

Sentinel Power

Wi-Fi® Energy Meter

802.11b, 2.4GHz Radio

Single or Three Phase

Line powered

Split Core Current Transducers



Applications

The Sentinel Power is an innovative solution that allows electricity consumption to be monitored and thus enables financial savings in various segments:

- Industry
- Supermarket Chains
- Data Centers
- Schools
- TV Studios

Features

The complete solution includes the sensor, wireless transceiver, database and a web-based portal.

- Uses the Wi-Fi Infrastructure
- Web-based Data Visualizationⁱ
- No Battery Needed
- On-board Flash Memory
- Alarming/Alerting Systemⁱⁱ
- Audit Trail of the Sensor Data

Benefits

- Establish the breakdown of energy use (where does it all go?)
- Allocate energy wastes to users
- Determine efficiency of equipment
- Audit before & after energy use for retrofit projects
- Manage the load profile (peak demand)
- Maintenance and Enterprise Asset Management

Technical Specifications

Sensor Unit

Nominal Current	0 to 2000 A
Nominal Voltage	90 to 480 ⁱⁱⁱ V _{rms}
Accuracy (IEC 62053)	Active energy class 1 Reactive energy class 3
Frequency	50-60 Hz
Power Supply	Line powered (or external 24 VDC power supply for SP2)
Network Configuration	3 phase Star or Delta Single phase
Data Storage	Up to 10 days of sensor data at sampling rate of once per minute
Data Visualization & Reporting	Desktop Software, Web Hosted or Enterprise Portal
Alerting System	Email or cell phone alerts when sensor crosses set threshold values (depending on Software version)
Physical dimensions	4.4"L X 2.1"W x 1.4"H (112mm x 54mm x 35mm)
Regulatory	FCC (USA) CE (EU) EN 50178:1997 IEC 61010-1:2001

Wi-Fi

Radio Protocol	IEEE 802.11b
Supported rates	1, 2, 5.5, 11 Mbps
Typical power emission	33mW
Security	WPA2-PSK (AES) WPA1-PSK (TKIP) WPA1+2 PSK (AES+TKIP) WEP (40bit, 104bit)

Networking

Addressing	IP v4 static or DHCP address
Protocol used to communicate with server	SNMP/UDP, UDP
Ports	161-163 on both server and sensor

About Aginova

Aginova Inc. is a wireless sensor network solution provider. The Company will provide the packaged wireless sensor hardware with the data acquisition and management software using leading-edge Internet and Web technologies.

Find more information on our website www.aginova.com.

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ⁱ Available separately: Desktop Software, Web Hosted Portal or Enterprise Portal

ⁱⁱ Available only with Web Hosted, Enterprise and Desktop Software Gold Edition

ⁱⁱⁱ Depending on version