

Introduction

HE24R is a temperature and humidity wireless recorder independently developed and produced by HUATO Company. The product has pocket size and strong endurance. It uses imported high-precision sensors with stable and reliable performance and fast response. The device is small size, exquisite and beautiful, simple in operation, reliable in performance, rechargeable, and can last for more than 60 days in single charge. With automatic sleep, the display interface can display battery power, date, time, temperature value, humidity value, and recording status, etc.



Model list

Sensor	Temperature and humidity/single temperature sensor (built-in)		
Temperature Range	-20 ~50°C	Humidity Range	0 ~99.9%RH
Temperature Accuracy	±0.5°C	Humidity Accuracy	±5%RH
Protection grade	IP65	Resolution	Temperature : 0.1°C/Humidity: 0.1%RH
Sampling interval	10~240 (User configurable)	Charging time	4 hours
Record interval	60~86400s (User configurable)	Capacity	8600
Size	74*44*16mm	Accessories	USB Power adapter 、 Software CD
Battery life	Under 25°C working environment, 60 days (Upload once a minute)		

Applications

Widely applied in the detection of temperature and humidity in agriculture, forestry, geology, construction, medicine, cold storage and other industries.



Agriculture



Construction



Medicine



Cold storage

433M to RJ45 wireless relay:

- ◆ Can be used as a relay/gateway simultaneously to receive wireless signals from wireless temperature and humidity recorders.
- ◆ The number of wireless recorder terminals that can be connected is 32.
- ◆ Number of supported bands: 11 bands.
- ◆ Wireless interface: Self-organizing network, automatically find the optimal link transmission data.
- ◆ Built-in RJ45 interface to transmit received wireless data from the.
- ◆ LAN to the server. Power: 12V DC power supply.
- ◆ Wall-mounted.



HE2430

HE2508 SMS alarm specification parameters:

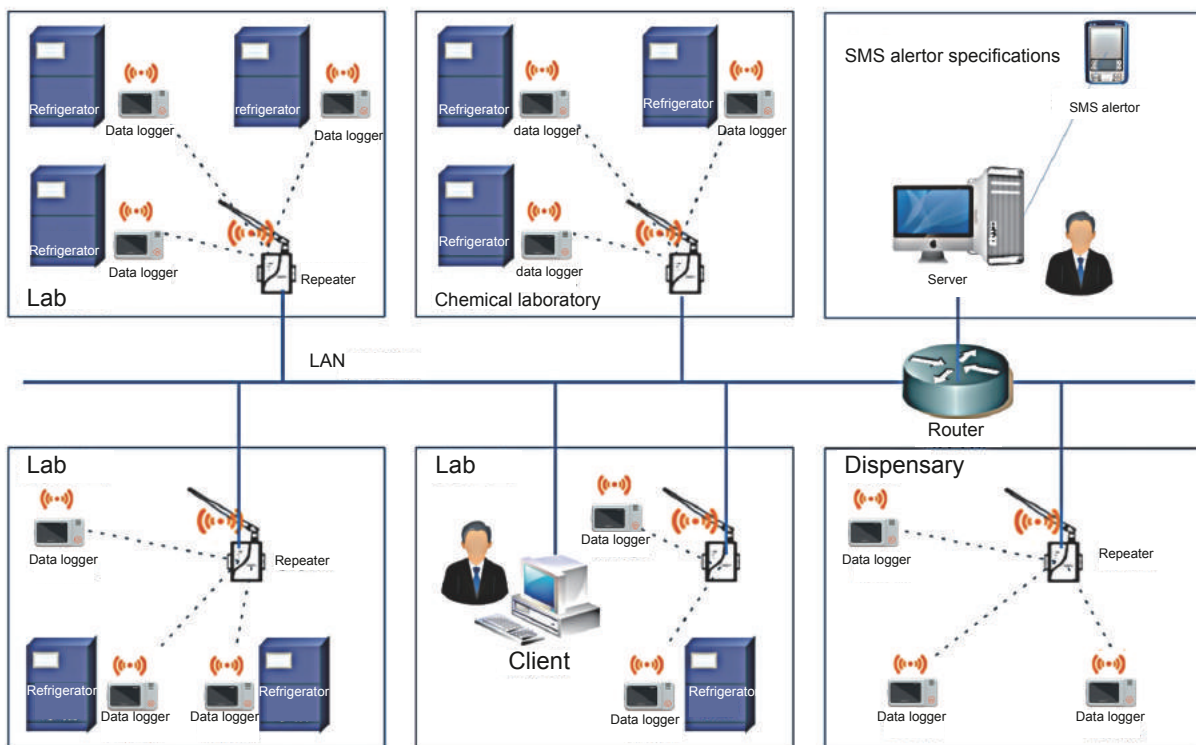
- ◆ The RS232/SIM interface has built-in 15KVESD protection.
- ◆ 12V DC power supply.
- ◆ Support mobile, Unicom mobile phone cards.
- ◆ GSM850/900/1800/1900MHz quad-band.
- ◆ The system will send an alarm message to the user via the HE2508.



