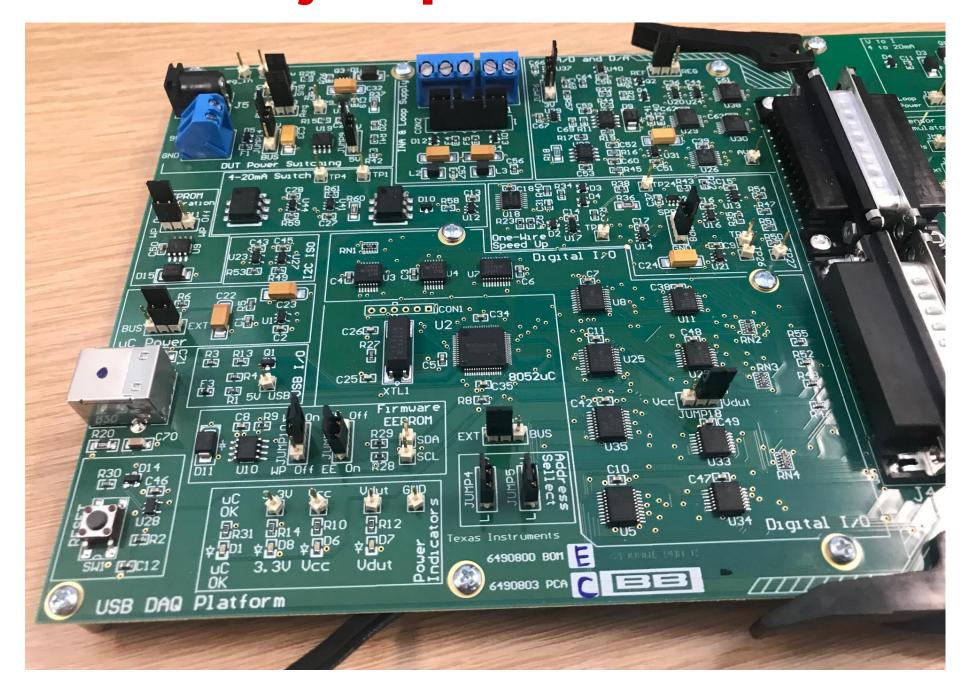
Set the jumpers on the test board.



JMP	Position
10	NC
11	Vdut Power
12	Vexc
17	Emulate
14	10m
15	10m
16	Rt+
2	Vs
1	NC
3	ADS1
9	NC
4	Emulate
5	Emulate
13	Diode
6	Emulate
7	NC
8	ONE to PRG



Set the jumpers on the USB-DAQ



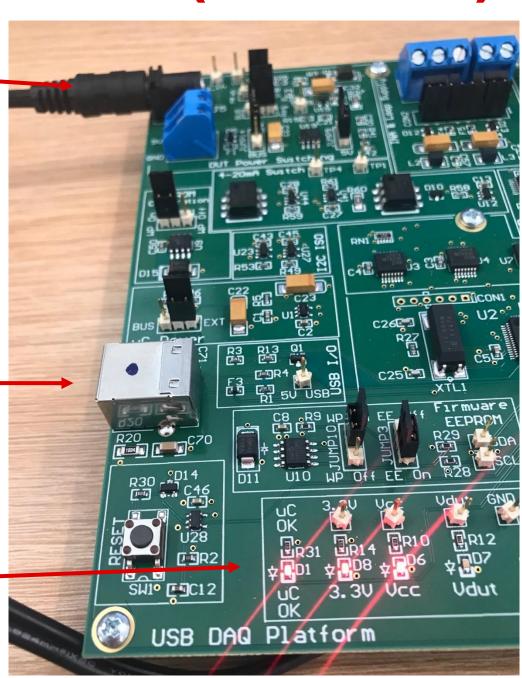
JMP	Position
17	BUS
13	Reg
14	9V
9	5V
11	WP On
6	5V
7	REF
1	EXT
8	GND
10	WP On
3	EE On
2	EXT
4	L
5	L
18	VDUT

