Wi-Fi RTLS
Temperature Sensors

The Ekahau temperature monitoring solution provides an automated way of measuring and monitoring temperature ranges using wireless transmitters. The solution monitors and automatically alerts when the temperature in a monitored storage unit, such as a freezer, refrigerator or oven goes outside a predefined temperature range. Temperature measurements are transmitted wirelessly to the Ekahau Vision™ application that provides alarms and historical trends.

The Ekahau temperature sensors have external probes that can be installed inside the unit where temperature is being measured. The external probes are NIST traceable and can be used both, for monitoring air or glycol solution temperatures. With the Ekahau TS2 Dual Temperature Sensor tag, you can monitor two separate probes from the same sensor which lowers the total cost of deployment. The temperature sensor tag itself remains always outside of the extreme temperatures allowing for easy maintenance and better network connectivity. In case of network outages, the Ekahau Temperature Sensors can locally store the temperature measurements and automatically provide the measurements to the application after the outage.

Parameter	Standard RTD
Supported Wi-Fi Networks	802.11 b/g
Measuring Current	300 micro Amp. @ 2% duty cycle
RTD Power on Duty Cycle	2%
Resolution	.1° C
Transmission rate	User Programmable
Log rate	User Programmable
Battery Life	Up to 157,680 Transmissions
Dimensions (enclosure)	4.625"x2.85"x1.0"
Weight	5.0 oz.
Probe Operating Temperatures	TP1: -112 to 257F / -80 to 125C (accuracy ±0.9 F / ±0.5 C) TP2: -328 to 302F / -200 to 150C (accuracy ±2.7 F / ±1.5 C)
Storage Temperature	-40° to 60° C
Battery	3.6 v Lithium Thionyl Chloride (2)

Features

- Universal Temperature Transmitter with logging
- Single (p/n 3008-02-V6) or dual channel (p/n 3008-02-V6-2)
- Communicates with industry standard access points
- Wireless configuration
- Configurable alarm utility with audible and visual alarm indication
- Up to 3-4 year battery life
- Supports WEP128, WPA-PSK (TKIP), and WPA2-PSK (AES)
- Small data packets (~75 bytes)
- Temperature channel(s) sampled every 15 seconds
- Programmable log rates (2 minutes to 1 hour)
- Supports DHCP or static IP
- Channel agility
- Optional external power adapter (2-3.6vDC)
- FCC, CE, and IC Class B compliant