



### **Temperature Data Logger via WiFi**

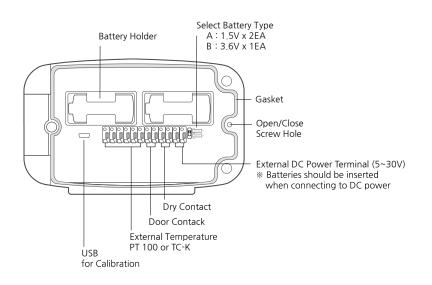
# **RN400-T2EX**

- WiFi support b/g/n 2.4GHz
- 2CH. Temp Input (PT100 or TC-K)
- 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

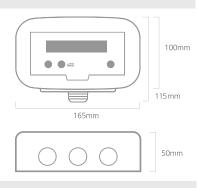


RN400-T2EX is designed to measure 2CH Temperature sensor with 3 wire PT100 or TC-K and to check a magnetic door sensor. All the measured data would be transferred to the destination. While RN400 is in sleep mode, it could be wake with a door open or keypad. Also, it has an alarm output with the range 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**

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





# Temperature Data Logger via WiFi

# 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   • CH2: TC-K or PT100   • CH2: TC-K or PT100   • EX-Temp: ±0.5°C (typical)  Resolution   • EX-Temp: ±0.1°C (typical)  Supported   • PT100: -100 ~ 200 °C (-148~ 392°F)   • TC-K: -40 ~ 300 °C (-40 ~ 572°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: Dy 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  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 wiff)   1,550 Samples/OH  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   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	MIN-00 IZEX	Specifications	
External Temp Sensor Input  - CH2: Tc-K or PT100 CH1: temp CH2: temp  - Accuracy  - EX-Temp: ±0.5°C (typical)  - EX-Temp: ±0.5°C (typical)  - EX-Temp: ±0.5°C (typical)  - PT100: -100 ~ 200 °C (-148~ 392°F) - TC-K: -40 ~ 300 °C (-40 ~ 572°F)  - Door Sensor			
Resolution  • EX-Temp: 0.1°C (typical)  Supported Temp. Range  • PT100: -100 ~ 200 °C (-148~ 392°F) • TC-K: -40 ~ 300 °C (-40 ~ 572°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  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  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 wift) 1,550 Samples/CH  External Memory  Option(16GB microSD, permanent logging)  Backup Battery / LifeSpan  Protection  IP65  External Power / UPS  Setup Software via USB Cable  Wall Mount Types  Magnet & Screw Hole		CH2: TC-K or PT100     CH1: temp	
Supported Temp. Range  • PT100: -100 ~ 200 °C (-148~ 392°F) • TC-K: -40 ~ 300 °C (-40 ~ 572°F)  Door Sensor   NC Door Sensor (Normal Close)   OH3: door status   99=Open, 0=Close    Alarm Relay   Relay On-Off controlled by user-defined range threshold setting( 220V 1A ).   OH4: 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 wift)   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   S-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	Accuracy	• EX-Temp: ±0.5°C (typical)	
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Sending Interval  10 Seconds Mode is supported when customer server mode  10 Seconds Mode is supported when customer server mode  10 Seconds Mode is supported when customer server mode  10 Seconds Mode is supported when customer server mode  22 KByte F-RAM (Automatic Sample Backup available when no wifi) 1,550 Samples/CH  External Memory  Option(16GB microSD, permanent logging)  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	Display Type	OLED 20X2 CHAR (Yellow or White)	
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Backup Battery / LifeSpan	Internal Memory	when no wifi)	
Protection IP65  External Power / UPS Setup Software via USB Cable  Wall Mount Types / 6 month with 1.5V X 2EA @ 10min sensing  Protection IP65  External Power / UPS (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	External Memory	Option(16GB microSD, permanent logging)	
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UPS source is changed into the Battery immediately)  How To Setup PC Setup Software via USB Cable  Wall Mount Types Magnet & Screw Hole	Protection	IP65	
Wall Mount Types Magnet & Screw Hole			
, ,	How To Setup	PC Setup Software via USB Cable	
Weight 352 g	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**

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

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

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

Туре	PT100	
Model Number	PR-P1-3	PR-P1-15
Cable Length/ Diameter	3M	15M
Size of Sensor Tips	Diameter: 4.8ø Length: 60mm	

Туре	TC-K	
Model Number	PR-K1-3	PR-K1-15
Cable Length/ Diameter	3M	15M
Size of Sensor Tips	Diameter: 3.2ø Length: 50mm	