

# Sentinel Nomad

## Wi-Fi® Based Sensor Solution

802.11, 2.4GHz Radio

Battery-Powered

Rugged, for outdoor applications



## Applications

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

- Health Care
- Food Storage
- Transportation (Cold Chain)
- Ware Housing
- Military

## Features

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

- Small Form Factor
- 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 5 years using a single Lithium AA battery;

## Technical Specifications

### Sensor Unit

Data Storage	At least 40 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)
Power supply	Using a single AA 3.6V Lithium battery pack - Expected life of up to 5 years with measurements every minute
Operating conditions	Operating temp. range: -40°C to +70°C Operating humidity range 0% RH to 99% RH
Physical dimensions	1.3"L x Ø1.9" (32mm x Ø 47mm) Weight: N/A oz (N/A g)
Regulatory	FCC, CE, EN12830, EN61010-1
Typical power emission	33mW

### Wi-Fi

Radio Protocol	IEEE 802.11b (b/g compatible, g-only not supported)
Supported rates	1, 2, 5.5, 11 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

## Sensor accuracy

Internal Temperature Sensor	Range: -40°C to 70°C Resolution: 0.1°C Accuracy: ±1°C (at 25°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