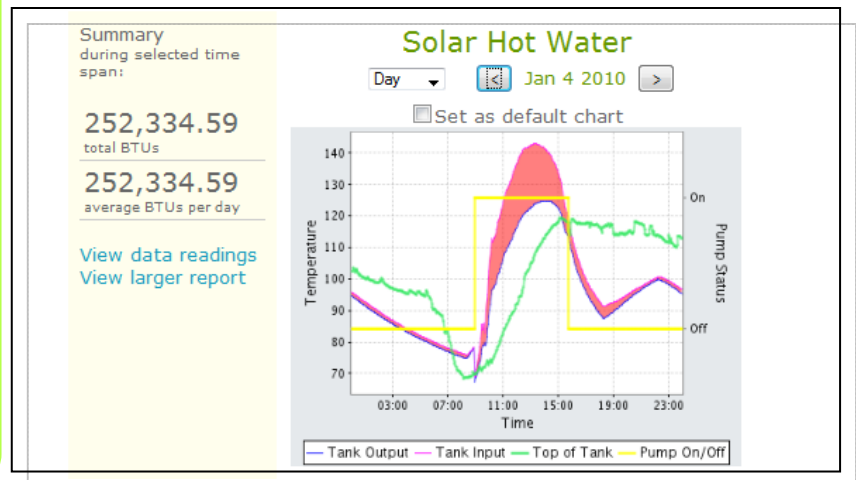DATA SHEET

Apollo1 Energy Monitor

DEVICE FEATURES
- Compact Size (5.5"x 4"x 1.4")
- Easy to Install – Plug and Play
- One Unit Monitors Solar Thermal and PV[*]
- Modular Sensor Design
- "ZERO Config" Setup (patent pending)
- Universal Interface for Solar Thermal
- Universal Interface for PV[*]
- Solar Thermal Sensors:
  - 3 Temperature Inputs (Tank Input, Tank Output, Top of Tank)
  - 2 A/C Load Inputs (pump status, re-heat coil status)
  - 1 Grundfos Flow Sensor Adapter Cable
  - Pressure Switch Input
- PV Connection via standard Ethernet Cable
- Standard Ethernet connection to existing router
- LEDs to indicate local status
- Interfaces to SunReports Web 2.0 portal

WEB PORTAL FEATURES
- Displays current and past performance
- Calculates BTU usage
- Integrates data into one easy to read chart
- Customer and Installer Portals
- Configurable Alerts[**]
- Summary of System Performance[**]

Solar Hot Water

Summary during selected time span:

252,334.59 total BTUs

252,334.59 average BTUs per day

View data readings
View larger report

DESCRIPTION
The Apollo1 Energy Monitoring Device provides "performance based" residential energy monitoring for both Solar Electric (PV) and Solar Thermal (HW). The ultra-low-cost solution brings the benefits of web-based monitoring within reach for all customers. With the 'ZERO-Configuration' setup, installation is simple and requires no on-site configuration or networking experience. Simply plug in the sensors and connect to an existing router and the unit self-configures to begin sending data immediately. The Apollo1 automatically interfaces to the SunReports Web2.0 portal via standard Ethernet to present real-time and historical data in an easy to understand format. The SunReports design philosophy is to "make energy easy", easy to install, easy to use, and easy to understand.

Installer and Customer web portals are accessible anywhere there is a web-browser and an Internet connection. No application software required. Access SunReports monitoring from home, office, or around the world via any web-enabled desktop computer, laptop, netbook, or smart phone. The same unit is capable of monitoring solar PV, solar Hot Water, and solar Pool Heating systems. Installers can use the Installer Portal to monitor all their installations from one remote location.

Apollo1 Energy Monitor

INCLUDED
- 1 Apollo1 Device
- 1 Ethernet Cable
- 1 Inverter Cable
- 2 A/C Load Cables (CT1 & CT2)
- 1 Grundfos Flow Sensor Adapter Cable
- 1 Triple Temperature Sensor Cable
- 1 Pressure Switch Cable*
- 1 A/C Adapter (universal input, US plug)
- Quick Start Guide

* Pressure Switch Sold Separately

OPTIONAL ACCESSORIES
- Communication Package including Power Line Carrier (PLC) network bridge
- Pressure Switch
- Grundfos VFS Flow Sensor

SPECIFICATIONS
Input Power:
- 5VDC, 1A

AC Adapter Input:
- 100-240VAC 50/60Hz

AC Adapter Plug:
- US 2-prong

Physical Dimensions:
- 5.5 x 4 x 1.4in
- (139.7 x 101.6 x 35.6mm)

