Radiance instruments Ltd.

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PRODUCT USER MANUAL

Product number：RT820RF   Product name: Wireless fridge thermometer   version: V1.1

Feature:

- 2.4GHZ wireless fridge thermometer。
- IP65 waterproof for transmitter.
- HIGH/LOW alarm setting.
- Maximum temperature and current temperature reading.
- FCC,CE, NSF and ROHS compliant.
- Low battery indication.
- °C / °F exchange
- Magnetic attachment

Specification:

Measuring range	-25 ~ 50°C/-13 ~ 122 °F
Temperature accuracy	±0.5℃/0.9℉
Display resolution	0.1°
Temperature reading update	10 seconds alarm active，30 seconds normal
Transmitter battery life	About 6000 hours
Receiver battery life	About 4000 hours(no alarm)
Working temperature	25 ~ 50 °C for transmitter, 0 ~ 50 °C for receiver
Wireless distance	50 meters (open field, about 10 meters into the fridge)
Receiver size	65(W) x 97(H) x 20(D) mm
Transmitter size	110(L) x 35(D) x 30(Φ) mm
Receiver display size	37(W) x 37(H) mm
Transmitter battery	3 volt battery, type AAA X 2 or equivalent
Receiver battery	3 volt battery, type AAA X 2 or equivalent

Operation

Put the transmitter into the fridge and put the receiver outside the fridge.

°C / °F exchange

Select the temperature unit °C or °F by the switch on the back side.

Receiver

1） Press [⏻] button to turn on the unit, press the button and hold for 3 seconds to turn off.

2） After about 10 seconds, the receiver will receive the signal from the transmitter and display the temperature. The reading will be update 10 seconds.

Transmitter

1) Press[⏻] button to turn on the unit, red LED flash 5 times, press and hold for 3 seconds to turn off the unit, red LED flash 2 times.

2) In normal working, it will send out the signal each 30 seconds and the LED flash.

Alarm setting

1) Press [🔔] button to turn on or off the alarm monitor.

2) Press [Set] button and hold 5 seconds to enter the low temperature alarm setting mode, the value flash. Press [▲] or [▼] to set the low alarm value. After finish the low alarm setting, press [Set] button once again to enter

the high temperature alarm setting mode, set the value as above. Press the [Set] button to finish alarm setting .

3) When the current temperature lower or higher the limited, the alarm sound active and LED flash. Press any key to silent, but the LED flash continue, until the temperature come back to the safe rang.

● When the alarm sound active 60 seconds continue, the sound will be silent 30 seconds and sound "bi、bi"。

Maximum temperature clear

1) Press[▲] and [▼] buttons for 3 seconds to clear the maximum temperature.

Code rematch

1）The transmitter has paired with the receiver before delivery. If you want to rematch the unit code, turn off the receiver at first, then press and hold [⏻] button for 5 seconds to enter the code rematch mode. "Sync" icon display。

2）Turn off the transmitter at first，then press and hold [⏻] button for 5 seconds to enter the code rematch mode。

3）The unit will be store the code automatically and then return to the normal working mode。

ERROR SYMBOLS:

Symbol	Description	Action required
⌐ ⚡	Transmitter low battery voltage	Replace the battery with the same type
R ⚡	Receiver low battery voltage	Replace the battery with the same type
LLL.L	1) Sensor open circuit 2) The reading is out of low range (-50°C/-58°F)	1) Return the thermometer for repair 2) Keep the measurement above low range
HHH.H	1) Sensor short circuit 2) The reading is out of high range (70°C/158°F)	1) Return the thermometer for repair 2) Keep the measurement below high range
Sync	Code rematch	

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This device complies with Industry Canada Licence-exempt RSSs. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference, including interference that m

ay cause undesired operation of the device. Le présent appareil est conforme aux CNR d'Industrie Canada applicable aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Changes or Modifications not expressly approved by the party responsible could void the user's authority to operate this device.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

TRANSMITTER FCC ID: 2AI67-*820T*   /   **IC**: 22116-820T

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