

C0-04AD-2 Settings

Description

The C0-04AD-2 Setting dialog supports the customer to set up the scaling for the analog input values and assign DF memory addresses to store the scaled analog input values.

C0-04AD-2 Setting

4 ☒ Continuous Address

Channel	Input Range	Scale Range	Data Register	Resolution
CH1	Max: 10.0 Min: 0.0	Max: 100.0 Min: 0.0	5 <input checked="" type="checkbox"/> [] ...	0.0122085 6
CH2	Max: 10.0 Min: 0.0	Max: 100.0 Min: 0.0	<input checked="" type="checkbox"/> [] ...	0.0122085
CH3	Max: 10.0 Min: 0.0	Max: 100.0 Min: 0.0	<input checked="" type="checkbox"/> [] ...	0.0122085
CH4	Max: 10.0 Min: 0.0	Max: 100.0 Min: 0.0	<input checked="" type="checkbox"/> [] ...	0.0122085

7

X101 = On when module is not functioning
X102 = On when missing external 24VDC input

OK Cancel Help

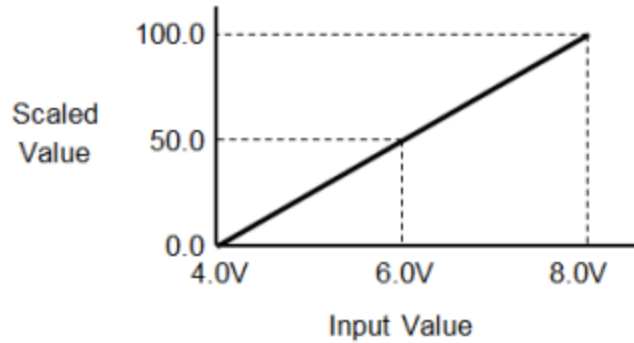
Graphic has been edited to fit Help File and may not be identical to actual graphic.

1 Input Range: Enter the maximum and minimum Input Range to scale.

2 Scale Range: Enter the maximum and minimum scaled values.

In the following example, the **Input Range** is set to 4.0 - 8.0V and the **Scale Range** is set to 0.0 - 100.0. This means input voltage 4.0V will be converted to 0.0 and input voltage 8.0V will be converted to 100.0. When input current is 6.0V, 50.00 will be entered in DF1.

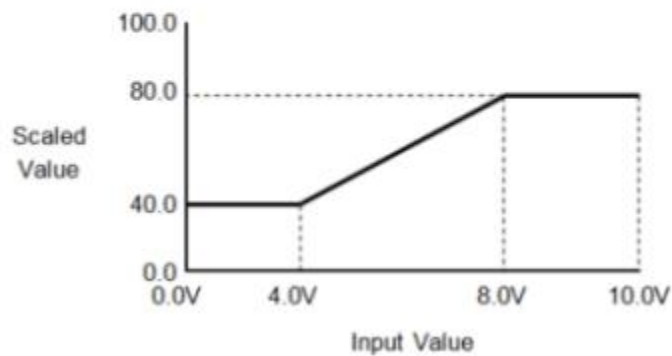
Input Range		Scale Range		Data Register
Max: 8.0 V	→	100.0	→	✓ DF1
Min: 4.0 V	→	0.0	→	Resolution: 0.0305213
<input checked="" type="checkbox"/> Enable Range Limiter				



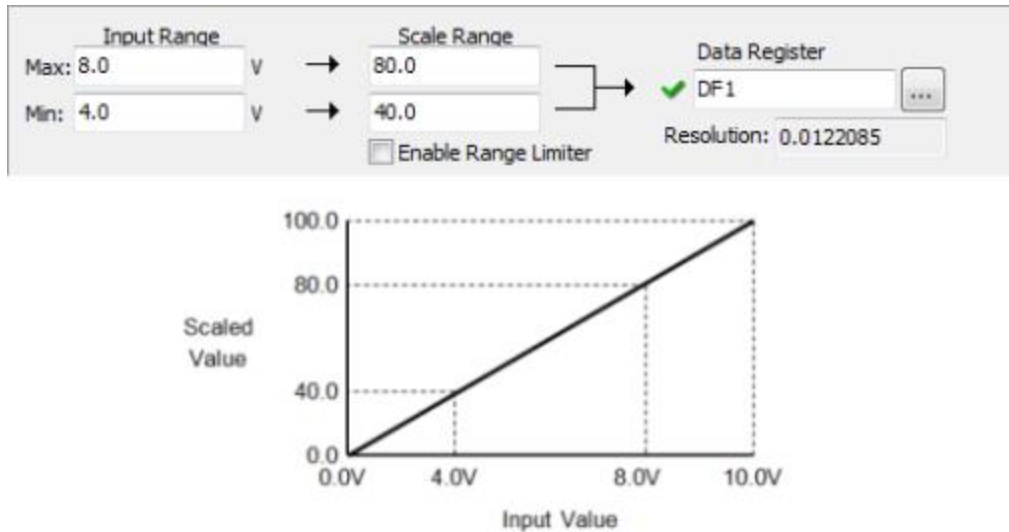
3 Enable Range Limiter: By checking. this option, the analog values that are outside of the **Input Range** will be adjusted to the minimum or maximum value of the **Scale Range**.