Weight
- 1.8lbs (0.82kg) with cables

Housing Material:
- Flame retardant ABS plastic

Housing Rating:
- UL 94-5VA

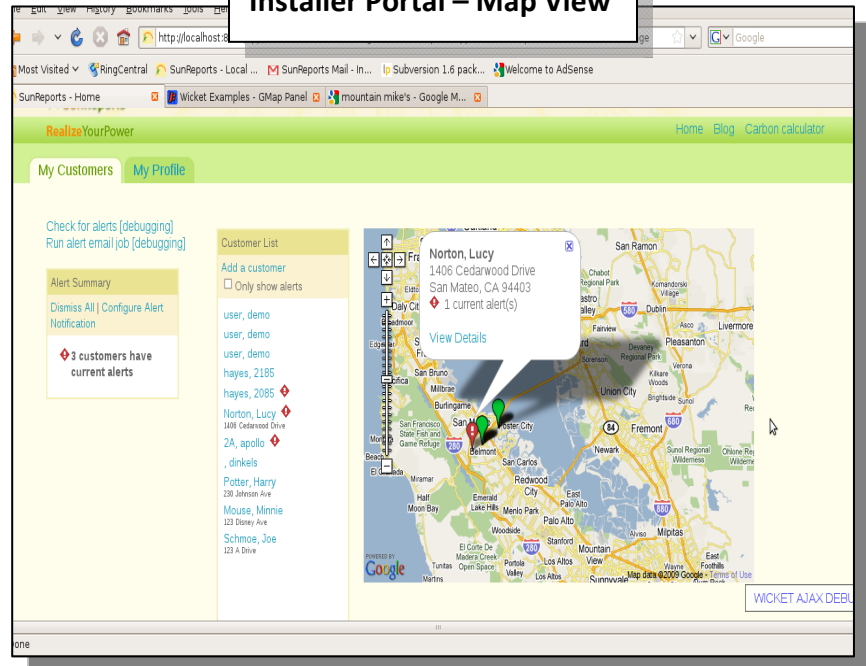Regulatory:
- FCC-15 Class A

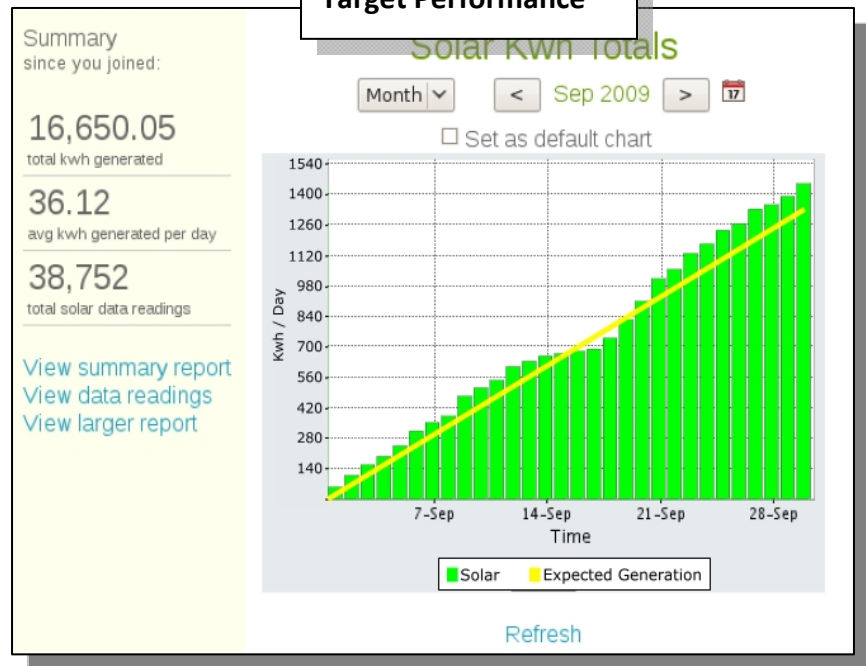Operating Temperature
- 0-40°C (32-104°F)

Cable Lengths:
- 14' Ethernet Cable
- 14' Inverter Cable
- 5' A/C Load Cables (CT1 & CT2)
- 9' Triple Temperature Sensor Cable**
- 4' Pressure Switch Cable
- 6' A/C Adapter

** 3' common plus 6' for each sensor

Installer Portal – Map View

Target Performance

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