RADIONODE®

The most innovated data logger

Temperature Data Logger via WiFi

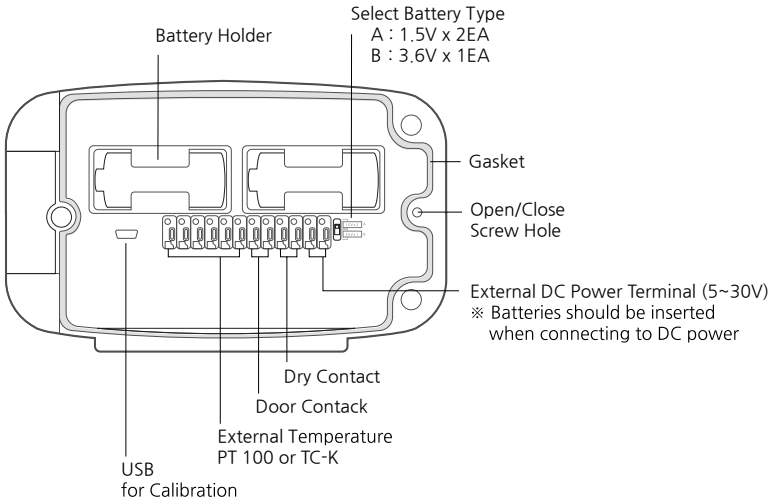
RN400-T2EX

- WiFi support b/g/n 2.4GHz
- 2CH. Temp Input (PT100 or TC-K, TC-T)
- 1CH. Door Input (Wake Up when Open)
- 1CH. Alarm Output (Max Load 1A)
- Fast Detection of Power Outage
- Fast Switch to Battery in Power Outage
- Cloud Storage / HTTP Output via Wifi
- C Type Battery / DC 5~30V
- OLED Display / micro SD / Backup FRAM

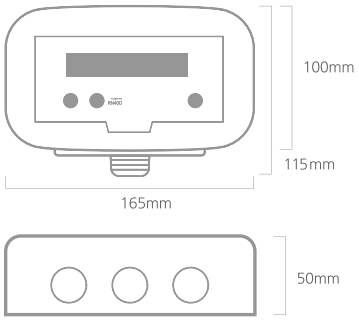


RN400-T2EX is designed to measure 2CH Temperature sensor with 3 wire PT100 or TC-K and to check a magnetic door sensor. All the measured data would be transferred to the destination. While RN400 is in sleep mode, it could be wake with a door open or keypad. Also, it has an alarm output with the range threshold values. Especially RN400-T2EX could detect DC power outage and then switch it to battery mode with reporting to the destination immediately. The destination would be an information system such as public cloud, local server, and even PC. 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



Dimensions



Application

- Food storage sites(refrigerators, freezers)
- Bio-labs
- Building energy usage monitoring
- Medicine and medical goods storage sites
- Semiconductor production lines

Contact Information

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RN400-T2EX Specifications

Communication Method	• 2.4GHz IEEE 802.11 b/g/n up to WPA2-Enterprise • HTTP Get/Post (Radionode V2 Protocol)
External Temp Sensor Input	• CH1: TC-K or PT100 • CH2: TC-K or PT100 CH1: temp CH2: temp
Accuracy	• EX-Temp: ±0.5°C (typical)
Resolution	• EX-Temp: 0.1°C (typical)
Supported Temp. Range	• PT100: -200°C ~ 300°C (-328 ~ 572°F) • TC- K: -30°C ~ 300°C (-22 ~ 572°F) • TC- T: -100°C ~ 50°C (-148~122°F)
Door Sensor Input	NC Door Sensor (Normal Close) CH3: door status 99=Open , 0=Close
Alarm Relay Output	Relay On-Off controlled by user-defined range threshold setting(220V 1A). CH4: Dry Contact
Operating Condition	-20 ~ 60 °C (-4~140°F) / 0 ~ 95 %RH (non-condensing)
Display Type	OLED 20X2 CHAR (Yellow or White)
Sensing Interval	10secs, 1min, 5mins, 10mins, 20mins, 30mins 10 Seconds Mode is supported when customer server mode
Sending Interval	10secs, 30secs, 60secs, 5mins,10mins, 20mins, 30mins, 40mins, 60mins 10 Seconds Mode is supported when customer server mode
Internal Memory	32KByte F-RAM (Automatic Sample Backup available when no wifi) 1,550 Samples/CH
External Memory	Option(16GB microSD, permanent logging)
Backup Battery / LifeSpan	C Type 1.5V X 2EA OR 3.6V Li-SOCL2 X 1EA / 6 month 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

Product Components

- RN400-T2EX Extended Multi-Function Temperature Datalogger
- 2 Type Cable Glands (PG9 1EA/ PG11 2EA)

Optional Accessories

Type	Magnet DOOR Sensor
Model Number	AP-D1
Length	1 M
Spec	NORMAL CLOSE(N.C)
Sensor Values	99.0 : Open 0.0 : Closed

Type	Warning Strobe-Horn
Model Number	AP-W1
Length	30cm
Spec	12V, LED, 85dbA

Type	12V DC Power Adapter
Model Number	AP-P1
Length	3 M
Spec	12V 500mA

Type	PT100	
Model Number	PR-P1-3	PR-P1-15
Cable Length	3M	15M
Size of Sensor Tips	Diameter: 4.8 ø Length: 60.0mm	

Type	TC-K	
Model Number	PR-K1-3	PR-K1-15
Cable Length	3M	15M
Size of Sensor Tips	Diameter: 3.2 ø Length: 60.0mm	

Type	TC-T	
Model Number	PR-T1-3	PR-T1-15
Cable Length	3M	15M
Size of Sensor Tips	Diameter: 3.2 ø Length: 50.0mm	

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