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SIDEKICK

Quick Start Guide

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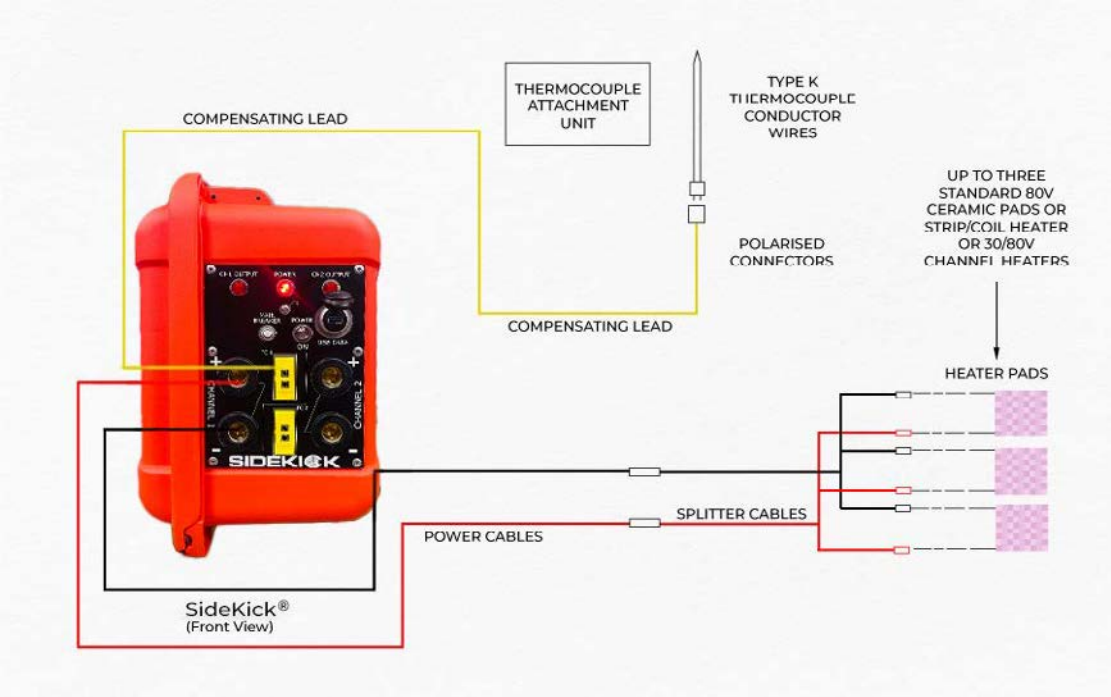
This document will show you the basic steps to quickly start a cycle and get running with the SideKick® .



Heater Connection Diagram

When the system starts, it will load a splash screen as shown below. Just touch the screen anywhere to enter the home screen.

Figure 1: Splash screen.

Once you have entered the home screen, you can select to run a pre-heat cycle (where you are going to heat your material to a temperature and hold it there until you stop it) or a post-weld mode (where you can enter a set of heating steps for the system to follow to heat treat your material. These two options are shown below.

Figure 2: Home screen

Pre-Heat mode selected

In pre-heat mode, each channel operates independently. So chose the channel you want to work with and follow these steps below to start your cycle: (you can run both at the same time, just follow these steps to start the second channel.) **The example below is for channel 1.**

Figure 3: Pre-Heat Screen

1. Make sure you have your output cables connected to your heating pad.

2. Make sure you have your power input cables from your welding machine or other power supply connected to the power input of the SideKick® .

3. Make sure you have the Type K thermocouple connected to the TC plug on the control plate, that is measuring the temperature of your material.

4. On the touchscreen, press on the button labeled “OFF” to start the channel. This will bring up a pop-up screen asking you to name the cycle.

5. In the pop-up window, give any name you want to the cycle. If you do not want a name, then simply press ok and the system will generate one for you using the current date and time on your controller.

6. Now that the cycle has started, press on the set point temperature and type in the temperature you would like to heat your material to.

7. The indicator light on the channel will show you when the system is calling for power to be put through your heating pad to heat it up.

8. Finaly, when you are done, press the “OFF” button which should now be red and say “STOP”, to stop the channel.

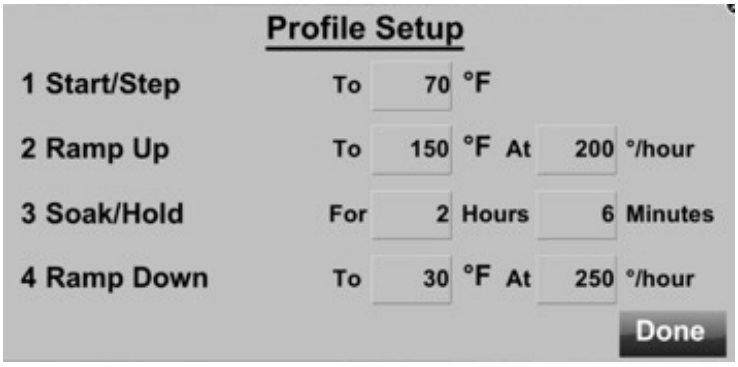
Post-Weld mode selected

In post-weld mode will make 1 or both channels follow a set of heating steps (a recipe) to heat the material at a controlled rate and allow it to soak for a set period of time. By default, the system will tun both channels together. If you only want to run 1 channel, then you need to use channel 1 and turn channel 2 into pre-heat mode as described in step 5 below.

