

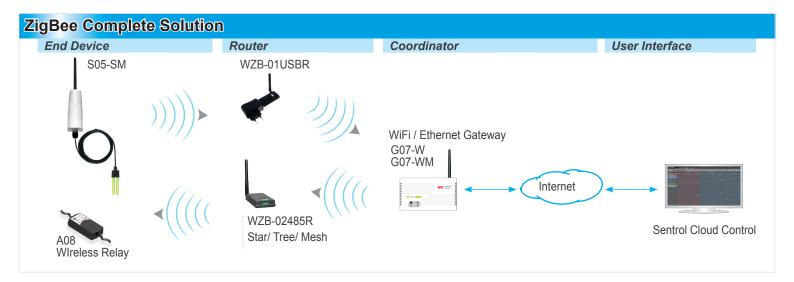
## **Features and Benefits**

- High Precision soil moisture 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 Especially for Precision Control in Agriculture** 

The \$05-\$SM is a soil moisture 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 \$05-\$SM 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	Soil Moisture	Transmit Interval	Set by DIP Switch (1sec. ~ 75min.)			
Sensing Range	0~95% RH	Network Topology	Star/ Tree/ Mesh			
Measurement Acc	± 5%	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			
Transmission Range	500 meters / 1640 feet (Free space)	Difficilisions	5.1(H) X 1.9(Φ) inches			
Operating Frequency	2.4GHz ISM Band	Weight	265g/ 9.34oZ			
RF Output Power	18dBm	Operating System	Windows 95 ~ Win8			
Receiver Sensitivity	-92dBm	Certifications	CE/ FCC			
Waterproof level	IP66	Battery Life	1 year based on sending data per 10 mins.			
Power Consumption	Tx:350mA/ Sleep:5uA	Interoperability	Sentrol Cloud			



Product Range & Accessories						
Solution	Model No.	Description	Solution	Model No.	Description	
End Device	S05-SM	Wireless Soil Moisture 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				