Connect Power (6V to 9V) then USB

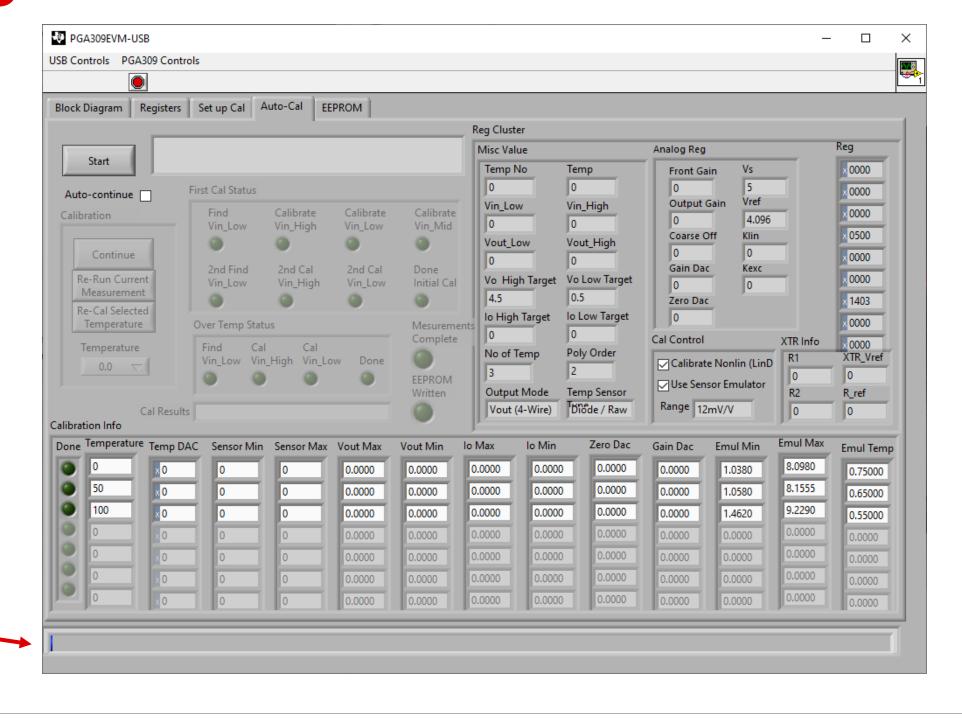
1. Connect 6V to 9V DC power here

3. Connect USB here

2. LED should eliminate as shown.



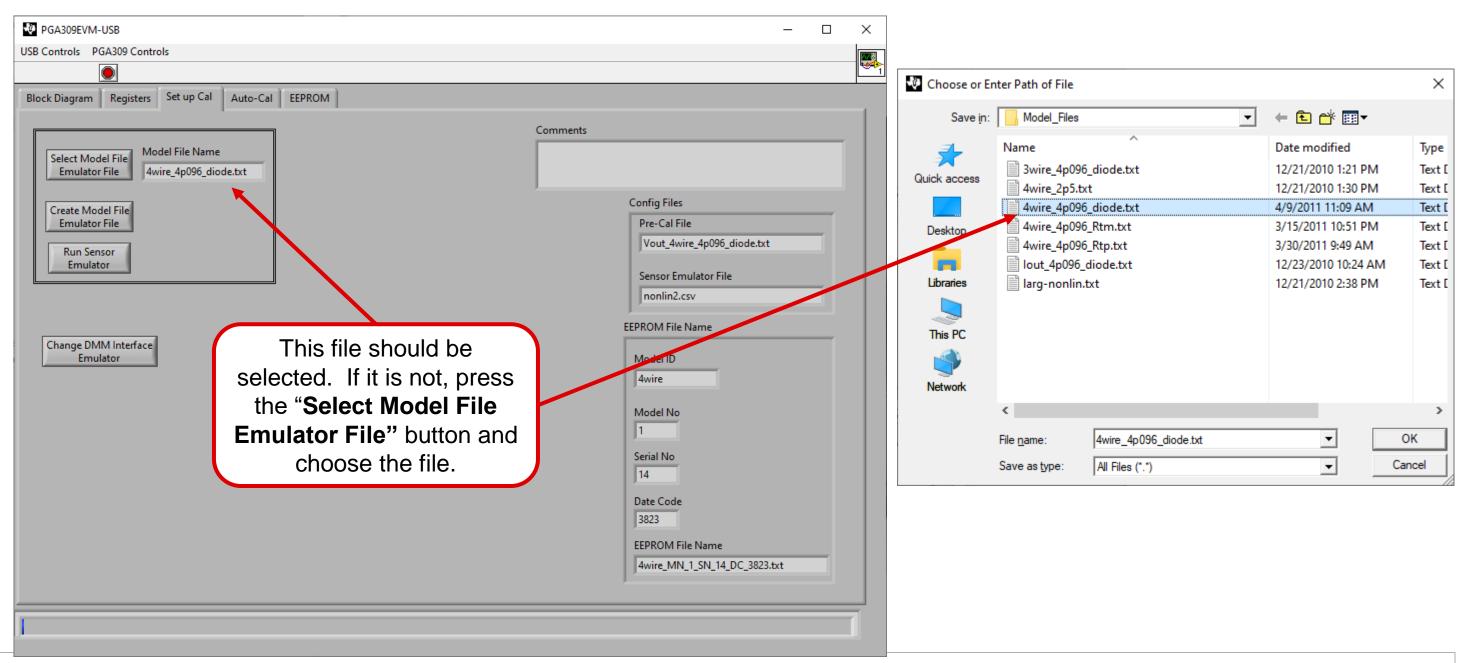
Start Software



Should see a quick update on status bar and no error messages.



