ekahau

HS1
Humidity Sensor Tag

Improves patient safety and helps following compliance regulations

Monitoring humidity and temperature is vital in environmentally sensitive areas such as in hospital operating rooms, surgical supply rooms, and medical storage units. By ensuring the correct humidity and temperature levels, hospital can prevent growth of mold, mites, and fungus thus improving the quality of patient safety and care. Several regulators worldwide have issued humidity/temperature monitoring policies to periodically monitor the environment conditions and to take actions accordingly. Ekahau humidity and temperature monitoring solution helps following 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 condition is vital to keep factories and processes running. Ekahau humidity and temperature solution measures and monitors environmental conditions throughout the whole manufacturing process and supply chain. With the local data logging capability, Ekahau HS1 Humidity Sensor tag provides full humidity and temperature history even for the transportation and storage time 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 at all times.

Automated wireless environment condition monitoring solution

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

Features

- **NIST traceable wireless humidity and temperature sensor for a variety of applications**
- **Up to 3 year battery life with a 15 min reporting interval**
- **Audible and visual indication when in alarm**
- **Programmable alarm limits**
- **Humidity/temperature monitoring and calibration done within Ekahau Vision web application**
- **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 measurement even during network or electricity outages**

Benefits:

- **Lowers the cost of remote monitoring of environmentally sensitive areas such as data centers, cold storages, and cold chain items**
- **Automates the humidity/temperature monitoring, reporting, and alerting process required for regulatory compliance and improved business operations**
- **Utilizes any existing 802.11 b/g/n wireless networks**
- **Easily configured for alerting on exceeding high or low temperature limits**
- **As an alternative to wired systems, the Ekahau solution allows for easy reconfiguration and redeployment of facilities without having to run expensive cabling for power and connectivity**

Ekahau RTLS Solution:

- **T301 Wi-Fi Tags**
- **TS Temperature and HS Humidity Sensor Tags**
- **Ekahau RTLS Controller**
- **Vision End-User Application**

Technical Specifications

Radio

- 802.11g 2.4GHz
- Transmit power: 16mw
- Encryption: 128bit WEP, WPA, and WPA2-PSK (AES)

Battery

- 2 x 1.5 Volt standard lithium AA Battery
- Battery life: Up to 3 years/15 min transmission interval

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): +/- 0.4°C
- Humidity accuracy (20% to 80% RH): +/- 3%
- Temperature range: -40°C to +85°C
- Humidity range: 0% to 100%

Physical

- 114 x 70 x 25 (mm) / 4.5 x 2.75 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

Soluzione commercializzata da:

Etnasoftware srl
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