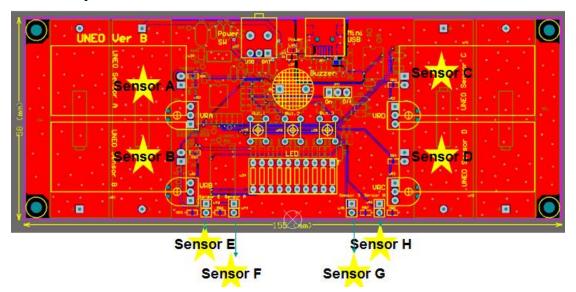
8-Channel Resistive Force Sensor Demo Kit

Demo Kit Software Download link:

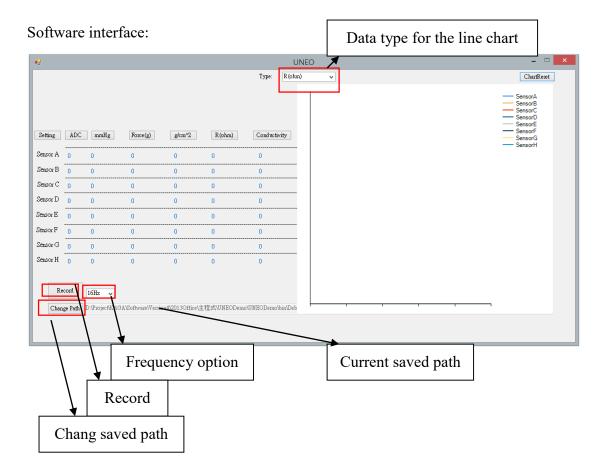
http://files.uneotech.com:8080/share.cgi?ssid=05hPvnh

Hardware spec:58mm x 155mm



4-Channel VR100K Resistor (Sensor A / Sensor B / Sensor C / Sensor D)

4-Channel Fixed 10K Resistor (Sensor E / Sensor F / Sensor G / Sensor H)

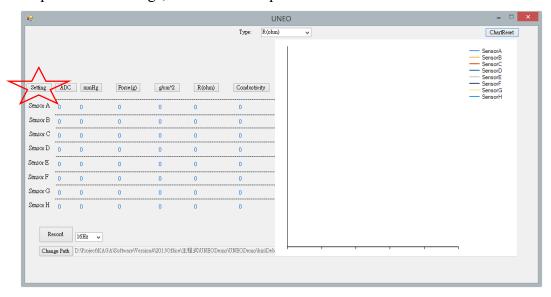


There are five different data types for the line chart (mmHg; Force(g); g/cm²; R(ohm); Conductivity) and the line chart image on the software interface can be saved.

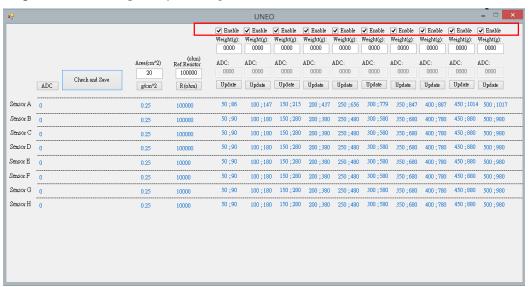
Since the value of each data types (mmHg; Force(g); g/cm²; R(ohm); Conductivity) should be computed through the value of ADC to find out their relationship, so setting in advance is required when first time use the demo kit and software.

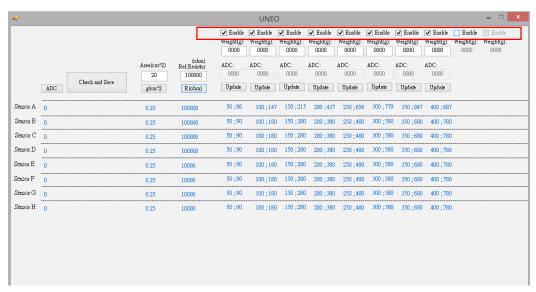
Software setting function:

Step 1: click "Setting", then enter the operation interface.

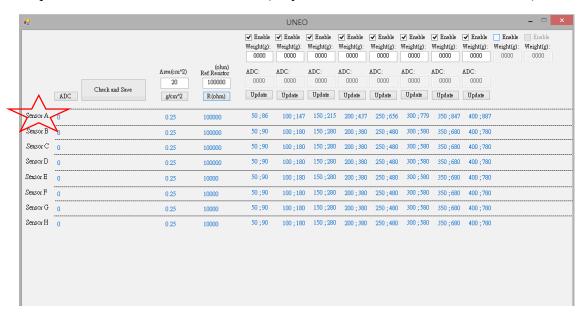


Step 2: Choose the quantity of weight that needs to be calibrated.

