Temp/RH Data Logger via LoRaWAN
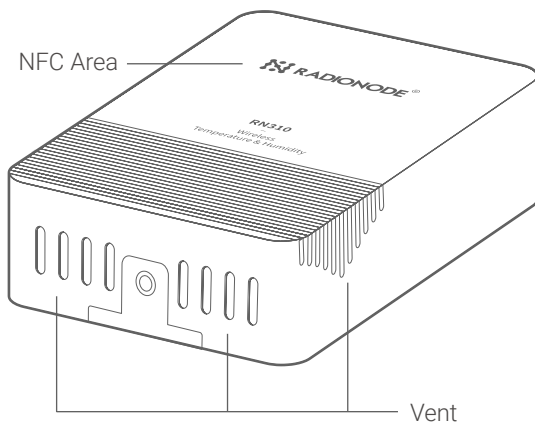
RN310

- Long range data transmission
- LoRaWAN communicataion
- Internal high accurate Temp/RH sensor
- Built-in batteries
- Ultra-low power consumption
- Food-safe material
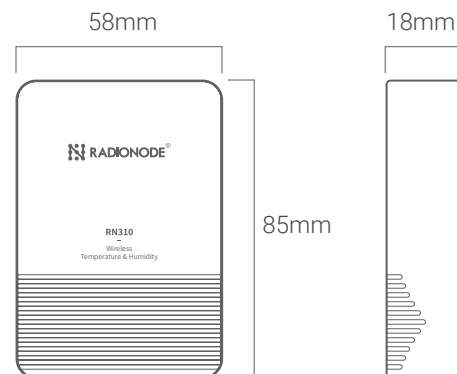- Radionode365 cloud supported

RN310 is a simple, compact and powerful LoRaWAN® temperature & humidity sensor. It is equipped with high-precision sensors and waterproof design, applicable for accurate temperature and humidity data detection in various harsh environments. FDA-approved food-grade material's enclosure allow it to be placed in freezers and refrigerators and in contact with food or medicines safely. In addition to LoRaWAN® technology with low power consumption, it has built-in high-capacity batteries available for usage for up to 5 years. Moreover, RN310 is compatible with both Radioniode LoRaWAN® Gateway and IoT Cloud Radionode365 to achieve remote data monitoring and management.

Hardware

NFC Area

Vent

Dimensions

58mm

18mm

85mm

Certificate

KC

Contact Information

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

RN310 Specifications

Wireless Telecommunications	• LoraWAN ® V1.0.3 ,OTAA/ABP ClassA • CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923 TX : 20dBm / 16dBm / 19dBm Sensitivity : -137 dBm @ 300 bps
Internal Temp/RH sensor	• CH1: Temp (-30 ~ 60°C) • CH2: RH (0 ~ 100%RH)
Accuracy	• Temp.Accuracy : ± 0.2 °C • R.H. Accuracy : ± 2.0 %RH
Resolution	• Temp. Resolution : 0.1 °C • R.H. Resolution : 0.5 %RH
Operating Condition	-30 ~ 60 °C / 5 ~ 95 %RH (non-condensing)
Operation	• Power On & Off: NFC Configuration via Mobile App, Power Button (Internal) • Configuration: NFC Configuration via Mobile App
Material	ABS + PC (Food Grade)
Sensing Interval	1 ~ 1000 mins
Sending Interval	1 ~ 1000 mins
Battery / Life Span	2 X 2700 mAh Li-COCL2 Battery 5 Years @ 10 min interval
Protection	IP65
How To Setup	NFC Configuration via RNtools (Android App.)
Wall Mount Types	Screw Hole(Standard) or Magnet(Option)
Weight	115g

Basic Requirements

1. LoRaWAN Gateway :

Radionode LoraWAN gateway or Others

2."RNtools" : Android App for RN310 configuration

Application

• Cold Storage for Bio,Food

• Agricultural greenhouse

• Building energy usage monitoring

• Medicine and medical goods storage sites

• Semiconductor production lines

Product Components

Model	Component
RN310 (wall bracket)	• RN310 Temp./RH Wireless Transmitter (Including Battery) • Wall Mounting Kits(1EA) • Fixing Screw(2EA)