Pumped (Split) Systems:
Kanitti Solar Controller

Chromagen
Solar & Energy Solutions

Part	Solar Controller
1	Panel LED indicator (red)
2	Tank LED indicator (green)
3	Panel sensor lead connection
4	Tank sensor lead connection
5	Controller power lead
6	Pump power lead connection

The solar controller is housed within the solar pump station assembly

To ensure the controller is correctly connected please ensure the following is completed:

1. Locate the tank sensor lead and plug it into the "Tank" socket (4) under the controller
2. Locate the panel (collector) sensor lead and plug it into the "Panel" socket (3) under the controller
3. Ensure the tank is filled with water then plug the pump power lead into the GPO outlet (6) on the base of the controller
4. Plug the controller power lead (5) into the mains GPO and turn ON.
5. If the temperature at the panel (collector) is 7°C or greater, the "Tank" LED light on the controller will illuminate "green"
6. If the temperature of the panel (collector) and tank is equal, no lights will be ON but the system is connected
7. Ensure the pump station cover is refitted.
   NOTE: The solar controller is rated IP20 and must be protected from environmental exposure with a cover

NOTE: If the power cable is damaged the controller should be replaced, not repaired.

Normal Running Codes

NO LIGHTS: Pump not activated, tank-panel difference smaller than 7 degress.
GREEN LIGHT ON: Pump activated, normal operation and difference >7 degress.
RED LIGHT ON: Boil protect, tank has reached 80 degrees, pump not activated
RED & GREEN LIGHTS ON: Freeze protect, panel temp <=5 degrees, pump activated

Fault Codes

Red Light Flashing Plus Continuous Beeping: Panel Sensor Lead Fault / Disconnected
Green Light Flashing Plus Two (2) Beeps: Tank Sensor Lead Fault / Disconnected
Red & Green Lights On Plus Three (3) Beeps: No Solar Circulation Detected
Green Light On Plus Four (4) Beeps: Sensor Outside of Normal Range

Please note if you happen to have a earlier model of the solar controller the panel and tank LED lights are located inside the controller. The beeping function was added to the controllers in October 2015. Controllers prior to this will have LED indicators only.

Most errors are caused by damage to the sensor leads. If you need to extend or repair the sensor lead you must solder and shrink seal the join or use a waterproof connector.

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