



SunEarth-Steca TR0301U Hidden Menu – v2

The Operating Instruction Manual does not cover this hidden menu.

WARNING! Adjusting settings incorrectly can result in poor system performance and may result in damage to solar thermal system components. These settings should only be adjusted by a qualified technician with thorough knowledge of the workings and components of solar thermal systems.

To activate or access the hidden menu:

- hold all three buttons down for ~5 seconds until the screen changes.
- The screen should show “on” and flashing between T1 and T2. If it doesn’t work, try again, all three buttons at the same time for 5 seconds

In the hidden menu you can adjust the following:

Menu Item	Default (°F)	Description
on	16	Differential “on”- turns the pump on when the temperature T1-T2= 16F. Display flashes between T1 and T2. (See the Operating Instructions 7.1 Automatic storage tank charging) <i>oFF+4F <=on<=100F</i>
oFF	8	Differential “off”-turns the pump off when the temperature T1-T2=8F. Display flashes between T1 and T2. (See the Operating Instructions 7.1 Automatic storage tank charging) <i>0< oFF<on-4F</i>
HYS	6	Hysteresis for MAX tank temperature T2- turns the pump off when T2=140F (0 ~ 95°C), turns the pump on when T2=134F (0 ~ MAX T2/2). Display flashes MAX T2. (See the Operating Instructions 7.2 Automatic charging shutdown) <i>32F~203F</i>
on	266	Over temperature function “on”- turns the pump back on when T1=261F Display flashes heat waves on the collector and T2. (See the Operating Instructions 7.3 Automatic pump blockage) <i>176F<=on<=oFF-4F</i>
oFF	260	Over temperature function “off”- turns the pump off when T1=266F. Display flashes heat waves on the collector and T2. (See the Operating Instructions 7.3 Automatic pump blockage) <i>on+4F<=oFF<=392F</i>
oFF	95	Holiday/vacation setting- turns the pump on periodically recirculating fluid to the collectors cooling the tank until T2=95F. Display flashes umbrella and T2. (See the Operating Instructions 7.5 Holiday Function). <i>68F<=oFF<=MAX T2-20F</i>
on	32	<i>Minimum temperature of collector- turns the pump on</i> <i>32F<=on<= over temperature on-20F</i>

T1-collector sensor, T2-tank sensor, T3-optional informational sensor-does not effect operation of the controller

Within the hidden menu, the graphical display on the screen will indicate what you are adjusting.

- Use the arrow keys to scroll up and down through the menu to get to the function that you want to change. The graphical display on the screen will indicate what you are adjusting (see table above).
- Hold the “SET” button down for ~3 seconds to access adjustment of the function value, just like the main menu described in the manual (see 8.2 Setting the controller) . The screen will change and will flash between the number set in the controller and the function being changed.
- Use the arrow keys to adjust the number.
- Use the “SET” button to set the number into the software. The controller has EPROM memory so settings will be save even when the controller is powered off.

Note: If you hit the down arrow key too many times (6 in a row starting from differential on) scrolling through the above menu items, it will exit from this menu to the main screen. If you wait too long of a time between hitting buttons in this menu, it will kick you out to the main screen. Just hold all three buttons down again for 5 seconds to get back in.

Example: Decrease differential “off” to 4F.

- Hold all 3 buttons down for 5 seconds. Screen shows “on” and flashes between T1 and T2.
- Hit the “down” arrow key once to get to differential “off”. Screen shows “off” and flashes between T1 and T2.
- Hold the “SET” button down for 3 seconds. Screen flashes between 8F and “off with T1 and T2”.
- Press the “down” arrow key to lower the setting until the number reaches 4F.
- Hit the “SET” button to set it into the controller.