HE2508

Wireless monitoring system for refrigerator and indoor environments:

- View real-time/historic data via any authorized PC in LAN
- It's OK to open refrigerator for a while, Alertor will be triggered only when data value exceeds settings
- Alarm times can be limited to avoid frequent alarm, support fault recovery SMS.
- Timing SMS: send SMS to report system status everyday



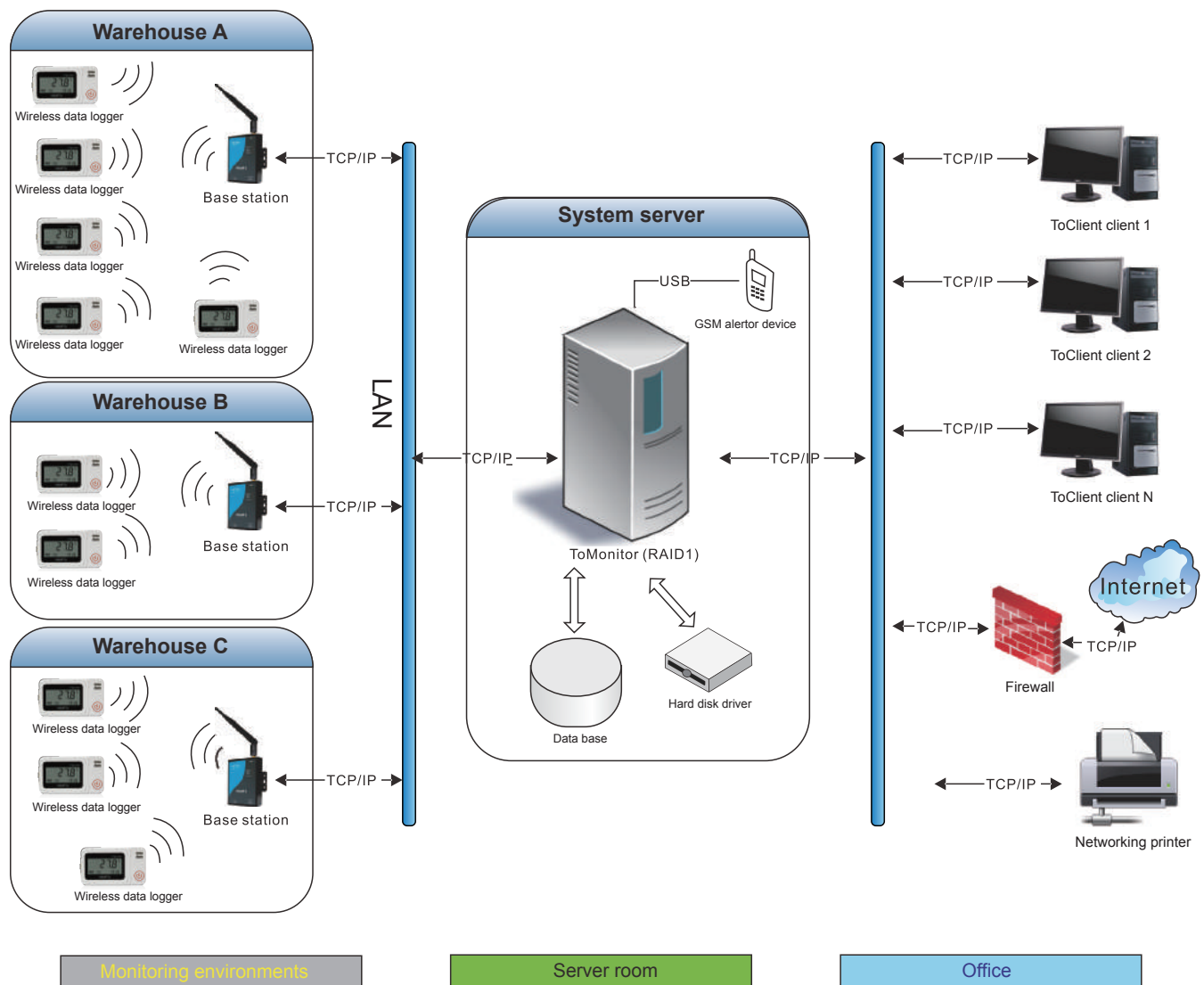
Environmental monitoring system

This environmental monitoring system consist of 3 parts: the device layer , control layer and user layer.

User layer : including any authorized computers in this system. These devices is allowed to access the real-time running information and historic data of this system after installed the ToClient software. Working principle: all data is stored in the database of control layer(control server). Users can view the real-time/stored data via LAN/Internet. When the monitoring data value exceeds settings set by user, this software will also play alarm sound or send email/SMS to alarm users.

