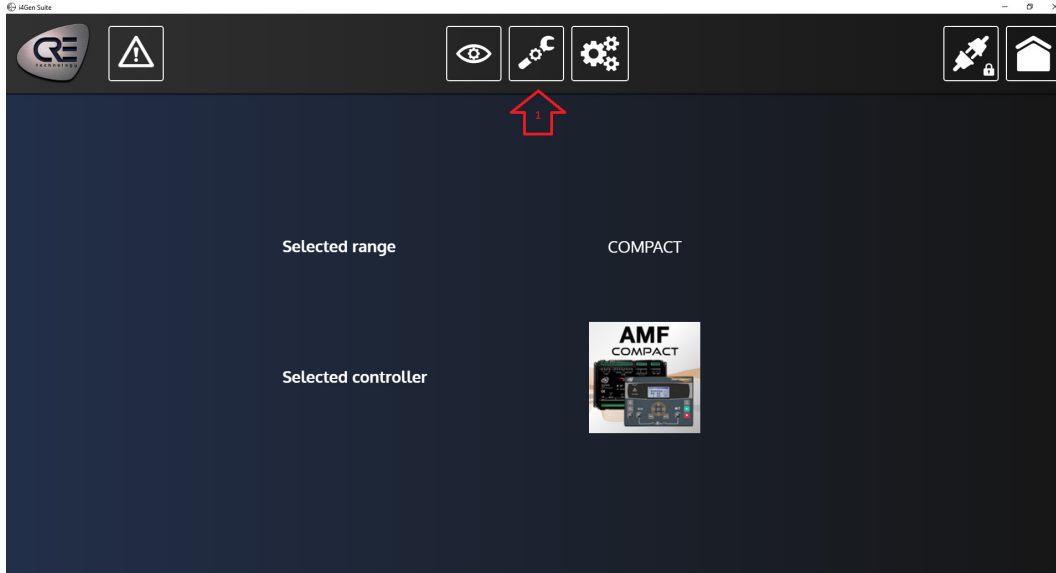# Setting up Murphy Senders in the CRE Controller
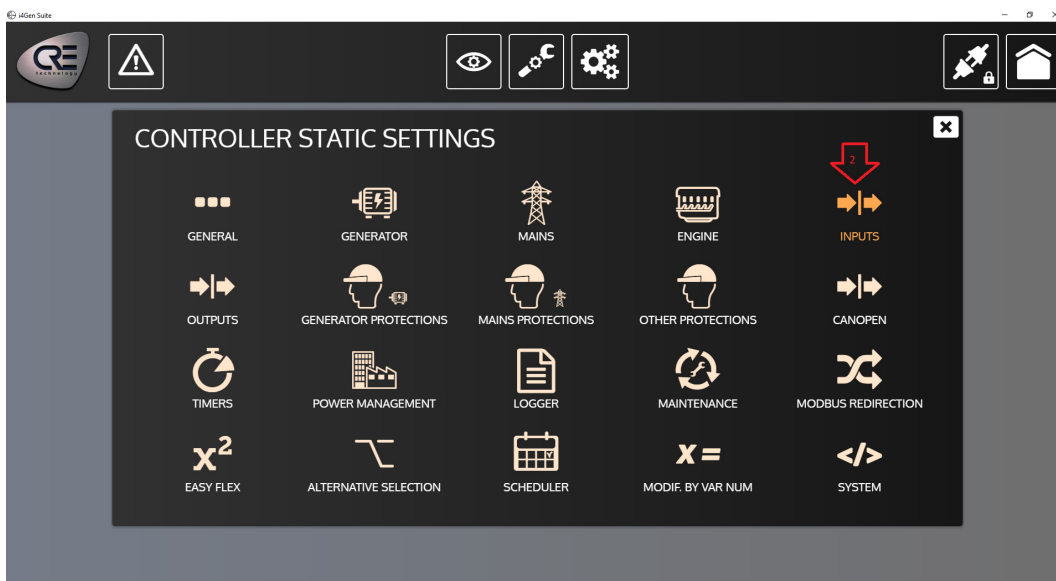
STEP 1: Download the CRE i4Gen Suite Software App using the following link:

https://www.cretechnology.com/en/files/download/5e7b28a9d4076-i4gen-suite-setup-2.3.1.exe
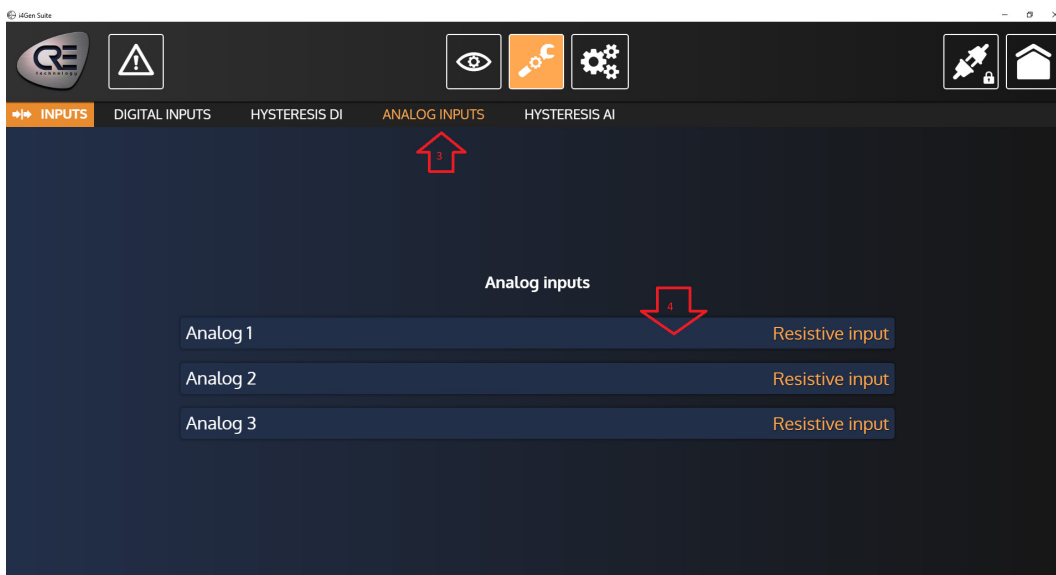

STEP 2:

From the software's desktop, click on the "Wrench" icon (top navigation bar / center icon).

STEP 3:

The Controller Static Settings screen opens. Click on the "Inputs" icon (top right icon).
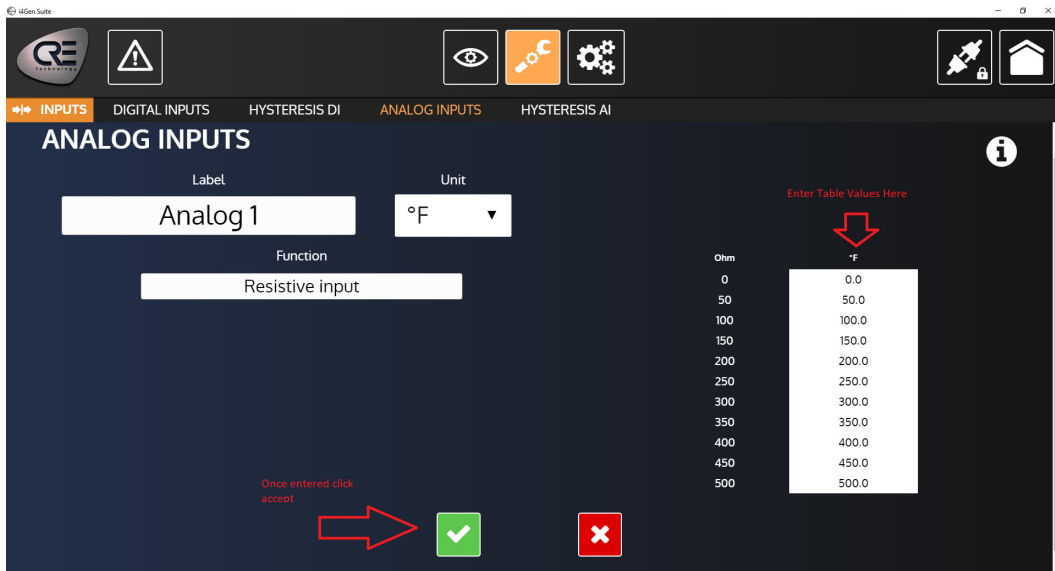

STEP 4:

The Analog Inputs screen opens. Select the correct analog input as follows:

Analog 1 = Oil Pressure switch

Analog 2 = Coolant Temperature switch

STEP 5:

After selecting an Analog Input from the previous screen, the Analog Input Settings page will open. The white box on the right hand side of the screen allows you to enter a temperature or pressure value from the "Settings for Murphy Senders" table shown below. After selecting your value, click the green checkmark icon as confirmation.

Settings For Murphy Senders

COOLANT TEMPERATURE SENDER TABLE					
ES2T-250/300			CRE Controller		
Ohm	° Fahrenheit	° Celsius	Ohm	° Fahrenheit	° Celsius
0	300	148.9	0	300	148.9
32.4	300	148.9	50	275.9	135.5
76.24	240	115.56	100	269.96	132.2
123.7	210	98.89	150	200.85	93.81
210	180	82.22	200	183.47	84.15
460	140	60	250	173.6	78.67
888	110	43.33	300	165.6	74.22
1431	90	32.22	350	157.6	69.78
1838	80	26.67	400	149.6	65.33
2382	70	21.11	450	136.26	57.92
			500	131.19	55.11

COOLANT TEMPERATURE SENDER TABLE

OIL PRESSURE SENDER TABLE			
ES2P-100		CRE Controller	
Ohm	PSI	Ohm	PSI
33	100	0	100
67	75	50	87.5
103	50	100	52.08
153	25	150	26.5
240	0	200	11.49
		250	0
		300	0
		350	0
		400	0
		450	0
		500	0

OIL PRESSURE SENDER TABLE

For additional training, watch CRE's YouTube webinar: https://www.youtube.com/watch?v=_1ZvC9MPh7A