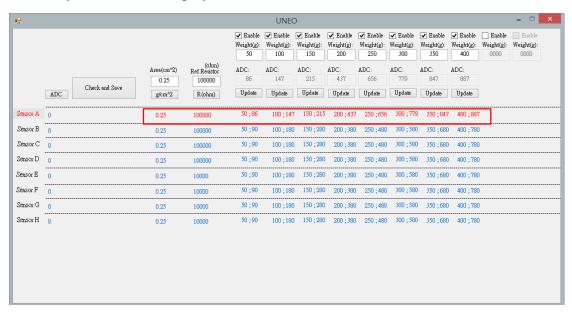




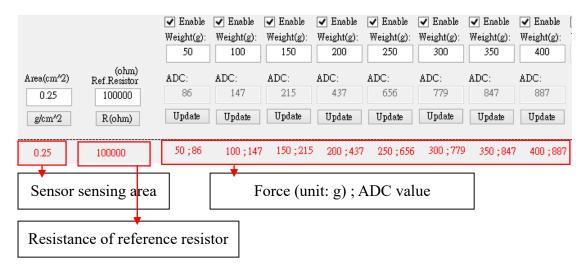
Step 3: click channel to do calibration (only can calibrate one channel each time)

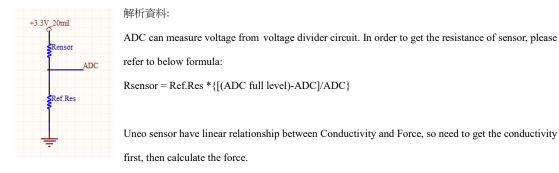


Channel you chose will display red.



Calibrated information:





There are 8 channels in one demo kit. 4 Ref.Res for Variable resistance+Fixed resistance and 4 RefRes for only Fixed resistance.

For example, Ref.Res is 100K and ADC value is 256, so Rsensor = 100K * (1023-256)/256 ==> Rsensor is 300K

Resistance / Conductivity: Use ADC value and RefRes to find out

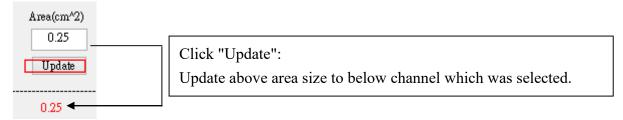
Pressure: Use Force(g) to construct a linear equation with one variable, and find the pressure value by current Conductivity.

mmHg / g/cm²: Use Sensor Sensing Area and Force(g) to find out pressure.

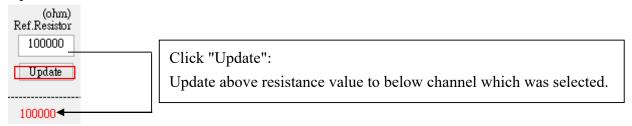
Step 4: Update "Sensor Area/ Ref. resistance/ Force/ ADC value"

		▼ Enable Weight(g): 50	✓ Enable Weight(g):	Enable Weight(g):	Enable Weight(g):	✓ Enable Weight(g): 250	Enable Weight(g):	✓ Enable Weight(g): 350	Enable Weight(g):	Enable Weight(g): 450	✓ Enable Weight(g): 500
Area(cm^2)	(ohm) Ref.Resistor 100000	ADC:	ADC:	ADC: 215	ADC: 437	ADC: 656	ADC: 779	ADC:	ADC:	ADC: 1014	ADC:
Update	Update	Update	Update	Update	Update	Update	Update	Update	Update	Update	Update
0.25	100000	50 ; 86	100 ; 147	7 150;215	200 ; 437	250 ; 656	300 ; 779	350 ; 847	400 ; 887	450 ; 101	4 500;101

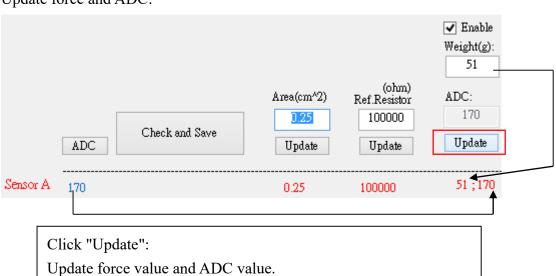
Update Sensor area size:



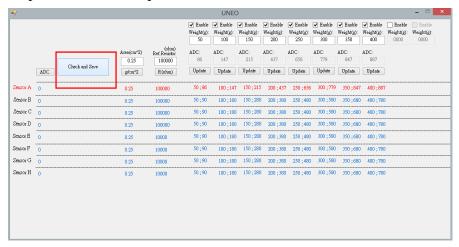
Update Ref. resistance:



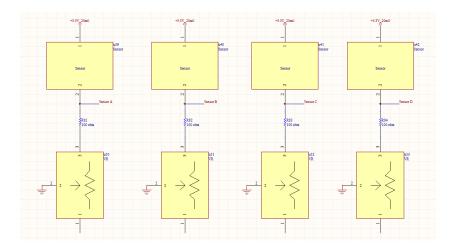
Update force and ADC:

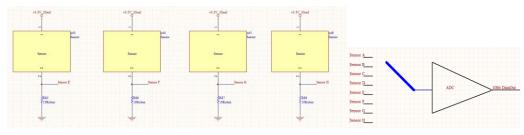


Step 5: check current parameter and save, then re-start software.



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