Control layer: the ToMonitor runs on a server, it writes all real-time data collecting form end devices to SQL database, it triggers the alarm function when data value exceeds settings.

Device layer: all the high precision loggers records temperature, humidity and other data automatically, then sends the data to ToMonitor for processing. With battery, our loggers continually records data when the server is shutdown or there's line faults, so the data will not be lost .



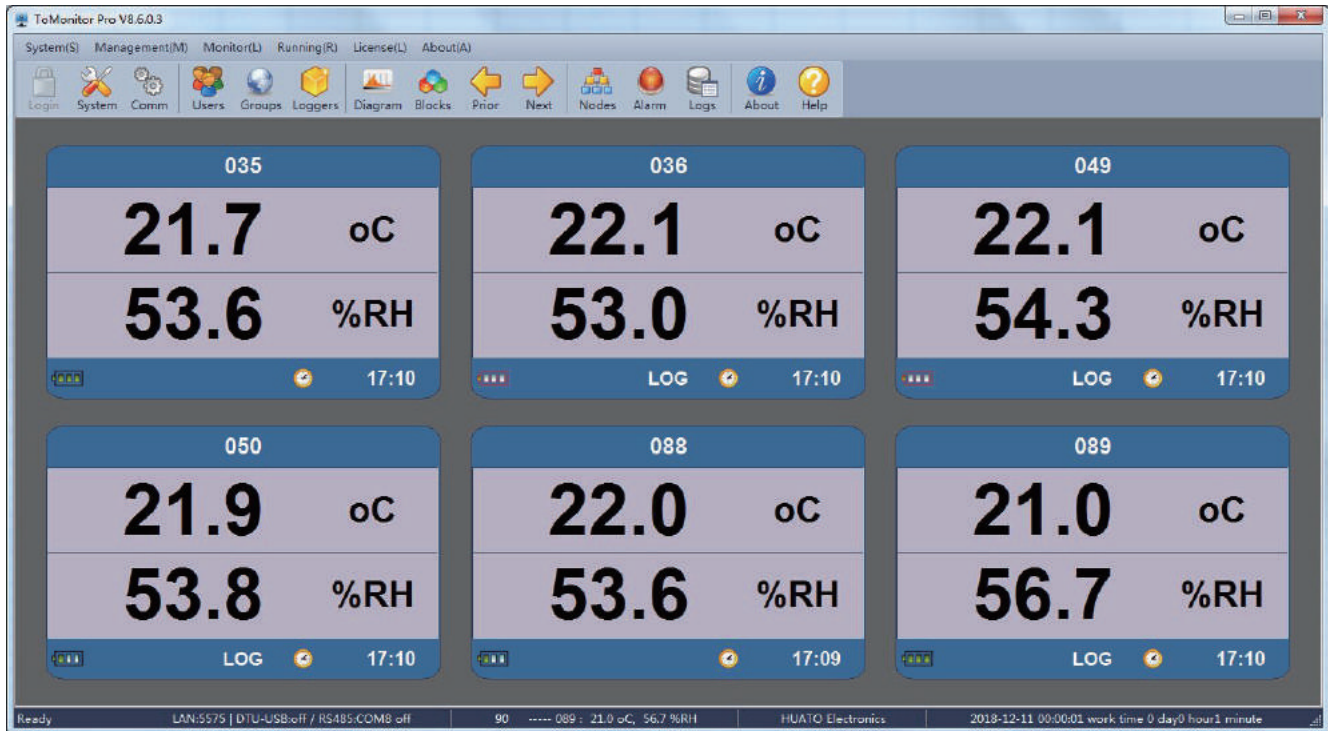
The device layer includes temperature & humidity data logger and wireless repeater, the function of this layer is to collect, record and upload temperature & humidity data . The data logger collects and records temperature & humidity data from surrounding environment and upload it to a server via wireless repeater.

ToMonitor is server software, it stores data uploaded from data loggers and displays it on the software. Users can set temperature and humidity value range for each devices, when the value exceeds limits, the software will alarm user immediately.

ToClient is the client, user can access server via this software to view real-time/recorded data of each temperature & humidity data logger.

ToMonitor Software

ToMonitor is a server software that can accept the data uploaded by the recorder and display it on the software. The temperature of each device can be set in the ToMonitor And humidity range, device alarm when the temperature or humidity beyond the range.



ToClient is a client. Users can access the server through the ToClient client and query the historical data uploaded by the recorder as well as the real-time temperature of each recorder. At the same time, internal regional network access is supported, so that users do not need to go to the computer room to derive data; Equipment/relay networking, no manual intervention, simple and convenient to add equipment; To transmit data Adopt encryption processing, effectively prevent leakage.

