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> Circrane AZ-001 Solar Wireless Pool Thermometer User Manual

## Circrane AZ-001

# Circrane AZ-001 Solar Wireless Pool Thermometer User Manual

Model: AZ-001 | Brand: Circrane

## INTRODUCTION

Thank you for choosing the Circrane AZ-001 Solar Wireless Pool Thermometer. This device is designed to provide accurate and convenient water temperature readings for various applications, including swimming pools, hot tubs, ice baths, and aquariums. Featuring solar power, a clear digital display, and IPX8 waterproofing, this thermometer ensures reliable performance and ease of use. Please read this manual thoroughly before operation to ensure proper setup and optimal functionality.

## PACKAGE CONTENTS

- 1 x Circrane Solar Wireless Pool Thermometer (Transmitter)
- 1 x Thermometer Monitor (Receiver)
- 1 x USB-C Charging Cable
- 1 x User Manual

## PRODUCT OVERVIEW

The Circrane AZ-001 system consists of two main components: the floating pool thermometer (transmitter) and the indoor monitor (receiver). The transmitter measures water temperature and transmits it wirelessly to the receiver, which displays both water and indoor temperatures.



Image 1: The Cirrane Solar Wireless Pool Thermometer (left) and its indoor receiver (right).

### Transmitter (Pool Thermometer)

- **Solar Panel:** Charges the internal lithium-ion battery.
- **Digital Display:** Shows current water temperature.
- **Function Button:** Used for power on/off and switching temperature units.
- **USB-C Port:** For alternative charging.
- **IPX8 Waterproof:** Designed for continuous submersion in water.

### Receiver (Indoor Monitor)

- **LCD Display:** Shows water temperature (OUT) and indoor temperature (IN).
- **Buttons:** For setting temperature units, viewing MAX/MIN records, and channel selection.
- **Battery Compartment:** For AAA batteries (included).

# The Content Of Display

## Transmitter



## Receiver

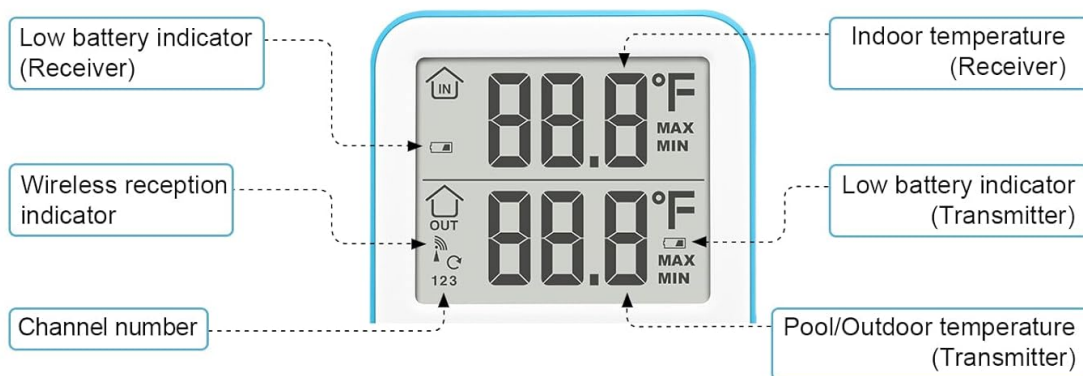


Image 2: Detailed view of the transmitter and receiver displays, indicating various indicators and temperature readings.

## SETUP

### 1. Transmitter (Pool Thermometer) Setup

- Power On:** The transmitter is solar-powered and typically powers on automatically when exposed to light. If it does not turn on, ensure it has sufficient solar charge or connect it to a USB-C charger.
- Change Temperature Unit:** After powering on, press the function button on the transmitter to switch between Celsius (°C) and Fahrenheit (°F).
- Placement:** Place the transmitter in the water (pool, hot tub, etc.). Ensure the solar panel is exposed to sunlight for continuous charging.

