RADIONODE®

The most innovated data logger

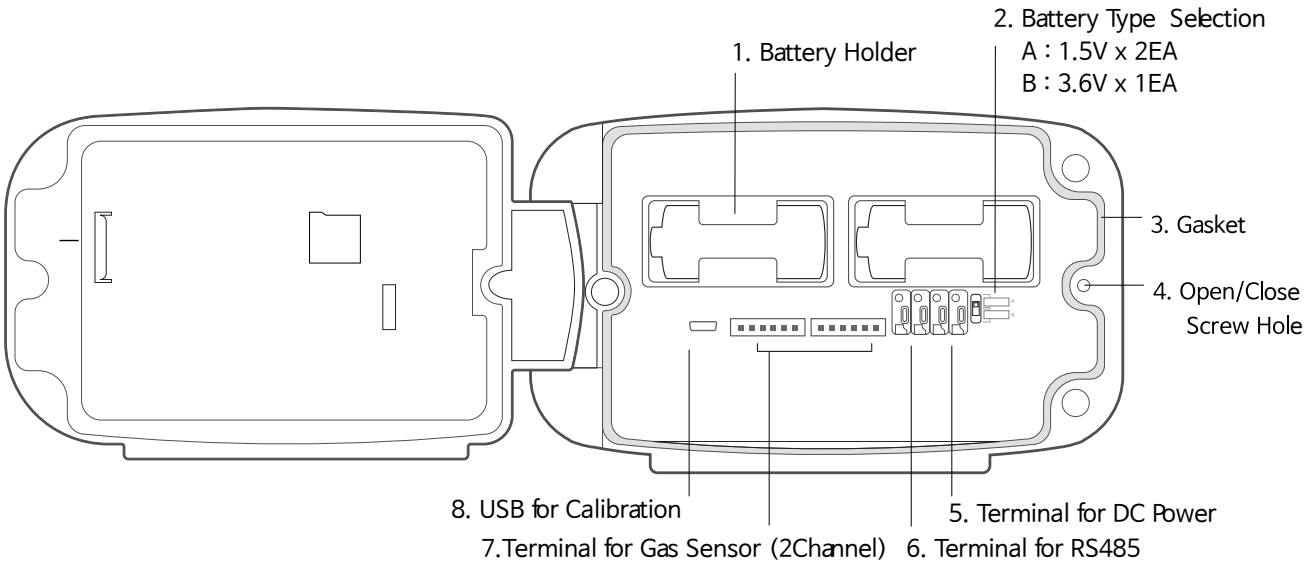
2 Channels Gas Data Logger via WiFi

RN400-T2GS

- WiFi support b/g/n 2.4GHz
- 2 CH Gas Sensor
- RS485 MODBUS RTU Output
- Cloud Storage / HTTP Output via Wifi
- C Type Battery / DC 5~30V
- OLED Display / micro SD / Backup FRAM

RN400-T2GS is designed to measure gases in the air and transfer them to the destination via WiFi connection. T2GS model could have up to two RG10 gas sensor that is a gas sensors such as NH3, H2S. 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. In addition to WiFi, RN400-T2PM can send the measured data to other traditional industrial devices such as PLC, industrial recorder and others through RS485 output. 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



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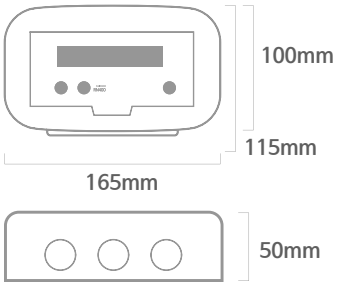
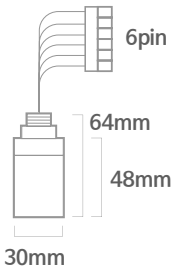
Specifications

Communication Method	• 2.4GHz IEEE 802.11 b/g/n up to WPA2-Enterprise • HTTP Get/Post • RS485 MODBUS RTU **※RS485 need to use DC power adapter**
External Sensor I/F	• CH1 : RG10 gas sensor • CH2 : RG10 gas sensor
RG10 (NH3 100)	• Range : 0 -100 ppm (Electrochemical) • Temp Range : -10 ℃ ~ 40 ℃, RH Range: 15 % ~ 90% • Expected Life : two years in normal air T90 Response Time : 40 Sec • Repeatability : 3% of signal • Resolution : 1 ppm • Long term drift : 5% per 6 months • Filter : Sintering Metal Filter
RG10 (H2S 50)	• Range : 0 - 50 ppm (Electrochemical) • Temp Range : -40 ℃ ~ 50 ℃, RH Range: 15 % ~ 90% • Expected Life : two years in normal air • T90 Response Time : 30 Sec • Repeatability : 2% of signal • Resolution : 0.05 ppm • Long term Drift : 2% loss per month • Filter : Sintering Metal Filter
Operating Condition	-20 ~ 60 ℃ / 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	F-RAM (Automatic Sample Backup available when no wifi)
External Memory	Option (16GB microSD, Permanent logging)
Battery / LifeSpan	C Type 1.5V X 2EA **OR** 3.6V Li-SOCL2 X 1EA / a year with 1.5V X 2EA @ 10min sensing
Protection	IP65
External Power / UPS	5~30V DC / YES (When DC Power Shutdown, the source is changed into the Battery immediately)
How To Setup	PC Setup Software via USB Cable
Wall Mount Types	Magnet & Screw Hole
Weight	352 g

Dimensions



<RN400-T2GS>



<RG10 Gas Sensor>

Application

- Centralized Gas Monitoring System
- Smart Farm Application
- Remote Alert System

Product Components

- RN400-T2GS Gas Data logger
- 2 Type Cable Glands (PG-9 1EA/ PG11 1EA)

Additional Accessories

12V DC Power Adaptor	
Model	AP-P1
Spec	12V 500mA, 3 Meter, 3.0 ø

NH3 Gas Sensor (only for RN400 T2GS)	
Model	RG10(NH3 100)
Spec	Range : 0 ~ 100 ppm , 15Cm / 6 Pin

H2S Gas Sensor (only for RN400 T2GS)	
Model	RG10(H2S 50)
Spec	Range : 0 ~ 50 ppm , 15Cm / 6 Pin

Contact Information

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