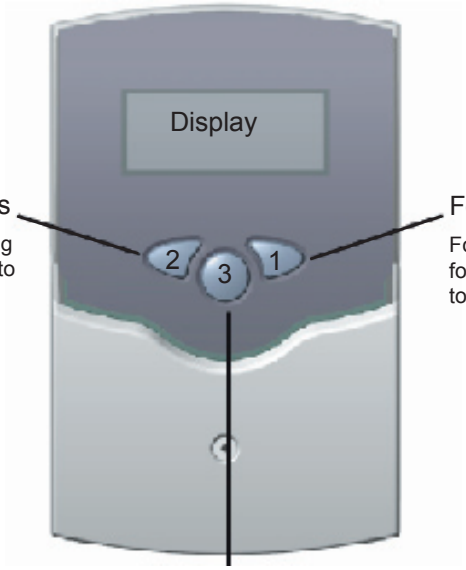
Operation and Programming the Regusol Controller



Operating Mode and Display

Forward or backward buttons will indicate following information:
COL: Collector sensor temperature
TST: Tank Temperature
hP: Operating hours counter

Programming Mode

To begin programming mode press forward key to hP display.

Press and hold forward key 1 in “hP” mode for 2 seconds.

Menu mode displays next indicator (DT 0) and may now be scrolled through rest of programmable settings using keys 1 or 2 (forward or backward through the entire menu).

Values in display settings may be changed by pressing the Set key 3. “Set” icon will blink while in programming mode. Raise or lower values with keys 1 or 2. Press set button once more to complete change. “Set” icon will stop blinking.

Program Changes

“DT 0” differential turn on set point
The first program display will be “DT 0” differential turn on set point. DT 0 is set at 12 ºF. This indicates what turn on temperature the collectors must be above the tank to begin solar circulation. No change is necessary.

“DT F” differential turn off set point
The second indicator will be “DT F” differential turn off set point. DT F is set at 5 ºF. This indicates what turn off temperature the collectors must be above the tank for solar circulation to end. No change is necessary.

Program Changes

Mode of Operation ON / OFF / AUTO “HND 1”

Scroll through menu to “HND 1” display. This is near the end of the program display menu. This is for the setting switch ON, OFF, or AUTO that allows the controller the function of operation. It is a service operation switch.

ON position energizes the pump to circulate at all times.
OFF position keeps the pump from circulating.
AUTO allows the controller to operate the pump based on the differential temperatures (normal operation).

Default setting is AUTO. To change press Set key 3. Press key 1 or 2 to change into ON, OFF or AUTO mode. Press set key 3 again to complete change and before moving into the next menu.

Always leave the controller in AUTO for normal solar collection cycling.

“S MX” storage maximum set point
“S MX” is set at 140 ºF. This setting can be turned up only if there is a anti-scald valve installed on the DHW system.

To change press Set key 3. Press key 1 to increase or 2 to decrease the storage maximum temperature. Press set key again to set change.

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Program Changes

The factory settings for the following displays are suitable for all solar domestic hot water heating. For more information on these settings read the control manual included with the Regusol 130.

“EM” limit collector temperature
Factory setting: 285^{o} F

“OCX” system cooling
Factory setting: OFF

“OCN” Minimum collector limitation
Factory setting: OFF

“OCF” antifreeze function
Factory setting: OFF

“OREC” option recooling
Factory setting: OFF

“O TC” tube collector special function
Factory setting: OFF

“OHQM” heat quantity balancing
Factory setting: OFF

The settings for the following displays are as follows.

“LANG” language
Factory setting: En (english)

“UNIT” Temperature in degrees
Factory setting: FAH (fahrenheit)

“PROG”
Controllers program

“VERS”
This indicates the program version