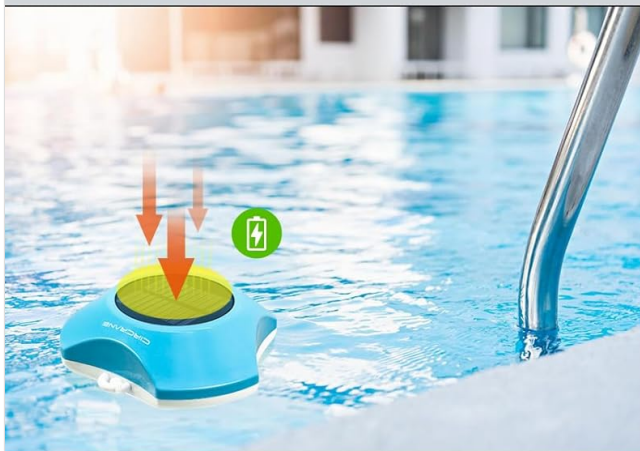
## Updated With A Larger Solar Panel



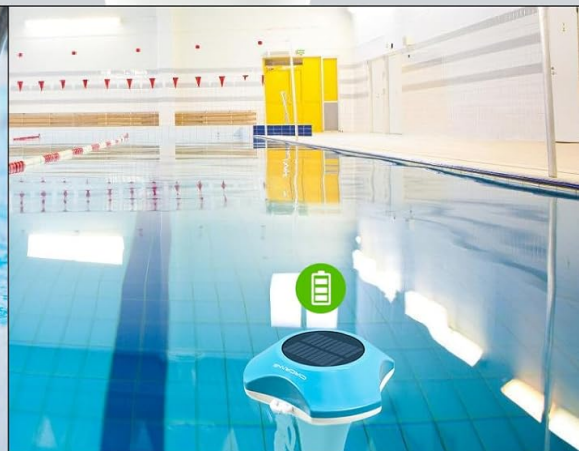
SH-PT-001



SH-PT-002



Built in rechargeable battery, standard charging power is 0.25W and could fully charged in 20-30 hours under sunlight.



When used indoors, the battery life could reach 5-6 months without solar charging.

Image 3: The pool thermometer features a larger solar panel for efficient charging, ensuring extended battery life.

## 2. Receiver (Indoor Monitor) Setup

1. **Install Batteries:** Open the battery compartment on the back of the receiver and insert 2 AAA batteries (included), observing the correct polarity.
2. **Power On:** The receiver will power on automatically once batteries are installed.
3. **Placement:** Place the receiver in a convenient indoor location, ensuring it is within the wireless transmission range of the transmitter.

## 3. Device Pairing

The transmitter and receiver are typically pre-paired at the factory. If pairing is required or connection is lost:

1. Ensure both the transmitter and receiver are powered on.
2. Bring the transmitter and receiver within 1 meter (3 feet) of each other.
3. Press the function button on the transmitter once. The receiver should display the water temperature, indicating successful pairing.

## OPERATING INSTRUCTIONS

## Temperature Monitoring

- The receiver displays the water temperature (OUT) from the transmitter and the ambient indoor temperature (IN).
- The temperature refreshes every 10 seconds for quick readings.
- Press the 'MAX/MIN' button on the receiver to view the highest and lowest recorded temperatures. Press again to cycle through.
- Press the '°F/°C' button on the receiver to switch the display unit between Fahrenheit and Celsius.



Image 4: Key features of the Circrane wireless thermometer, highlighting quick temperature reads, maximum/minimum temperature records, and Celsius/Fahrenheit switching.

## MAINTENANCE

### Charging

- The transmitter is primarily solar-powered. Ensure the solar panel is clean and exposed to direct sunlight for optimal charging.
- For faster charging or during periods of low sunlight, use the provided USB-C cable to charge the transmitter.
- The receiver is powered by 2 AAA batteries. Replace them when the low battery indicator appears on the

display.

## Waterproofing

The transmitter is IPX8 waterproof, meaning it can withstand continuous immersion in water. Ensure the USB-C port cover is securely closed to maintain its waterproof integrity.

## Cleaning

Wipe both the transmitter and receiver with a soft, damp cloth. Do not use abrasive cleaners or solvents.

## TROUBLESHOOTING

- **No Temperature Reading on Receiver:**

- Ensure both units are powered on.
- Check battery levels in both units.
- Bring units closer together to ensure they are within the 300ft wireless transmission range.
- Re-pair the devices if necessary (refer to Device Pairing section).

- **Inaccurate Temperature:**

- Ensure the transmitter is fully submerged in the water.
- Allow sufficient time for the thermometer to stabilize in the water (typically a few minutes).

- **Transmitter Not Charging:**

- Ensure the solar panel is clean and exposed to direct sunlight.
- Try charging via the USB-C cable.

## SPECIFICATIONS

Feature	Detail
Model Number	AZ-001
Power Source (Transmitter)	Solar Powered, 1 Lithium Ion battery (included)
Power Source (Receiver)	2 AAA batteries (included)
Measurement Accuracy	+/-1.8 Fahrenheit
Display Style	Digital
Waterproof Rating	IPX8
Wireless Transmission Distance	Up to 300ft (in open field)
Material	Acrylonitrile Butadiene Styrene
Item Weight	372 g
Parcel Dimensions	21.01 x 12.5 x 11.99 cm

## Dimensions



Image 5: Detailed dimensions of the transmitter and receiver units.

## Distance Of Wireless Transmission

Using 433MHZ as transmission frequency, passed FCC certification to ensure your safety in usage. In testing, the transmission distance can reach 300 FT within free field. (The actual transmission distance will reduced due to the obstruction of objects or walls.)



Image 6: Illustration of the wireless transmission range, indicating up to 300 feet in an open field.

## WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or contact Cirrane customer service directly. Keep your purchase receipt as proof of purchase.