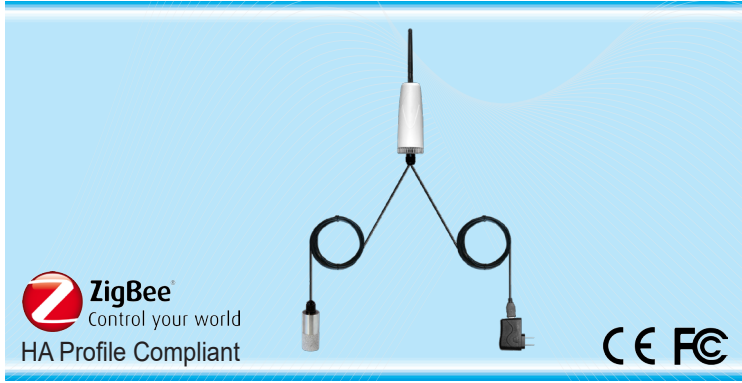


S05-CO2 ZigBee Wireless Carbon Dioxide Sensor



Features & Benefits

- High Precision carbon dioxide sensor
- Compatible with ZigBee Sentrol Cloud and ZigBee Complete Solution for constant data collection, instant awareness and automated environment control
- 300m/984ft wireless transmission range (free space)
- Transmitter is fitted with UV protection and IP66 Water and dust proofing to protect against the elements.
- Stainless CO2 sensor probe designed specially for high humidity environment
- Automatic statistics sampling and archival at specified time interval

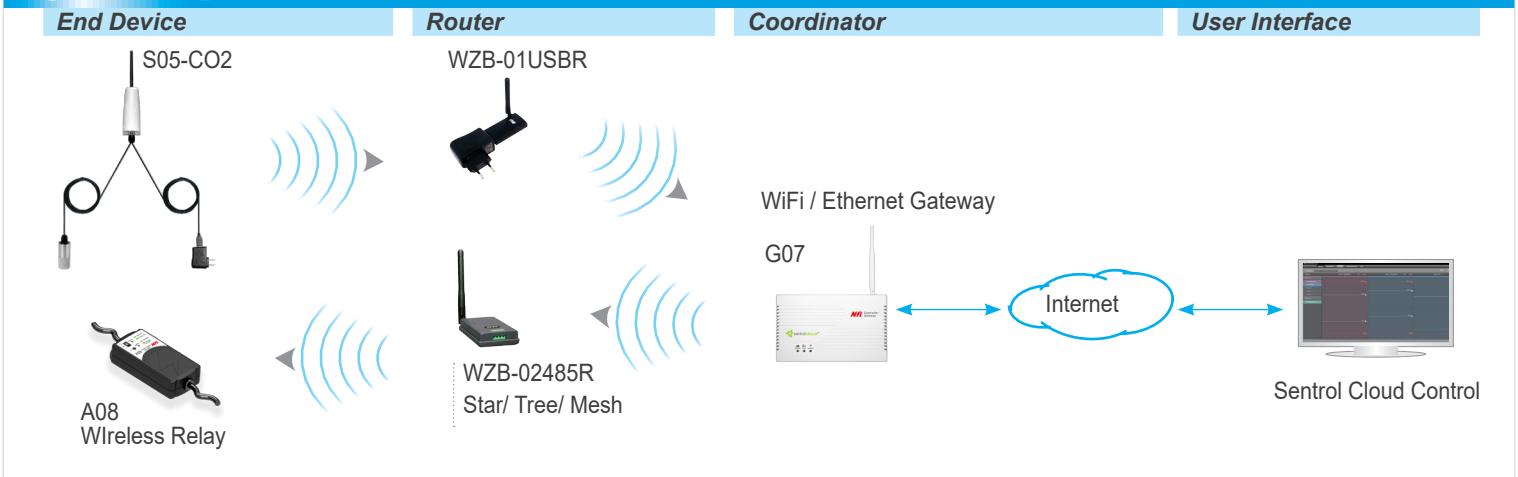
Product description:

The S05-CO2 is a carbon dioxide sensor designed for precise environmental monitoring 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-CO2 is powered by 5VDC adapter and has a transmission range of 500m (free space) 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. The S05-CO2 can be interconnected with ZigBee power relay (A08) for DCV (demand controlled ventilation) or other applications.

Specifications

Sensing Principle	Non-dispersive infrared (NDIR)	RF Output Power	18dBm
Sensing Type	Carbon dioxide (CO2)	Receiver Sensitivity	-92dBm
Sensing Range	0 to 10,000 ppm CO2	Transmitter Waterproof Level	IP66
Sensing Accuracy	±70 ppm CO2, ±3% of reading	Transmit Interval	Set by DIP Switch (1sec. ~ 75min.)
Pressure Dependence	±1.6% reading per hPa	Network Topology	Star/ Tree/ Mesh
Sensor Cable Length	2 meters	Power Supply	AC adapter (AC to DC 5V)
Sensor Probe Dimensions	8.4 (H) X 2.9 (Φ) cm / 3.3 (H) X 1.1 (Φ) inches	Tranemitter Dimensions	13(H) X 5(Φ) cm 5.1(H) X 1.9(Φ) inches
Sensor Probe Enclosure	Steel sintered filter (water splashing prohibited)	Weight	Transmitter + Sensor Probe: 291.8g/ 10.3oz AC Adapter: 45.4g/ 1.6oz
Operating Environment	Temperature: 0°C to 50°C/32°F~122°F Humidity: 0 to 85% RH (Non-condensing)	Certifications	CE/ FCC
Wireless Protocol	IEEE 802.15.4 Zigbee2007/PRO HA Profile	Interoperability	Sentrol Cloud
Transmission Range	Up to 300 meters / 984 feet		
Operating Frequency	2.4GHz ISM Band		

ZigBee Complete Solution



Product Range & Accessories

Solution	Model No.	Description	Solution	Model No.	Description
End Device	S05-CO2	Wireless Carbon Dioxide Sensor	Gateway	G07	ZigBee to WiFi/Ethernet/3G Gateway
Relay Router	A08	Wireless Power Meter Actuator	Cloud	Sentrol Cloud	Sensor Control Cloud Service
Router	WZB-01USBR	Wireless ZigBee Router (USB DC 5V)			
Router	WZB-02485R	Wireless ZigBee Router (DC 6-24V)			