STH-03ZB
ZigBee Wireless Temperature and Humidity Sensor w/ Battery
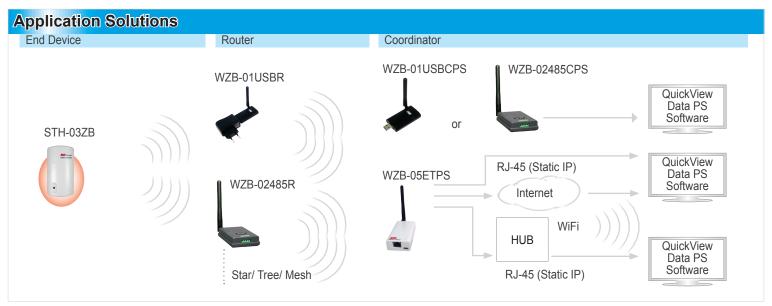

ZigBee Certified Product

Features & Benefits

■ Built-in High accuracy MEMS temperature and humidity sensor element making the unit not only for observation, but also applicable in precision control.

■ Wireless transmitting means easy scalability when the user wants to add new observation nodes. Wireless transmitting means the installation of this unit can avoid unnecessary construction work and the unacceptable dust from construction work.

■ Two AA batteries which can last for one year or more means easy installation and maintenance.

■ ZigBee Home Automation Profile compliant means the device is compatible with other ZigBee HA certified receivers that adds the flexibility for user to choose from.

■ Temperature and humidity calibration via OTA (Over-the-air) using QuickView software.

The STH-03ZB is a high accuracy temperature and humidity dual sensor with built-in wireless capability; which makes it a powerful tool to integrate with your current temperature and humidity control system. Its wireless capability and battery-powered feature makes scalability and installation easy and intuitive without stressing over unnecessary construction work during installation. The major users of this sensor are building/home automation system integrators, researchers associated with precision control, precision agriculture and greenhouses owners, museum temperature and humidity management system integrators…etc.

Specifications

Sensing Type	Temperature and humidity sensor	Power Consumption	TX:35mA Sleep:1.3uA
Sensing Range	Ambient	Transmit Interval	1sec. to 75min. setting by DIP Switch
Measurement Acc	Temperature +/-0.5 ºC / Humidity +/-5%	Network Topology	Star/ Tree/ Mesh
Transmitting Protocol	UART: Modbus RTU / ZigBee: HA profile	Power Supply	3V 2 AA Alkaline battery
Addressing	IEEE MAC 64bit	Operating Environment	-10 ~ +55°C/ +14 ~ +131ºF, 0~95% RH
Wireless Protocol	IEEE 802.15.4, ZigBee2007/PRO	Dimensions	90(L) x 50(W) x 28(H) mm
Transmission Range	100 meters / 328 feet (free space)	Weight	95g/ 3.4oz
Operating Frequency	2.4GHz ISM Band	Operating System	Windows 95/ 98/ NT/ 2000/ XP/ Vista/ Win7 / 8
RF Output Power	1mW/ 0dBm	Certifications	CE/ FCC
Receiver Sensitivity	-92dBm	Battery Life	1 year based on sending data per 1 min.

Application Solutions

End Device	Router	Coordinator

Ordering Code & Accessories

Solution	Ordering Code	Description	Solution	Ordering Code	Description
End Device	STH-03ZB	ZigBee Wireless T/H sensor	Coordinator	WZB-1USBCPS	ZigBee Wireless coordinator
Router	WZB-01USBR	ZigBee Wireless router	Coordinator	WZB-02485CPS	ZigBee Wireless coordinator
Router	WZB-02485R	ZigBee Wireless router	Coordinator	WZB-05ETPS	ZigBee ethernet converter