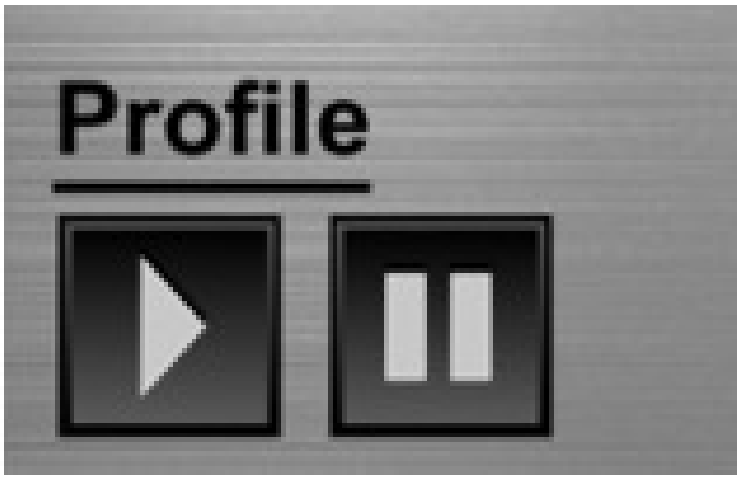
The steps below guide you through setting up a simple recipe and then starting the cycle. (If you want to run a more complex recipe, please see the device manual for this.) Here are the steps: **(Once you have created your recipe, it will remain in the system like that until you change it. So, you do not need to setup the recipe every time.)**

1. Press the menu button and then select “Simple Recipe” from the menu.

2. In the simple recipe screen, enter the values for the cycle you would like to run and press the "Done" button. In the image below, the cycle will heat up the channels to 70 degs as fast as possible. Once there, the cycle will unpause and then will ramp up to 150 degs at 200 degs/hour. It will then hold the temperature at 150 degs for 2 hours and 6 minutes. It will then ramp the material down to 30 degs at a rate of 250 degs/hour.
(Please go to the settings screen to set your holdback tolerances to pause the cycle if one or both the channels are beyond the upper or lower tolerance. This is especially needed for the start/step.)

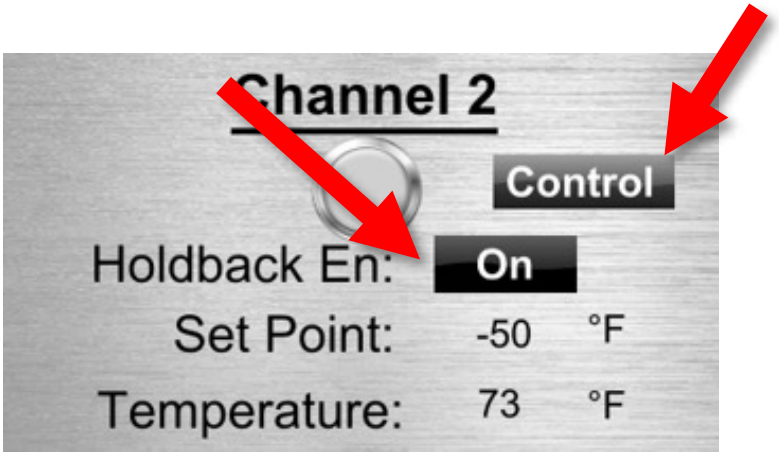


3. On the Post-Weld screen you can press the play button in the lower left corner to start the cycle. This will bring up a pop-up screen asking you to name the cycle.



4. In the pop-up window, give any name you want to the cycle. If you do not want a name, then simply press ok and the system will generate one for you using the current date and time on your controller.

5. If you are only running 1 channel or if you need to remove channel 2 from the heat cycle and set it to run in pre-heat mode so you can manually set the set point for it, simply press the “Control” button to change the text to “Manual”. (Note that this can be done at any time.) To make Channel 2 join the recipe again, simply press this button to make it “Control” again. When in Pre-heat mode, you can set the channel set point by pressing on the setpoint value and entering a number. You will also need to turn off the holdback alarm for this channel. Change the “Holdback En:” to “off”.



6. If at any time you need to pause the cycle (which only stops the ramping of the set point or the timer of the hold/soak step) you can press the pause button next to the play button. – To unpause the channel, press the pause button again.

7. To stop a cycle, press the stop button next to the pause button.

Generating a report

To generate a report of your heat cycle, you can download the data to a USB flash disk. Follow these steps below to do this.

1. Plug your USB drive into the USB slot on the SideKick® . – There will be a pop-up window asking if you want to download or upload, click cancel or wait for it to timeout and go away.

2. Then using the menu in either the Pre-Heat or Post-Weld screen (or from the Home page), navigate to the Data page.

3. On the data page simply press the “Download to USB” button to start the download.

4. Once the message below the button says it is safe to remove the USB memory device again, you will have the data on the drive and you can remove it.

5. You can use this drive to generate a report on your computer using the cooperheat report tool.