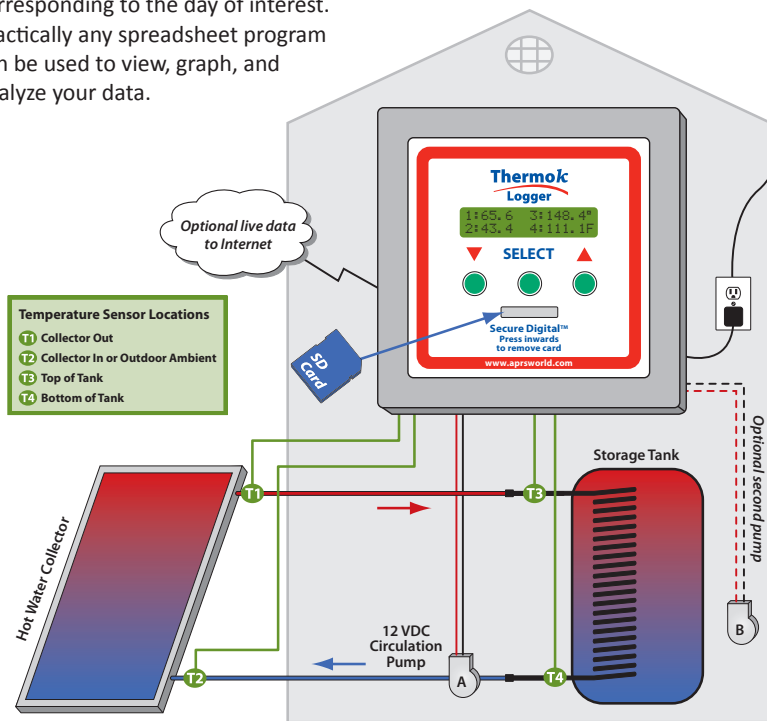


# Thermok Logger

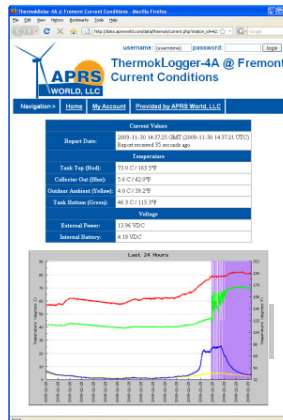
## Differential Temperature Controller with Data Logging

The **ThermokLogger-4A** is designed to provide an affordable and easy-to-use differential temperature controller for solar heating systems. It is a four channel 10K thermistor display and data logger with programmable solid state relay outputs.

The **ThermokLogger-4A** records directly to a Secure Digital (SD™) card to provide convenient data downloads. To use the recorded data, simply insert the SD™ card into a card reader attached to the USB port on your computer (Windows, Macintosh, and Linux). To view and graph the data, click on the spreadsheet corresponding to the day of interest. Practically any spreadsheet program can be used to view, graph, and analyze your data.



APRS World offers our **'World Data'** service free for our customers. Using an optional internet gateway module, our products can send live data to our hosted data service. Using your web browser you can view live and historical performance data and graphs. This allows your customer to see how their system is performing and allows you to troubleshoot the system without getting in your truck.



### Thermok Logger

#### Measurement Inputs

Four 10K Thermistor  
Typically measure -40°C to 150°C (-40°F to 302°F)  
Screw terminals and RJ-45 wired in parallel

Pulse Counter  
Screw terminals

#### User Interface

16x2 Character LCD, backlight  
Three push buttons  
Temperatures update once per second  
Relay / Alarm status visible

#### Logging

Logs to Secure Digital™ or Multi Media Card™  
Logs at 10 to 16,000 second intervals  
Date and Time stamped measurements  
Data files in Comma Separated Vertical (CSV)  
One data file per day  
Includes 2 gigabyte Secure Digital™ card  
Supports 2 gigabyte or smaller cards

#### Power

8 to 32 volts DC  
2.1x5.5mm coaxial connector or 2 position screw terminal  
Requires external power

#### Relay / Alarm Outputs

2 x DC relay, solid state, 6 amps @ 39 volts DC max  
Independently programmable for:  
Differential Control  
On above temperature set point  
On below temperature set point  
Always On  
Always Off

#### RS-232 Communications

ASCII or binary data, selectable  
Screw terminal, 4 position  
Data compatible with our World Data internet service  
9600 to 57600 baud  
Can enable / disable Morningstar Tri-Star based on temperature

#### Physical

Mounts in double gang electrical box or panel  
3.7cm (1.45") deep

