RADIONODE®

The most innovated data logger

Particle Counter Data Logger via WiFi

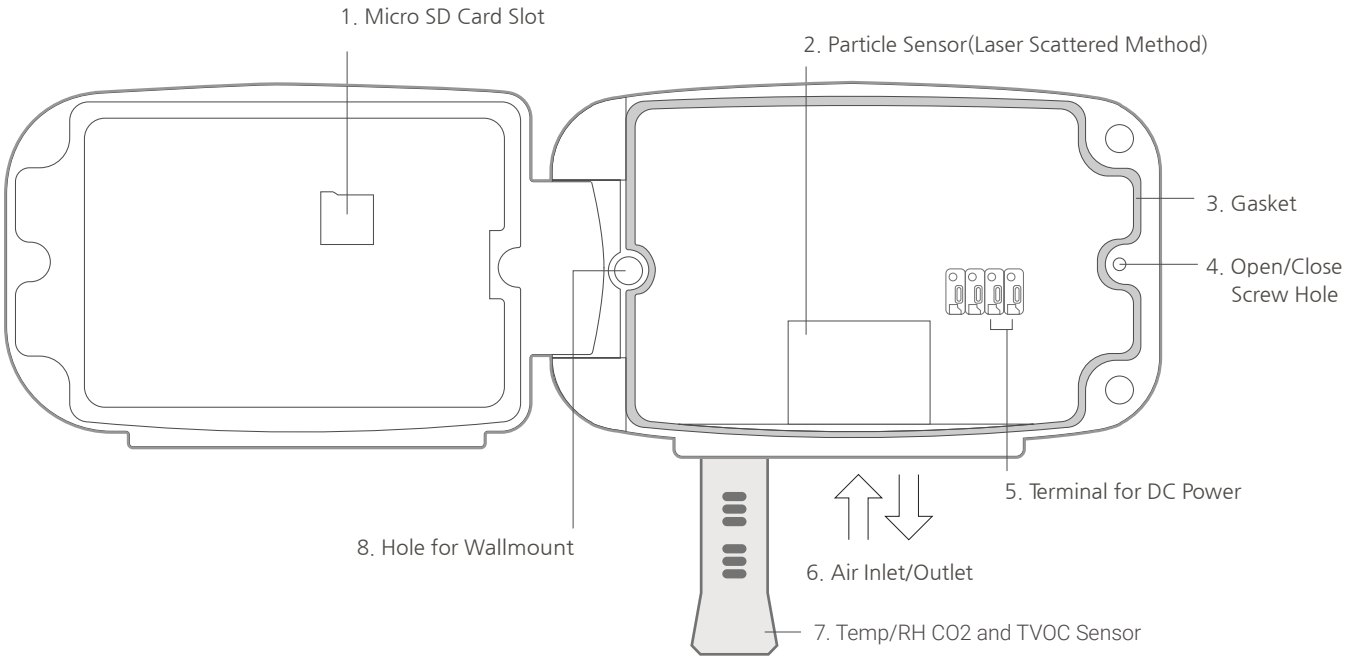
RN400-T2PM-RG24



- WiFi Support b/g/n 2.4GHz (WPA2-ENT)
- HTTP output via WiFi
- Radionode365 Cloud Web Service
- PM 2.5 / PM10 / CO2 / TVOC
- 12V DC Power
- OLED Display / Micro SD/ Backup F-RAM

RN400-T2PM-RG24 is designed to measure indoor air quality. It uses the laser scattered technology to get the PM information , NDIR and MEMS technology for CO2 and TVOC. All the IAQ information are transferred to the destination cia WiFi connection. The destination would be an information system such as public cloud, local server and even PC. For high level security, it supports up to WPA2-Enterprise protocol. Premium RN400 T2 series have IP65 for protection, OLED screen for cold outdoor, F-RAM memory for instant backup and micro-SD card for CSV backup.

Hardware



Copyright©2023 DEKIST Co., Ltd.

RADIONODE®

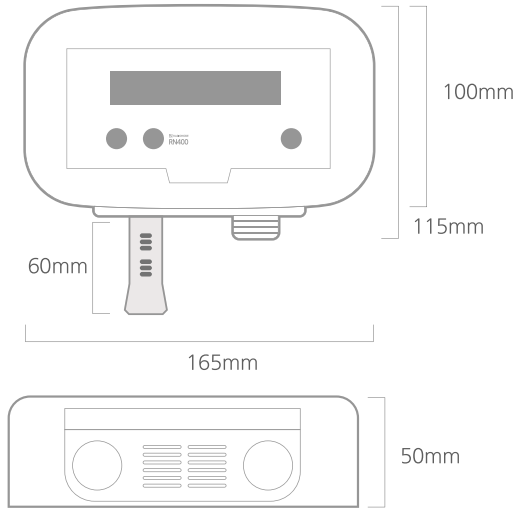
The most innovated data logger

Particle Counter Data Logger via WiFi

RN400-T2PM-RG24 Specifications

Communication Method	•2.4GHz IEEE 802.11 b/g/n up to WPA2-Enterprise •HTTP Get/Post (Radionode V2 protocol)	
Particle Sensor Channel Info.	CH1 : PM2.5(ug/m3) CH2: PM10(ug/m3) CH3: TVOC (ug/m3) CH4: CO2 (ppm)	CH5: Temp. CH6: RH(%) CH7: TVOC(ppb) CH8: PM 0.5(#/cm3)
Particle Size	0.5µm ~ 10.0 µm (PM 0.5 ~ PM 10.0)	
Flow Rate	0.3L / min	
Sampling Mode	Cumulative PM 0.5 : 0.3 µm ~ 0.5 µm PM 1.0 : 0.3 µm ~ 1.0 µm PM 2.5 : 0.3 µm ~ 2.5 µm PM 4.0 : 0.3 µm ~ 4.0 µm PM 10.0 : 0.3 µm ~ 10 µm	
CO2 Sensor	Type : Photo acoustic NDIR CO2 : 400~ 2000 ppm (±50 ppm) Calibration : Auto / Manual	
TVOC Sensor	Type : Metal Oxide MEMS TVOC : 56~13800 ug/m3 (±15 %) (60~13,000 ppb)	
Mass Concentration Accuracy	• 0 to 100 µg/m³ ± 10 µg/m³ •100 to 1,000 µg/m³ ± 10 %³	
Operating Condition	-10 ~ 60 °C (-14 ~ 140°F) / 0 ~ 95 %RH (non-condensing)	
Display Type (Color)	OLED 20X2 CHAR (WHITE)	
Sensing Interval	1min, 5mins, 10mins, 20mins, 30mins	
Sending Interval	5mins,10mins, 20mins, 30mins, 40mins, 60mins	
Internal Memory	32KByte F-RAM (Automatic Sample Backup available when no wifi) 860 Samples/CH	
External Memory	Option (16GB microSD, Permanent logging)	
Data Storage	Cloud Storage in Radionode365	
Protection	Rubber Gasket Surrounded except air inlet & outlet	
Power	12 V DC Power Only (Max Power consumption : 72mA @12V DC)	
Wall Mount Types	Magnet & Screw Hole	
Air Inlet/Outlet	Bottom side of the product	

Dimensions



Application

- Centralized Particle Monitoring System
- Indoor Air Quality Monitoring System
- Big Data Analysis System
- Remote Alert System / HVAC Control System

Product Components

- RN400-T2PM-RG24
- Cable Glands (PG11 1EA)
- 12V DC Power Adapter (500mA, 3M cable)

Contact Information

- www.radionode365.com
- master@dekist.com

Copyright©2023 DEKIST Co., Ltd.