How to set the Harco controller.

- The Harco controller works on the rates of temperature climb or fall
- Plot a graph of how you want the kiln to fire (that is where (temp) you want to be when (time taken to get there) and how fast you want to fire (rate))
- The stages are known as cycles.
- To set cycles you need to know the temperature you want to be at before you want to change the setting and then how fast (drop or soak) you want to fire.
- Write down the cycles plus their end points and rate (how fast or slow per hour). For example this kiln will fire for 1 hr to 100.c, then up to 250.c in the next hour and the up to 1270 at the rate of 250.c per hour. This will take another 4+ hours. It will then soak at 1270.c for 30 minutes before switching itself off.

The cycles would be

Cycle Temp/end set Rate
- Cycle1 0-100 100.c per hour
- Cycle 2 100-250 150.c per hour
- Cycle 3 250-1270 250.c per hour
- Cycle 4 1270-1270 for 30 minutes

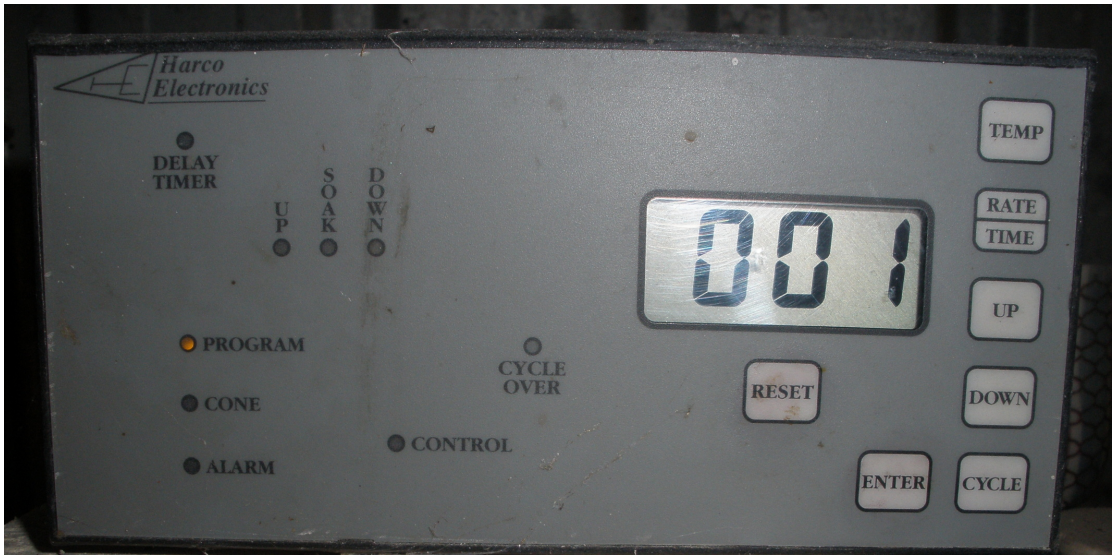
How

1. Turn on power at switch. The controller will read the ambient temperature in the kiln.
2. Push Reset
3. This shows the last program used number. Change this now by using the UP or Down. (#1) When adding a new program select the next free number. That is the next unused program. The Eight stage controller has 8 different programs etc.
4. When number selected press Enter.
5. The screen will now show 000 which is where the harco number (a bit like a cone number) Do not set this. Leave as 000.
6. Push Enter again to set cycles (1-8). See (#2)
7. To set cycles. See(#3)
- Push and hold the Temp button.
- Release the Temp button and by using the UP button set the end temperature (of cycle) at 100.c. Then press Enter.
- Now push and hold Rate/Time button
- Release this button and by using the Up set the rate by setting the Rise per hour (100.C in this case)
- Push Enter. This sets the rate selected.

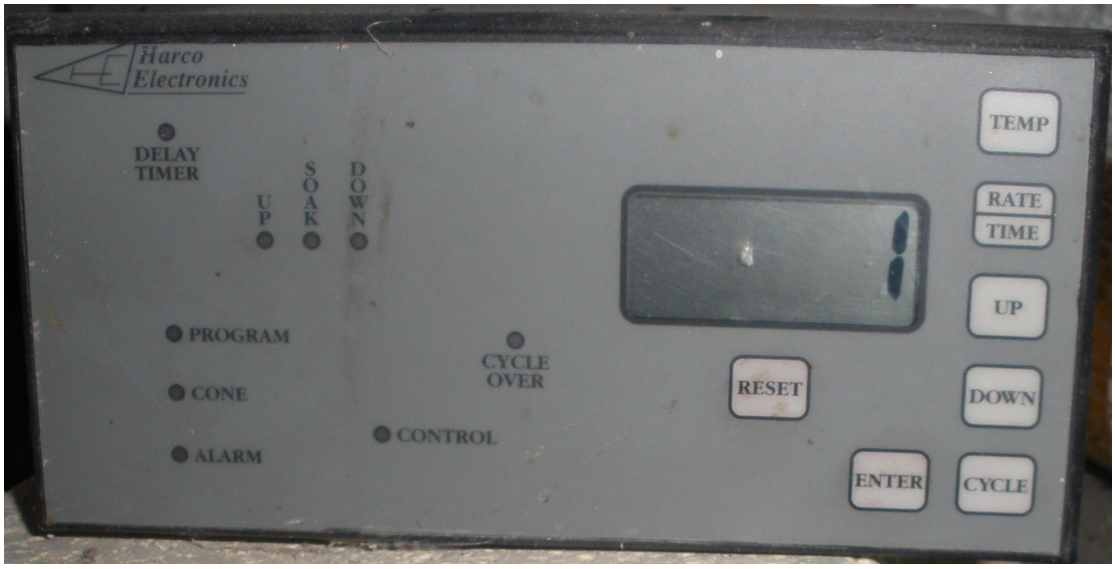
8. Now push and release the Cycle button to set the next cycle.

9. Now 2 will appear on display.
10. Now Repeat step 7 for cycle 2.
- Push and hold the Temp button.
- Release the Temp button and by using the UP button set the end temperature (of cycle) at 250.c. Then press Enter.
- Now push and hold Rate/Time button
- Release this button and by using the Up set the rate by setting the Rise per hour (150.C in this case)
- Push Enter. This sets the rate selected.
11. Now repeat step 7 for cycle 3.
- Push and hold the Temp button.
- Release the Temp button and by using the UP button set the end temperature (of cycle) at 1270.c. Then press Enter.
- Now push and hold Rate/Time button
- Release this button and by using the Up set the rate by setting the Rise per hour (250.C in this case)
- Push Enter. This sets the rate selected.
12. Now repeat step 7 for cycle 4.
- Push and hold the Temp button.
- Release the Temp button and by using the UP button set the end temperature (of cycle) at 1270.c. Then press Enter.
- Now push and hold Rate/Time button
- Release this button and by using the Up set the soak time in minutes by setting the soak (30 minutes in this case)
- Push Enter. This sets the rate selected.

Push enter again and the whole program is set.



#1 Select next available program number



#2 Select cycle

#3 Select temperature