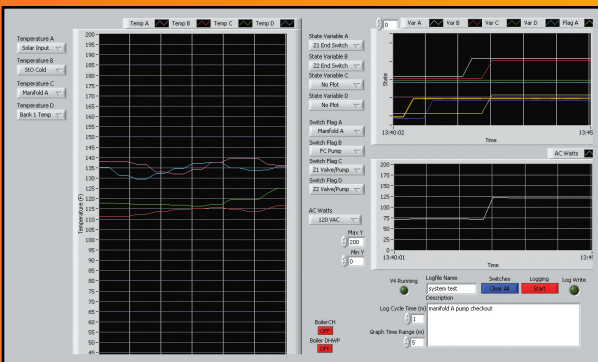


# A REVOLUTION IN SOLAR HEATING

**SolarLogic  
has removed  
the complexity  
from solar heating.**

## Solar Simplified:

- SLIC Controller uses a file generated by the SLASH-D design program
- Instant system start up
- “Plug and Play” technology eliminates costly wiring, programming and fine-tuning



Diagnostics Screen



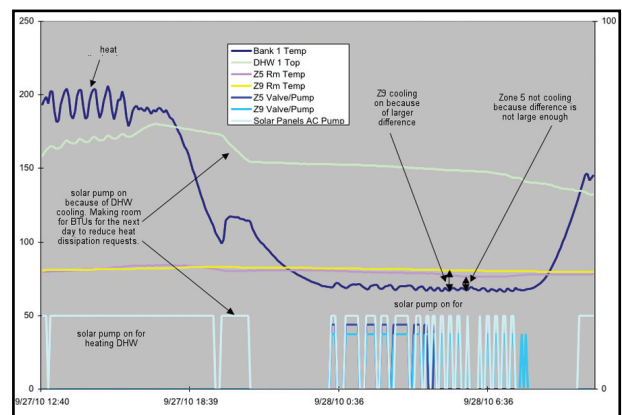
Multi-stage Zone Control

SOLARLOGIC, LLC  
3212B RICHARDS LANE  
SANTA FE, NM 87507  
505.577.4633  
INFO@SOLARLOGICLLC.COM  
WWW.SOLARLOGICLLC.COM



## (SolarLogic Integrated Controller)

- Combination hardware/software system controller
- Replaces all conventional controls
- Internet-delivered benefits:
  - Remote monitoring
  - Diagnostics
  - Remote system operation
  - Data logging, and more
- No programming required



Detailed analysis of logged data

**All the solutions in one smart algorithm –**  
the outcome of decades of experience  
with solar heating system control.

## SLIC Features:

- Replaces all conventional hardware, including setpoint and differential controllers, switching relays, transformers, zone valve controls and DHW recirculation controls

The SLIC enables home-run wiring for pumps, zone valves, thermostats and sensors, all to clearly labeled terminals in one enclosure; This reduces installation error, space requirements and labor and material costs.

- Software requires no programming to operate and is compatible with most system configurations (based on SolarLogic's SLASH-D design process)

Instead of programming multiple controls, custom-wiring them and setting up parameters one by one, the SLIC is simply booted up and begins running the system using a data file from the SLASH-D design process as its starting point. After start up, the system can be easily adjusted from user-friendly computer screens to suit the homeowner's lifestyle – or it can be just left as is.

- Comes with simple, easy to use room thermostats

No programming is needed at the thermostats – you simply set the room temperature, select “Solar-Only”, “Normal”, or “Auxiliary” operating mode, and walk away.

- “Solar-Only” Mode for maximum energy savings can be set per zone or for an entire building

While normal operation strikes a balance between energy savings and comfort, “Solar Only” mode prioritizes energy savings while “Auxiliary” mode prioritizes comfort – and each of these modes can govern the entire system or a single zone. Now the end-user doesn't have to be an engineer to achieve their own optimal system performance.

- 2-stage solar heat banking, DHW high and low setpoints, DHW recirculation controls, and more are already accounted for in intelligent software design.

The outcome of decades of experience with solar heating system control, the SLIC is all the solutions in one smart algorithm. The SLIC even automatically makes use of waste heat left in the system piping after a heat call is satisfied.

- Adjust parameters from any computer over the internet

With intuitive screens, indicator lights and menus, the installer, service technician or homeowner can adjust room temperatures, operating modes, hot water temperature, or warm up the swimming pool from any internet connection anywhere in the world.

- Log files that monitor over 250 data points - Automatically and Continuously

Since the SLIC automatically logs temperatures throughout the system, a degree of transparency previously unheard of is available – the end user can see trends at a glance and the service technician can “check in” on the system and make sure all is well.

- Commission and diagnose the system remotely, reducing on-site labor and service costs

The SLIC's Diagnostic Mode can be used to operate the system remotely, isolating and testing each component, to verify correct operation at start-up and to troubleshoot down the road. This prevents costly multiple service visits – the technician is on site after a problem is diagnosed with a proper replacement part.

## SLIC Capabilities:

### The SLIC can control the following components:

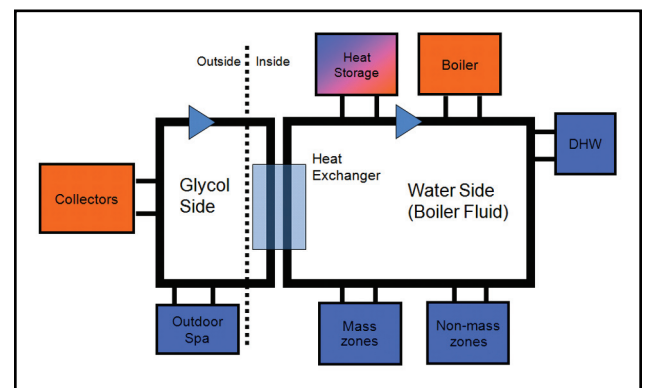
- 10 Hydronic Heating Zones of any type on three distribution manifolds; zone valves or zone pumps
- 1 Heat Storage Tank
- 1 DHW Tank with one or two coils (Solar and Auxiliary)
- 1 Primary Loop / Flow Center
- 1 Backup Hydronic Heat Source
- 3 Banks of Solar Collectors
- 1 Swimming Pool
- 1 Spa
- 2 Ice-Melt Zones
- 1 Domestic Hot Water Recirculation Pump

### Providing the following functions:

- Solar and backup space heating with 2-stage control for highest efficiency
- Solar and backup domestic hot water
- Solar heat storage in tanks or in floors
- Solar and backup pool and spa heating
- Solar and backup ice-melt
- Night-sky radiant cooling for zones, DHW and heat storage tank
- Waste heat recovery from system piping
- Setback control for thermostats

### The SLIC measures continuously and can determine:

- Dozens of temperature points
- Status of all valves and pumps
- Electrical power consumed by valves and pumps
- Fluid pressures
- Glycol pH
- Primary loop flow
- Net solar energy delivered
- Net BTU's of cooling delivered
- BTU's lost through DHW recirculation



Plumbing Diagram