



S400W-TH

Instrument Features

- ◆ Using Zigbee 2.4GHz wireless technology
- ◆ Up to 100 meters transmission range (line of sight)
- ◆ Repeater available to extend transmission range
- ◆ Logger memory automatically downloaded
- ◆ Real-time monitoring on your computer
- ◆ Alarm functions: SMS / E-mail available as following picture shows
- ◆ Long battery life (6 months @ 10 minutes interval)
- ◆ Maximum 32 data loggers to one base station
- ◆ Simple, quick and easy to install



S400W-EX



S400W-ET



S400W-DT



S400W-EK

| Model | Sensor Type | Range | Accuracy | Memory |
|----------|--|-----------------------|-----------------|--------|
| S400W-TH | Temperature & Humidity Internal Sensors | -20~+70°C 0~100%RH | ±0.5°C ±3%RH | 8,192 |
| S400W-EX | Temperature & Humidity External Probe with 3m Cable | -40~+85°C 0~100%RH | | |
| S400W-ET | Single External Temperature Probe with 3m Cable | -40~+100°C | ±0.5°C | |
| S400W-DT | Double External Temperature Probe with 3m Cable | | | |
| S400W-EK | Single External Temperature Probe (Thermocouple) with 3m Cable | -100~+480°C | ±2°C | |

Applications

Realize temperature humidity central-monitoring and central management for cold storage, server room, refrigerator, pharmaceutical and industry warehouse, museum as well as laboratory.

Technical Specifications for S400W

- ◆Recording Capacity : Maximum 8192 , record for more than 2 years if log interval can be set 10 minutes.
- ◆Long Interval : 2 second ~ 24 hours. Timing Recorder Time, Sample Interval and log interval can be set in the Software.
- ◆Recording protection : Recording Function will stop when Battery is Low but Recording Values can be saved Forever Safely.
- ◆Adopt Switzerland Digital Temperature Humidity Integration Sensor, which Assure the Reliability & Stability.
- ◆Display Resolution : temperature: 0.1°C/ humidity: 0.1%RH
- ◆PC interface : Zigbee + USB
- ◆Wireless transmission rate: 115200 BPS
- ◆Waterproof Level : IP54.
- ◆Dimension : 90 * 87 * 44 mm.
- ◆Wireless Antenna : Built-in (2.4G) .
- ◆Installation : Wall-mounted with fixed support, easy to use and convenient to maintain.
- ◆Alarm Type : Audible & Visual Alarm (LED + Buzzer). Automatic Alarm when any Setting Limits are Exceeded.
- ◆Battery : 4*AA 1.5V Battery.



Technical Specifications for HE2400 Wireless Base Station (Transmission Relay)

- ◆Wireless transmission rate: 115200 BPS.
- ◆Wireless temperature humidity data logger terminal units available: 32 units.
- ◆Frequency number supported: 15 Bands
- ◆Display : Dual display. The first line shows the packets count received; the second line shows the last five numbers of the serial No of the last packets data logger.
- ◆PC interface: Zigbee + RJ45 , can be connected directly to the internal LAN of enterprise.
- ◆IP address : Fixed IP.
- ◆Dimension : 126 * 120 * 30 mm.
- ◆It will connect several data packets into one packet when receive data packet from multiple wireless data loggers and send to the ToMonitor system.
- ◆Relay Configuration Rules: Each relay has one unique ID to assure no conflict ; Every adjoining relay work in different band.
- ◆Installation : Wall-mounted.



Introduction

In this network, there are many monitoring station. Taking into account the problems of wireless signal and reliability of the network, we used hybrid network Ethernet and wireless devices. ToMonitor software uses TCP / IP network protocol to monitor each base station. The base station is used to collect data for each network, and then sent via Ethernet in real-time to ToMonitor system host. Network mode uses client / host framework and the principles of centralized monitoring of the distribution of the base station so that there is no interaction between the single point of failure. At the same time test data can be a true reflection of the interior room (box) environment. In this way, we combine unified monitoring, independent measurement and control principles greatly improves the system reliability.



Logger ST52:
Temperature (27 °C)
exceeds limits (10,25)



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