Select the "4wire_4p096_diode.txt" if needed



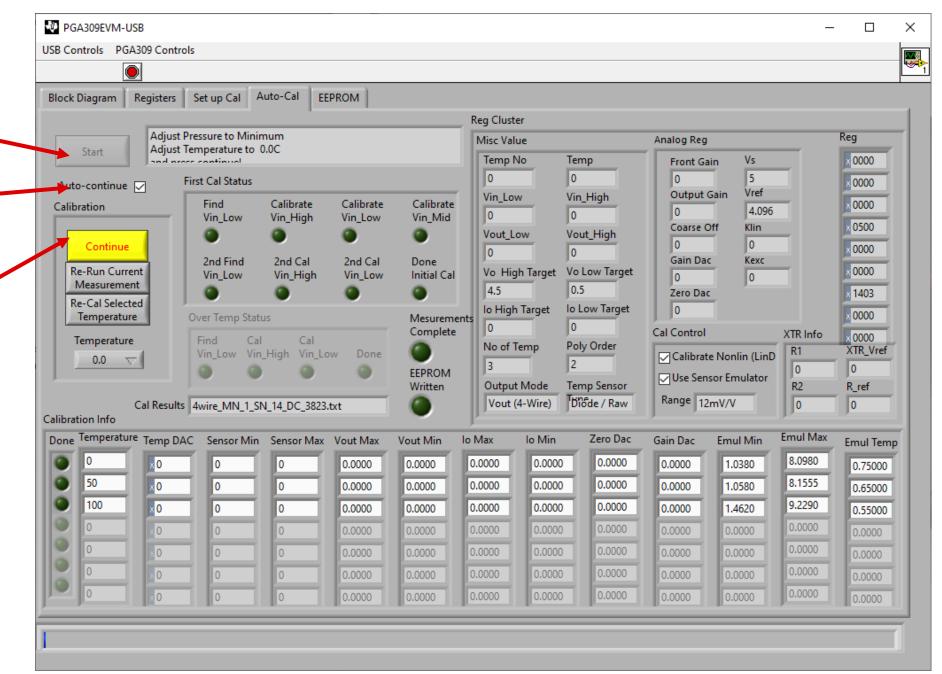


Run Auto-Cal

2. Press start.

1. Check "autocontinue" to speed up calibration.

3. Continue should start to blink. Press this to initiate calibration.

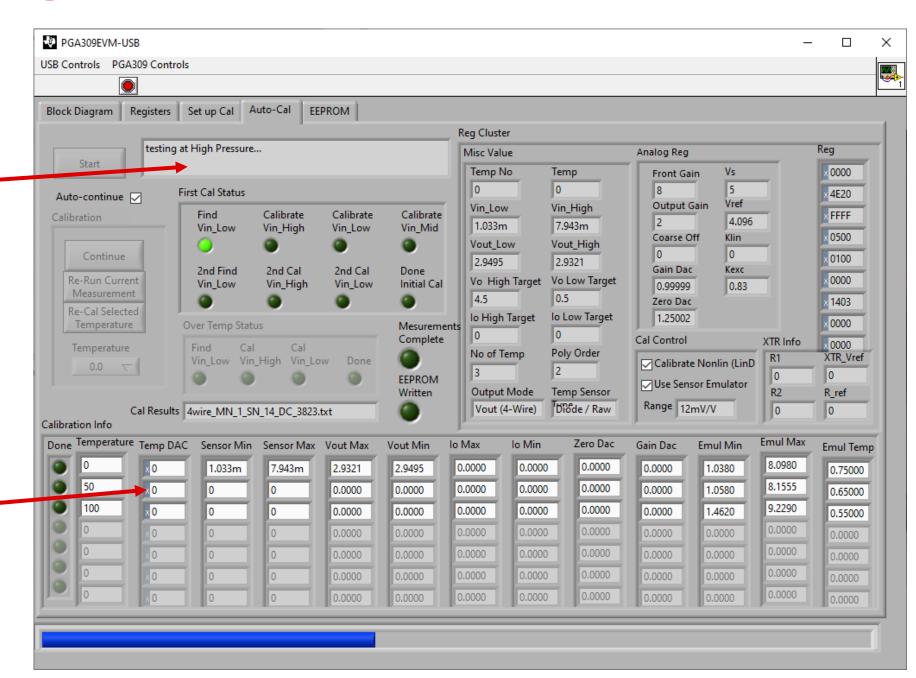