1. Enable Range Limiter is ON.

Input Range		Scale Range		Data Register
Max: 8.0 V	→	80.0	→	✓ DF1
Min: 4.0 V	→	40.0	→	Resolution: 0.0122085
<input checked="" type="checkbox"/> Enable Range Limiter				



2. Enable Range Limiter is OFF.



4 Continuous Address: If you want to assign continuous DF memory addresses to store the scaled analog input values, please check this option. In this case, you just need to assign a DF memory address to CH1. The DF memory address will be the starting address of those continuous DF memory addresses.

5 Data Register: Enter a DF memory address to store the scaled analog value. In the CLICK PLC, all analog data are handled as floating point numbers. So you can select only DF memory addresses.

6 Resolution: The CLICK Software automatically calculates the resolution of the scaled data according to the bit resolution of the analog input and the scaling setup, and displays the value here.

7 X bit Addresses: You can use these X bit addresses to monitor the status of this analog input module.

C0-04THM Settings

Description

The C0-04THM Setting dialog supports the customer to select the thermocouple sensors to measure temperature and/or voltage input ranges, and assign DF memory addresses to store the analog input values.

C0-04THM Setting

Module Setting

1 Channels to Use: 4 **2** Unit: ☐ C ☒ F **3** ☒ Enable Burn Out Detection **8** ☒ Continuous Address

Channel	4 Input Type	5 Input Range	6 Scale Range	7 <input type="checkbox"/> Enable Range Limiter	9 Data Register	10 Resolution
CH1	Type J (-310F to 1400F)	Max: 1400.0 F Min: -310.0 F	1400.0 -310.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.1
CH2	Type J (-310F to 1400F)	Max: 1400.0 F Min: -310.0 F	1400.0 -310.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.1
CH3	Type J (-310F to 1400F)	Max: 1400.0 F Min: -310.0 F	1400.0 -310.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.1
CH4	Type J (-310F to 1400F)	Max: 1400.0 F Min: -310.0 F	1400.0 -310.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.1

11

X101 = On when this module has watch dog timer error.
X102 = On when module is not ready

X103 = On when CH1 senses burnout or open circuit.
X104 = On when CH1 receives under range input.
X105 = On when CH1 receives over range input.

X106 = On when CH2 senses burnout or open circuit.
X107 = On when CH2 receives under range input.
X108 = On when CH2 receives over range input.

X109 = On when CH3 senses burnout or open circuit.
X110 = On when CH3 receives under range input.
X111 = On when CH3 receives over range input.

X112 = On when CH4 senses burnout or open circuit.
X113 = On when CH4 receives under range input.
X114 = On when CH4 receives over range input.

OK Cancel Help

 Graphic has been edited to fit Help File and may not be identical to actual graphic.

1 Channels to Use: Enter the number of channels you actually use.

2 Unit: Select the temperature unit between C (Celsius) and F (Fahrenheit) for the RTD input type.

3 Enable Burn Out Detection: When this option is enabled, this C0-04THM module reports if there is any burnout. You can check which input channel has burnout by monitoring the X bit

assigned to each input channel. Those X bits are listed on the bottom of this setup window. Disable this option if your calibrator doesn't like the output current from the C0-04THM module to detect burnout.

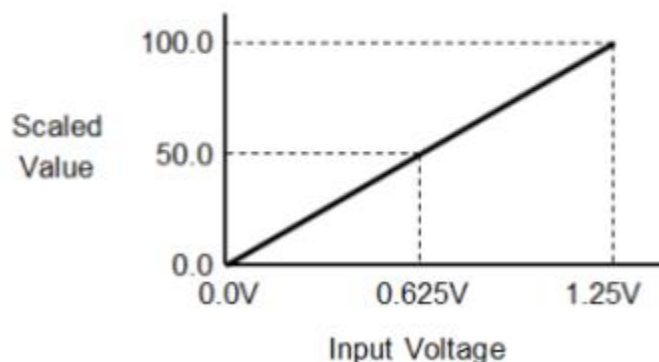
4 Input Type: Select a thermocouple sensor or voltage input range from the list.

