

Temperature Sentinel RTD

Wi-Fi® Based Sensor Solution

802.11, 2.4GHz Radio

Battery-Powered

Up to 2 external RTD PT100 probes

1 discrete input channel



Applications

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

- Health Care
- Transportation
- Cryogenic storage
- Industrial applications
- Laboratories

Features

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

- Form Factor – 4"x 2"x 1"
- Web-based Data Visualizationⁱ
- Up to 3 Years Life using a single Lithium AA batteryⁱⁱ
- Alarming/Alerting Systemⁱⁱⁱ
- 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 5 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 - Expected life of up to 3 years with measurements every minute
Operating conditions	Operating temp. range: -10°C to +60°C Operating humidity range 0% RH to 90% RH non-condensing
Physical dimensions	3.9"L x 2.4"W x 0.8"H (100mm x 62mm x 21mm) Weight: 2.75oz (78g)
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

Inputs

Discrete Input	1 digital input for connection to a switch.
RTD Inputs	<p>Up to 2 identical probes can be attached.</p> <p>Compatible with Pt-100 RTD, DIN/IEC751 ($\alpha = 0.00385$).</p> <p>Temperature range: from -200°C to $+400^{\circ}\text{C}$</p> <p>Resolution : 0.1°C</p> <p>Accuracy: $\pm 0.2^{\circ}\text{C}$ typical (system is individually calibrated by software for best accuracy).</p>

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.

Contact us:

U.S. Office:

Aginova Inc.
2226 Central Ave., Suite One
Middletown, OH 45044
Phone: +1 513 727 1984
Fax: +1 732 879 0248
[info \(at\) aginova.com](mailto:info(at)aginova.com)

European Office:

Aginova Sàrl
PSE-D, EPFL
CH-1015 Lausanne, Switzerland
Phone: +41 21 693 8691
Fax: +41 21 693 8692
[info-ch \(at\) aginova.com](mailto:info-ch(at)aginova.com)

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

ⁱⁱ Battery Life varies depending on network conditions and sensor settings

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