

# S05-ST ZigBee Wireless Outdoor Soil Temperature Sensor



## Features and Benefits

- High Precision soil temperature 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

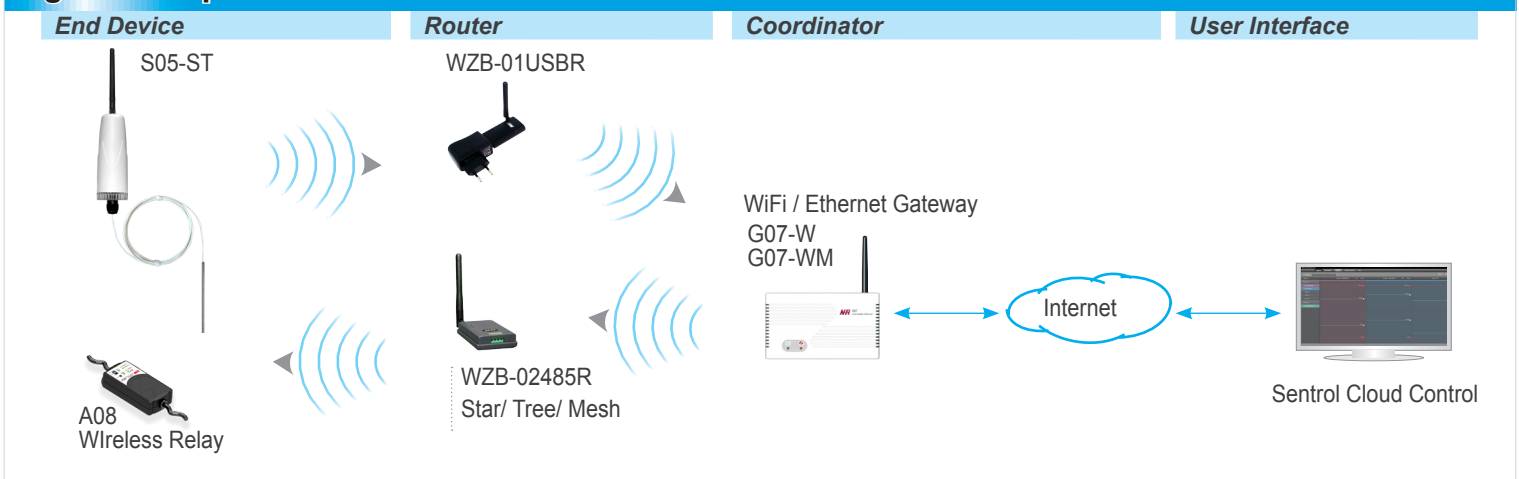
### Designed Specially for Precision Control in Agriculture

The S05-ST is a soil temperature sensor designed for precision data capturing in agriculture. This wireless device is housed in an IP66 certified casing eliminating the need for wire installation and giving it a high resistance to extreme weather and conditions. The S05-ST 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) as well as router in a ZigBee Tree, Star or MESH system

## Specifications

Sensing Type	Soil Temperature	Transmit Interval	Set by DIP Switch (1sec. ~ 75min.)
Sensing Range	-40°C~120°C	Network Topology	Star/ Tree/ Mesh
Measurement Acc	± 0.15°C	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 Humidity: 0~95% RH
Wireless Protocol	IEEE 802.15.4 Zigbee2007/PRO HA Profile	Dimensions	13(H) X 5(Φ) cm 5.1(H) X 1.9(Φ) inches
Transmission Range	500 m / 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-ST	Wireless Soil Temperature 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			

