

LSN18C03

LORA SENSOR NODE

TEMPERATURE/HUMIDITY/CO2



Version:1.0

Date:2018/11/8

RD Manager

A handwritten signature in black ink, appearing to read 'Kevin', is written over the 'RD Manager' text.

ADD : No.9, Chenggong St., Tucheng Dist., New Taipei City 236, Taiwan (R.O.C)

TEL : 886-2-22683268

FAX : 886-2-22684061

AccuIoT Lora Node

Features

- Long Range Wide Area IoT application
- Low power consumption
- NDIR CO2 sensor technology
- LoRa Private protocol for closing system application
- IP67 waterproof case available
- multi-sensor for air quality or agriculture application

Specification

Power

External Input 5 VDC Voltage (micro USB connector)

Mechanical

Physical Connection pluggable Connector,

External Antenna SMA, Omnidirectional, 3 dBi, 900~922MHz, Dimensions 123 mm

Option Enclosure IP67-rated, ABS

Weight 0.75 lbs (0.34 kg)

Technology

Wireless LoRa Private 868/915MHz

Environmental

Installation Indoor or outdoor

Operating Temperature -20 to 70 °C

Storage Temperature -40 to 70 °C

Operating Humidity 0 to 90% Non-condensing

CO2 Sensor Specifications

Parameter	Conditions	Value
CO2 measurement range	0 – 40' 000 ppm	
Accuracy	400 ppm – 10' 000 ppm	± (30 ppm + 3%MV)
Repeatability	400 ppm – 10' 000 ppm	± 10 ppm
Temperature stability	T = 0 ... 50°C	± 2.5 ppm / °C
	400 ppm – 10' 000 ppm	
Accuracy drift over lifetime	400 ppm – 10' 000 ppm	± 50 ppm

Humidity Sensor Specifications

Parameter	Conditions	Value
Humidity measurement range	0 %RH – 100 %RH	
Accuracy	25°C	0 – 100 %RH ± 3 %RH
Repeatability	± 0.1 %RH	
Accuracy drift	< 0.25 %RH / year	

Temperature Sensor Specifications

Parameter	Conditions	Value
Temperature measurement range	- 40°C – 70°C	
Accuracy	0 – 50°C	± (0.4°C + 0.023 × (T [°C] – 25°C))
Repeatability	± 0.1°C	
Accuracy drift	< 0.03 °C / year	