5 Input Range: Enter the maximum and minimum Input Range to scale. (This option is available when you select a voltage input range as the Input Type.)

6 Scale Range: Enter the maximum and minimum scaled values. (This option is available when you select a voltage input range as the Input Type.)

In the following example, the **Input Range** is set to 0.0 – 1.25V and the **Scale Range** is set to 0.0 - 100.0. This means input voltage 0.0V will be converted to 0.0 and input voltage 1.25V will be converted to 100.0. When input voltage is 0.625V, 50.0 will be put in DF1.

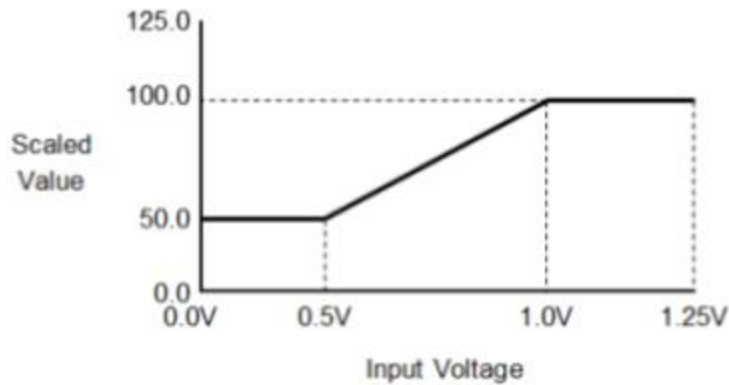
The screenshot shows a configuration window with three main sections: **Input Range**, **Scale Range**, and **Data Register**.
- **Input Range:** Max: 1.25 V, Min: 0.0 V.
- **Scale Range:** 100.0, 0.0.
- **Data Register:** A dropdown menu showing 'DF1' with a green checkmark and a 'Resolution: 80' field.
- An **Enable Range Limiter** checkbox is checked.



7 Enable Range Limiter: By checking this option, the analog values that are outside of the **Input Range** will be adjusted to the minimum or maximum value of the **Scale Range**. (This option is available when you select a voltage input range as the Input Type.)

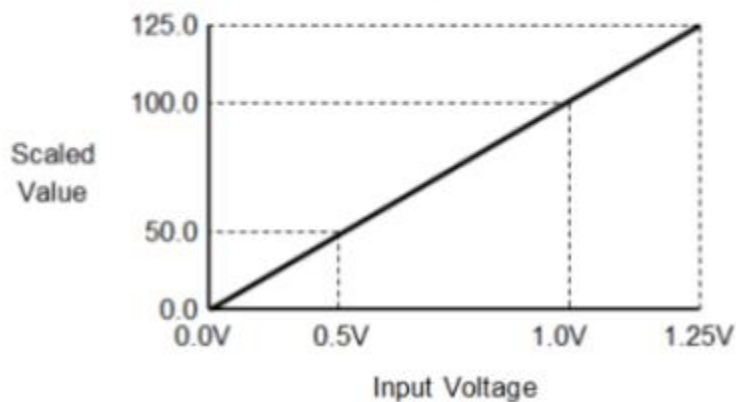
1. Enable Range Limiter is ON.

Input Range		Scale Range		Data Register
Max:	1.0 V	→	100.0	✓ DF1 ...
Min:	0.5 V	→	50.0	
<input checked="" type="checkbox"/> Enable Range Limiter				Resolution: 100



2. Enable Range Limiter is OFF.

Input Range		Scale Range		Data Register
Max:	1.0 V	→	100.0	✓ DF1 ...
Min:	0.5 V	→	50.0	
<input type="checkbox"/> Enable Range Limiter				Resolution: 100



8 Continuous Address: If you want to assign continuous DF memory addresses to store the scaled analog input values, please check this option. In the case, you just need to assign a DF memory address to CH1. The DF memory address will be the starting address of those continuous DF memory addresses.

9Data Register: Enter a DF memory address to store the scaled analog value. In the CLICK PLC, all analog data are handled as floating point numbers. So you can select only DF memory addresses.

10 Resolution: The CLICK software automatically calculates the resolution of the scaled data according to the bit resolution of the analog input and the scaling setup, and display the value here.

11 X bit Addresses: You can use these X bit addresses to monitor the status of this analog input module.