Calibration progress

1. Text describing the current step is shown here

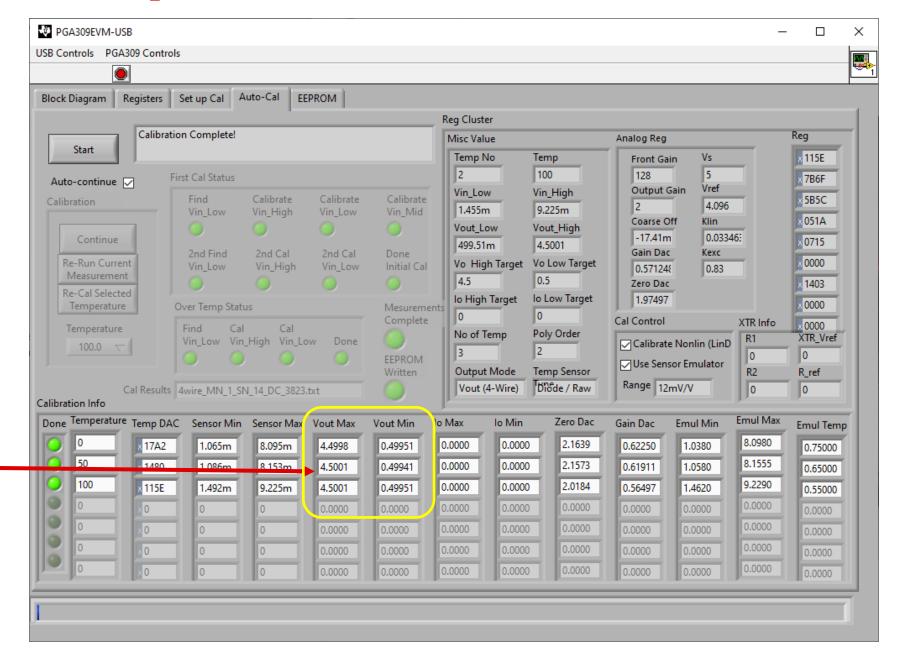
2. Measured results will update here. The sensor emulator will automatically adjust the "sensor" output according to the current emulated temperature and pressure.





