

Product manual

Product name: 2.4G Zigbee

Model: PT-001-A1

A. Explanation:

This temperature monitoring product can be applied to the temperature monitoring of various ice water hosts

In addition, the temperature can be transmitted in real time through wireless, and the temperature can be returned to the cloud back-end database for temperature curve analysis. After the analysis, determine whether the ice water host is working properly!

B. Power supply precautions:

1. The positive and negative polarities of the power supply have been locked to the terminals before leaving the factory (Figure 1).

Or arbitrarily reinstall the power supply. If the product is damaged, please be responsible for the maintenance costs!

2. It must be noted that the external voltage input cannot be greater than DC24V, and it must not be smaller than DC15V.

C. Rated voltage and current

1. You can use any type of DC power supply commercially available, but please refer to the voltage

Only between +15VDC-+24VDC!

2. The current must be greater than 0.35A

D. The RF isolation wire and the RF antenna bracket are installed and calibrated before leaving the factory. Do not change or replace them at will!

E. The temperature detection sensor is also calibrated by the laboratory before leaving the factory. Do not replace it randomly. If there is any problem

Call Huakai Optoelectronics.

F. If you have any technical problems, please call Huakai Optoelectronics Communication Company.

G. RF frequency used: 2405MHZ ~ 2480MHZ

Maximum current consumption DC15V / 0.2A

H. In the end, please don't remove the cover of the wireless thermometer (Figure 2) without any need to avoid any dust, etc.

Avoid damage!

I. General equipment (Articles 12 and 14 of the Measures for the Administration of Low Power Radio Wave Radiated Motors)

-Low-power RF motors that have passed the type approval are not allowed to change the frequency, increase the power, or change the characteristics and functions of the original design without permission.

--- The use of low-power RF motors must not affect the safety of aviation and interfere with legal communications: When interference is found, it should be stopped immediately and improved to no interference before continued use. The legal communication in the preceding paragraph refers to radio communication low-power radio frequency motors operating in accordance with the provisions of the Telecommunications Law.

C.Federal Communication Commission Interference Statement

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.

FCC Caution (15.19 statement)

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.

Non-modification Statement:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Professional Installation Instructions

This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

Installation Notes

The installation method of PT-001-A1 is as follows

1. Generally, the ice water pipe or the ice water host will open the holes first.
2. Then insert PT-001-A1 into the hole. The front end of PT-001-A1 is a platinum high-precision sensor rod with a length of about 10-15 cm(Figure III).. Insert the sensor rod to the bottom of the hole. There must be no Gap, which will cause measurement errors
3. If the hole is less than 10-15 cm, the sensor rod must be cut to make it optimally installed. (Figure IV).
4. After installation, plug in the power supply and start measuring temperature

Figure 1

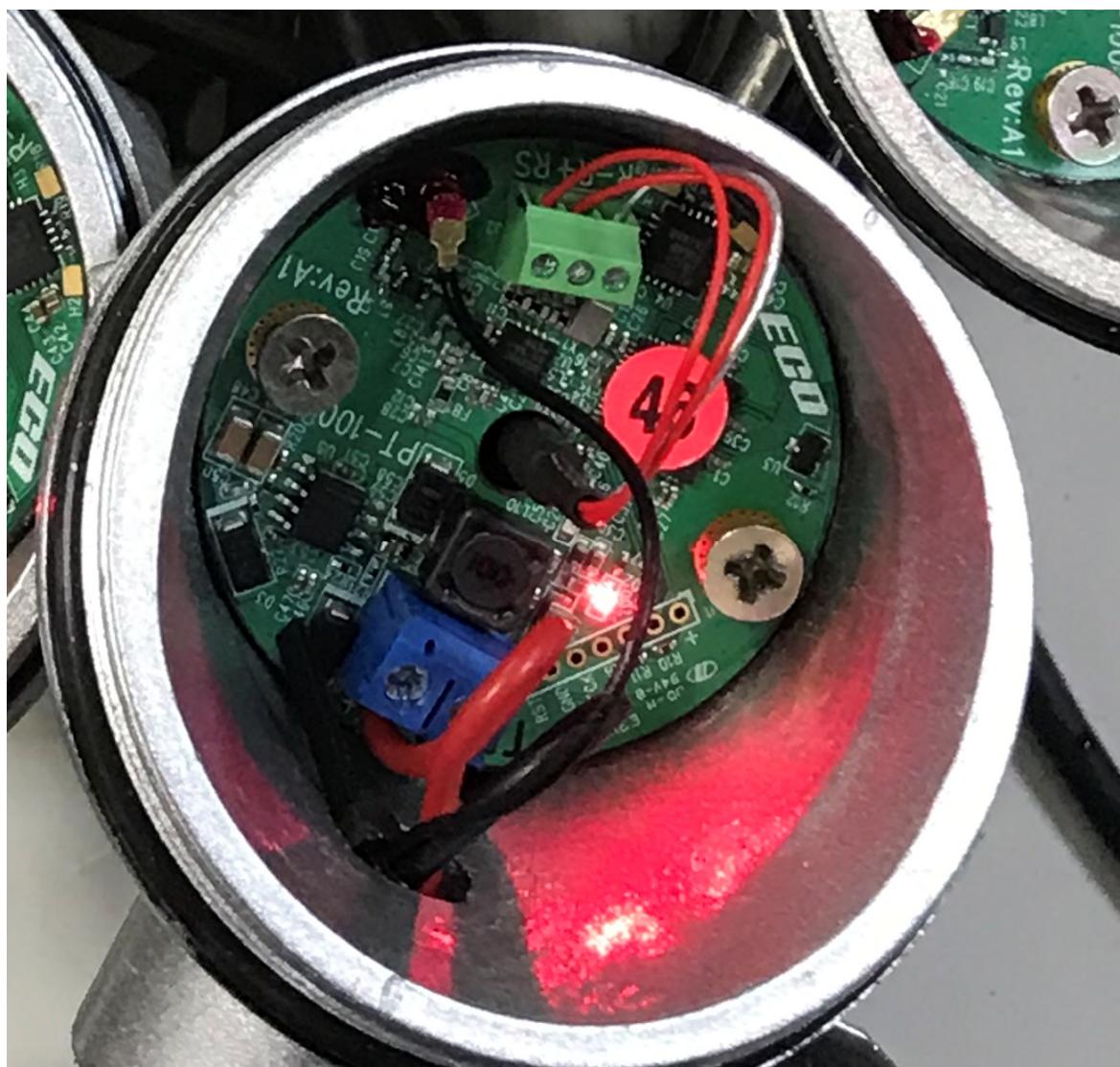


Figure II



Figure III



Figure IV

