

# Temperature Sentinel Micro

## Wi-Fi® Based Sensor Solution

- 802.11, 2.4GHz Radio
- Battery-Powered
- Internal temperature sensor



## Applications

The Sentinel products are ideal for storage applications where continuous monitoring is required.

- Health Care
- Food Storage
- Transportation
- Ware Housing
- Server Rooms
- Military

## Features

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

- Form Factor – 2.4" x 2.4" x 0.9"
- Web-based Data Visualization<sup>i</sup>
- Up to 3 Years Life using a single Lithium AA battery<sup>ii</sup>
- Alarming/Alerting System<sup>iii</sup>
- Uses the Wi-Fi Infrastructure
- Audit Trail of the Sensor Data

## Benefits

No wireless receiver is necessary as it uses the existing Wi-Fi infrastructure – therefore the overall cost is significantly lower; full sensor audit trail; data can be viewed remotely from any computer using a web browser; sensor units are battery operated therefore portable; sensor units can last up to 3 years using a single Lithium AA battery (\*).

## Technical Specifications

### Sensor Unit

Data Storage	At least 24 hours 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)
Power supply	Using a single AA 3.6V Lithium battery - Expected life of up to 3 years with measurements every minute (*).
Operating conditions	Operating temp. range: 0°C to +70°C Operating humidity range 0% RH to 90% RH non-condensing
Physical dimensions	2.4"L x 2.4"W x 0.9"H (62mm x 62mm x 22mm) Weight: 2.0oz (57g)
Regulatory	FCC
Typical power emission	33mW

### Wi-Fi

Radio Protocol	IEEE 802.11 b/g compatible (g-only not supported)
Supported rates	1, 2 Mbps only
Security	WPA2-PSK (AES) WPA1-PSK (TKIP) WPA1+2 PSK (AES+TKIP) 802.1x EAP-FAST 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

## Probes

Internal Temperature Sensor	Range: 0°C to 70°C Resolution: 0.1°C (0°C-40°C) Accuracy: < ±0.5°C
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## 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](http://www.aginova.com).

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<sup>i</sup> Available separately: Desktop Software, Web Hosted Portal or Enterprise Portal

<sup>ii</sup> Battery Life varies depending on network conditions and sensor settings

<sup>iii</sup> Available only with Web Hosted, Enterprise and Desktop Software Gold Edition