



SenseCAP S2103

CO₂, Temperature, and Humidity Sensor

Specifications

CO ₂	
Range	400 to 10000 ppm
Accuracy	400 to 5000 ppm: $\pm(30+3\%MV)$ 5000 to 10000 ppm: $\pm10\%MV$
Resolution	1 ppm
Air Temperature	
Range	-40 to +85 ° C
Accuracy	±0.2 ° C
Resolution	0.01 ° C
Long-term Drift	<0.03 ° C/year
Air Humidity	
Range	0 to 100 %RH
Accuracy	±1.8 %RH
Resolution	0.01 %RH
Long-term Drift	<0.25 %RH/year
General Parameters	
Product Model	S2103
Microcontroller	Wio-E5
Support Protocol	LoRaWAN v1.0.3 Class A
Built-in Bluetooth	App Tool to change parameters
LoRaWAN Channel Plan	IN865/EU868/US915/AU915/ AS923/KR920/RU864*
Max Transmitted Power	19dBm
Sensitivity	-136dBm@SF12 BW=125KHz
Communication Distance	2 to 10 km (depending on gateway antenna and environments)
IP Rating	IP66
Operating Temperature	0 to 50 ° C **
Operating Humidity	0 to 90 %RH (non-condensing)
Device Weight	285g
Certification	CE / FCC / RoHS
Battery (Contained in equipment)	
Battery Life	Up to 10 years***
Battery Capacity	19Ah (non-rechargeable)
Battery Type	Standard D-size SOCl ₂ Battery

* A device supports different frequencies and can be configured via the Bluetooth App.

** It is limited to the operating temperature of the CO₂ chip, beyond which CO₂ value may be inaccurate or have incorrect values

***The battery life varies from data upload interval and distance between gateway.

Dimension

