

Wi-Fi Humidity Sensor Tag for Accurate Monitoring

Monitoring humidity and temperature is vital in hospital operating rooms, medical supply/storage rooms, food manufacturing units, and other environmentally sensitive areas. By ensuring the correct humidity and temperature levels in a given facility, organizations can prevent the adverse effects of variables that are too high or too low thus improving the quality of patientcare and other safety standards. Regulators worldwide have issued humidity/temperature monitoring policies to periodically monitor the environmental conditions and to take action accordingly. The Ekahau HS1 humidity sensor tag is part of the Ekahau Real-Time Location System solution that will help organizations maintain compliance with these regulations by providing complete visibility into the current and historical condition of monitored environments.

Ensures correct manufacturing and logistics conditions

For industrial use, maintaining the proper environmental conditions is vital to keep factories and processes running. The Ekahau humidity and temperature solution measures and monitors environmental conditions throughout the whole manufacturing process and supply chain. With the local data logging capability, the Ekahau HS1 provides full humidity and temperature history even for the transportation and storage when network connection may not be available. When the sensor is back in the network coverage area it automatically transmits the logged measurements to the application, which allows checking and alerting for out of range conditions.

Automated wireless environment condition monitoring solution

The Ekahau HS1 provides an automated way to measure and monitor the relative humidity and surrounding temperatures. Combined with Ekahau RTLS, the solution automatically alerts when the humidity or temperature of the monitored environment goes outside a predefined range. In addition, the Ekahau RTLS solution provides real-time views and historical reports on the conditions of the monitored environments.



Features

- Wireless humidity and temperature sensor for a variety of applications
- Up to 3-4 year battery life
- Audible and visual indication on the tag when alarming
- Programmable alarm limits on the tag
- Humidity/temperature monitoring and calibration done within Ekahau Vision
- Humidity / temperature input sampled every 15 seconds or as required for the specific application
- On-board sensors:
Humidity range: 0% - 100% RH
Temperature range: -40C to +85C
- Local data logging capability: No lost data even during network or power outages

Benefits

- Lowers the cost of monitoring environmentally sensitive areas such as data centers, cold storage and operating rooms
- Automate humidity and temperature monitoring, reporting, and alerting processes required for regulatory compliance and improved business operations

Technical Specifications

Radio

Supported Wi-Fi networks: 802.11 b/g/n
Wi-Fi Chipset: 802.11g
Transmit power: 16mW
Encryption: WEP128, WPA-PSK (TKIP), and WPA2-PSK (AES)

Battery

Up to v.4 – 2 x 1.5 V Lithium AA (FR6)
After v.4 – 2 x 3.6 V Lithium Thionyl Chloride AA
Battery life: up to 3-4 years

Configuration

Configured with Ekahau Wi-Fi Sensor Utility (Windows) via USB cable

Certifications

FCC, CE, and IC Class B compliant

Measurement accuracy & range

Temperature accuracy (@ 25° C): +/- 0.2°C
Humidity accuracy (20% to 80% RH): +/- 2%
Temperature range: -40°C to +85°C
Humidity range: 0% to 100%

Physical

140 x 87 x 25.4 (mm) / 5.5 x 3.44 x 1.0 (in)
Mounting: On the wall using a wall cradle (accessory) or inside the monitored unit

Environment

Operating temperature: -40°C to +85°C
Storage temperature: -40°C to +85°C

Specifications subject to change without prior notice.



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