STH-01ZB Series
ZigBee Wireless Temperature and Humidity Data Logger Sensor

ZigBee
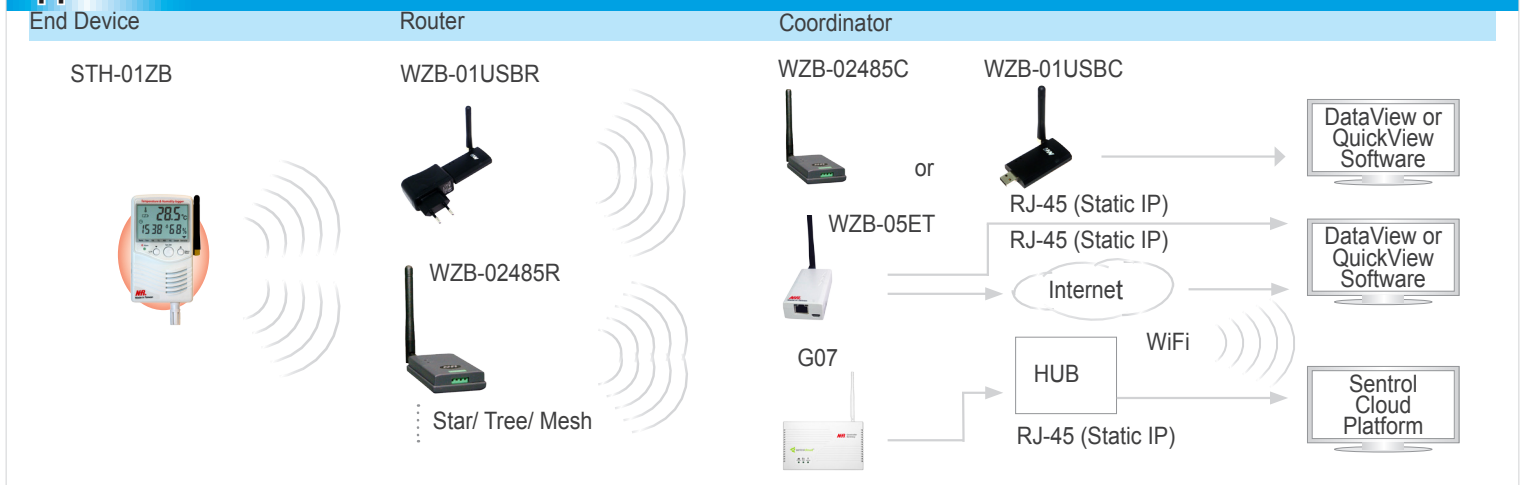Control your world
HA Profile Compliant

Features & Benefits

■ Wireless data transfer via ZigBee

■ Analysis of data can be checked on STH-01ZB series or monitored on QuickView

■ Easily check the data on the LCD screen by scrolling with the buttons on the device.

■ Alarm sound if the temperature or humidity goes over the set limits.

■ UART: Modbus RTU / ZigBee: HA profile

The STH-01ZB Series Temperature and Humidity Data Logger sensor is from the ZigBee Wireless family and can be installed into the ZigBee System network. The STH-01ZB series measures the air temperature and the relative humidity in the location. The STH-01ZB logs the data in its internal memory which is capable of 10,000 readings or the STH-01ZB series can transmit data wirelessly to a PC, Laptop or mobile phone (G07 Gateway required). The User can monitor and analyze the data in our QuickView Software in real time. The versatility of the STH-01ZB series ZigBee Wireless Temperature and Humidity Data Logger reduces overhead, thus lowering R&D costs and reducing development schedules. The STH-01ZB series is suitable for homes, office buildings, schools, libraries, warehouses, museums, greenhouses, and etc.

Specifications

Sensor Type	Temperature and humidity data logger sensor	Power Consumption	40 mA, Alarm 80 mA at 12V
Sensing Range (Sensor)	Capable of detecting -40ºC to +125ºC	Transmit Interval	1 to 1000 minutes at intervals of 1 minute
Measurement Accuracy (Sensor)	Temperature +/-0.5ºC (in the -15 to +80ºC range) Humidity +/-4% (in the 5% to 95% RH range)	Network Topology	Star/ Tree/ Mesh
Transmitting Protocol	UART: Modbus RTU / ZigBee: HA profile	Power Supply	USB 5V (mini USB connector)
Addressing	Set by the push button	Operating Environment (Main Unit)	-10 to +50ºC, 0 to 95% RH
Wireless Protocol	IEEE 802.15.4, ZigBee2007/PRO	Dimensions	130(L) mm x 75(W) mm x 33(H) mm
Transmission Range	500 meters / 1600 feet (free space)	Weight	346 g / 12.2 oz
Operating Frequency	2.4 GHZ ISM Band	Certifications	CE/ FCC
RF Output Power	18 dBm	Backup Battery	3.7V / 2400 mAh
Receiver Sensitivity	-92 dBm		

Application Solutions

End Device	Router	Coordinator
STH-01ZB	WZB-01USBR	WZB-02485C WZB-01USBC

WZB-02485R

Star/ Tree/ Mesh

or

WZB-05ET

G07

RJ-45 (Static IP)

RJ-45 (Static IP)

Internet

WiFi

HUB

RJ-45 (Static IP)

DataView or QuickView Software

DataView or QuickView Software

Sentrol Cloud Platform

Ordering Code & Accessories

Solution	Ordering Code	Description	Solution	Ordering Code	Description
End Device	STH-01ZB	ZigBee Temperature and Humidity data logger	Coordinator	WZB-01USBC	ZigBee Wireless Coordinator
Router	WZB-02485R	ZigBee Wireless Router	Coordinator	WZB-02485C	ZigBee Wireless Coordinator
Router	WZB-01USBR	ZigBee Wireless Router	Coordinator	WZB-05ET	ZigBee Ethernet (Coordinator)
			Gateway	G07	ZigBee Multi-Gateway

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