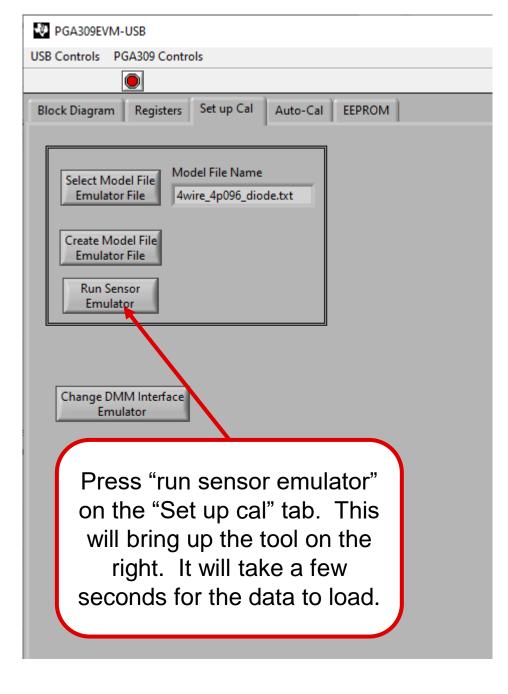
Calibration complete

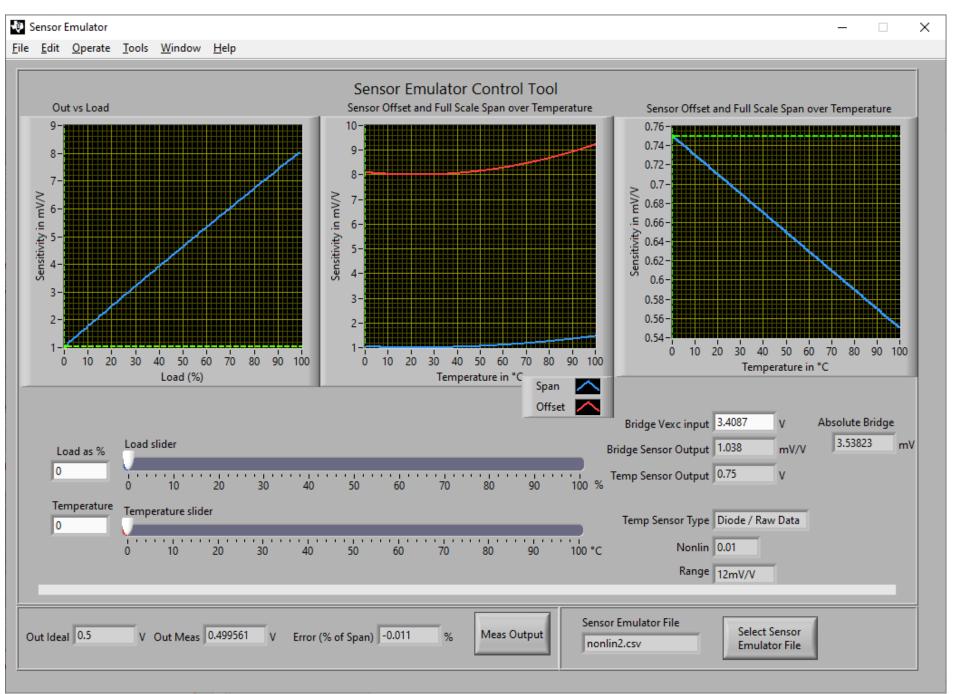
1. Notice that the calibrated min and max output are approximately at the target of 0.5V to 4.5V. This indicates that the calibration worked and the hardware is functioning correctly





Sensor emulator for verification







Sensor emulator for verification

2. The cursor position will adjust to show the current temperature and pressure conditions on the sensor curves.

1. Adjust the sliders to any temperature or pressure.

3. The "ideal output" and "Out Meas" should be approximately equal. The Error should be less than 0.1%. In this case the error is 0.017% so it is working well.

