

## Wireless Temperature Sensor via Zigbee

# RN300-T

- ✓ 2CH Real-Time Temperature Transmitter
- ✓ Support Thermocouple T-type Sensor
- ✓ 2.4GHZ IEEE 802.15.4
- ✓ Low Power Consumption with AA Battery
- ✓ Easy Magnet Wall Mount
- ✓ Support HTTP, Cloud Storage (TP365)



## Product Overview

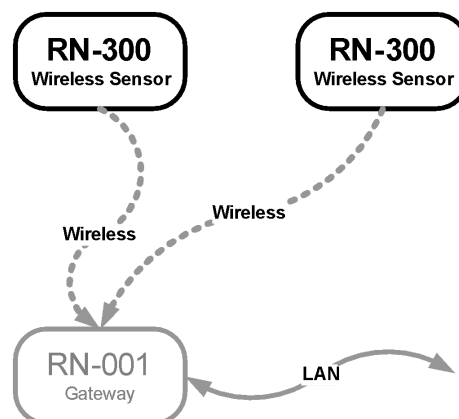
RN300-T is designed to be used for collecting temperature data more convenient way. RN300-T wireless sensor at a specific area keeps transmitting the measurement data to the host device such as radionode RN001.

A transmitting interval is a user defined parameter. Literally, it is wireless. As well as transmitting information, it does not require the power cable. Simply it operates with AA battery for more than one year. Magnet wall mount and modern design make it always suitable for various environments.

## Application

- Food Service
- Live Stock
- Warehouse
- Medical Industry
- Manufacturing Facility
- Server Room

## Block Diagram



## RN300-T Specification

Size	H 116 x W 73 x D 251mm
Communication protocol	IEEE 802.15.4(2.4GHZ , 16 Channel)
Antenna	Internal PCB
Network	Tree Topology
RF Distance	100m (Open Space)
RF Power	TX: 2.5dB, RX: -96dB
Measurement Range	-100 ~ 300°C (-148 ~ 572°F)
Accuracy	± 0.5 °C
Operation Temp.	-40 ~ 80°C (-40 ~ 176°F)
Data transmission interval	Every minute (minimum)
Housing Material	ABS
Power(Consumption)	6V DC or AA Battery x 2EA (41 5uA @ 10 mins)
Battery Lifetime	AA Battery x 2EA (More than 6 months(@ 10 Minute))
Mounting	Magnet
Software Support	<ul style="list-style-type: none"><li>• Tapaculo Lite 128CH recording software on PC Download: <a href="http://www.radionode365.com">www.radionode365.com</a></li><li>• Tapaculo365 Cloud-based web Software Sign-in: <a href="http://s2.tapaculo365.com">s2.tapaculo365.com</a></li></ul>

## Product Components

Model	Component
RN300-T	<ul style="list-style-type: none"><li>• RN300-T (1EA)</li><li>• Thermocouple T-type (1EA)</li></ul>

## Accessories

Type	Model Number	Spec.
Gateway	<b>RN001</b>	<ul style="list-style-type: none"><li>• 2.4GHz, IEEE802.15.4, 10mW</li><li>• 6V DC</li><li>• W 116 x H 73 x D 25 mm</li></ul>
Router	<b>RN200</b>	<ul style="list-style-type: none"><li>• 2.4GHz, IEEE802.15.4, 10mW</li><li>• 6V DC</li><li>• W 69 x H 50 x D 22 mm</li></ul>
Indicator	<b>RN500</b>	<ul style="list-style-type: none"><li>• 2.4GHz, IEEE802.15.4, 10mW</li><li>• 6V DC</li><li>• W 116 x H 73 x D 25 mm</li></ul>
Thermocouple T-type Temperature Sensor	<b>PR-T1-3</b>	<ul style="list-style-type: none"><li>• Measurement Range: -100 ~ 200°C (-148 ~ 392°F)</li><li>• Length: 3 Meter</li></ul>
	<b>PR-T1-15</b>	<ul style="list-style-type: none"><li>• Measurement Range: -100 ~ 200°C (-148 ~ 392°F)</li><li>• Length: 15 Meter</li></ul>

## Contact Information

- [www.radionode365.com](http://www.radionode365.com)
- [master@dekist.com](mailto:master@dekist.com)