

# S05-TH ZigBee Wireless Air Temperature & Humidity Sensor



## Features & Benefits

- High Precision temperature and humidity sensor
- Compatible with ZigBee Sentrol Cloud and ZigBee Complete Solution for constant data collection, instant awareness and automated environment control
- 500m/1640ft wireless transmission range
- Fitted with UV protection and IP66 Water and dust proofing to protect against the elements
- Powered by 4 x AA battery with a battery life of 1yr+
- Rapid Return on investment

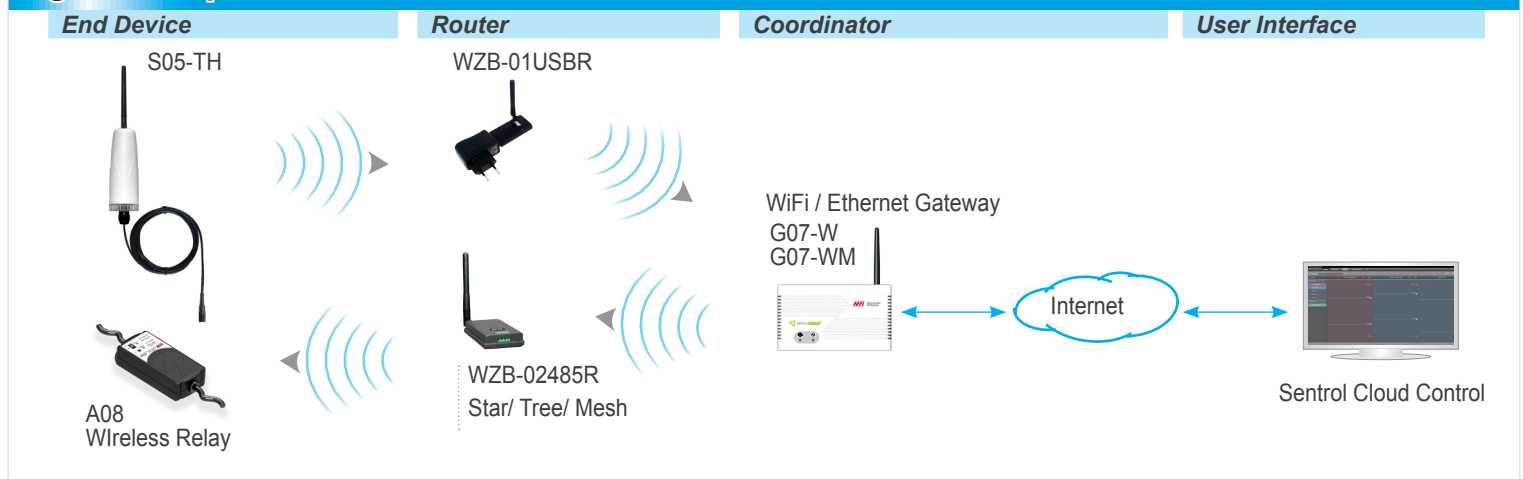
## Product description:

The S05-TH is a temperature and humidity sensor designed for precision data capturing in agriculture. This wireless device is housed in an IP66 certified casing eliminating the need for wire and cable installation and giving it a high resistance to extreme weather and conditions. The S05-TH is battery powered and has a transmission range of 500m making it suitable for installation out in the fields. This device is also compatible with ZigBee Sentrol Cloud and ZigBee Complete Solution for constant data collection, instant awareness and automated environment control. This device can function as an 'end device' (sensor) in a ZigBee Tree, Star or MESH system

## Specifications

|                      |  |                       |  |
|----------------------|--|-----------------------|--|
| Sensing Type         | Temperature and humidity                                 | Transmit Interval     | Set by DIP Switch (1sec. ~ 75min.)                       |
| Sensing Range        | Temperature: -10°C~70°C/14°F~158°F<br>Humidity: 0~95% RH | Network Topology      | Star/ Tree/ Mesh   |
| Measurement Acc      | ± 0.5°C/ 4.5%RH  | Power Supply          | DC 6V w/ 4 x AA battery                                  |
| Addressing           | IEEE MAC 64 bit  | Operating Environment | Temperature: -10°C~45°C/14°F~113°F<br>Humidity: 0~95% RH |
| Wireless Protocol    | IEEE 802.15.4 Zigbee2007/PRO HA Profile                  | Dimensions            | 13(H) X 5(Φ) cm<br>5.1(H) X 1.9(Φ) inches                |
| Transmission Range   | 500 meters / 1640 feet (Free space)                      | Weight                | 265g/ 9.34oz   |
| Operating Frequency  | 2.4GHz ISM Band  | Operating System      | Windows 95 ~ Win8  |
| RF Output Power      | 18dBm  | Certifications        | CE/ FCC  |
| Receiver Sensitivity | -92dBm   | Battery Life          | 1 year based on sending data per 10 mins.                |
| Waterproof level     | IP66   | Interoperability      | Sentrol Cloud  |
| Power Consumption    | Tx:350mA/ Sleep:5uA                                      |                       |  |

## ZigBee Complete Solution



## Product Range & Accessories

|              |            |  |          |               |                                   |
|--------------|------------|--|----------|---------------|-----------------------------------|
| Solution     | Model No.  | Description                              | Solution | Model No.     | Description                       |
| End Device   | S05-TH     | Wireless Temperature and humidity sensor | Gateway  | G07-W         | ZigBee to WiFi / Ethernet Gateway |
| Relay Router | A08        | Wireless Power Meter Actuator            | Gateway  | G07-WM        | ZigBee to 3G / GPRS Gateway       |
| Router       | WZB-01USBR | DC 5V Adaptor                            | Cloud    | Sentrol Cloud | Sensor control cloud service      |
| Router       | WZB-02485R | DC 6 ~ 24V by terminal block             |          |               |                                   |



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