

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, database and a web-based portal.

- Form Factor – 2.4”x 2.4” x 0.9”
- Web-based Data Visualization
- Up to 3 Years Life using a single Li-thium AA battery
- Alarming/Alerting System
- 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	33 mW

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, 104 bit)

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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