
Ambient Weather TX-3107 7-Channel Floating Pool and Spa Thermometer User Manual



Table of Contents

1. Introduction.....	1
2. Getting Started	2
2.1 Parts List.....	2
2.2 Product Overview.....	2
2.3 Getting Started.....	3
2.4 Opening and Closing the Lid.....	5
2.5 LCD Display	6
2.5.1 Low Battery Icon.....	6
3. Synchronizing with your Display Console.....	6
4. Sensor Placement	6
5. Maintenance.....	7
6. Specifications.....	7
6.1 Measurement Specifications.....	7
6.2 Power Consumption	7
6.3 Weight Specifications.....	7
7. Troubleshooting Guide.....	7
8. Liability Disclaimer	9
9. FCC Statement	9
10. Warranty Information	10

1. Introduction

Thank you for your purchase of the Ambient Weather TX-3107 7-Channel Floating Pool and Spa Thermometer. This is an accessory or replacement for your exiting Display Console or Weather Station. This is not a standalone device.

The following user guide provides step by step instructions for installation, operation and troubleshooting. To download the latest full sized manual and additional troubleshooting tips, please visit:

AmbientWeather.net/help

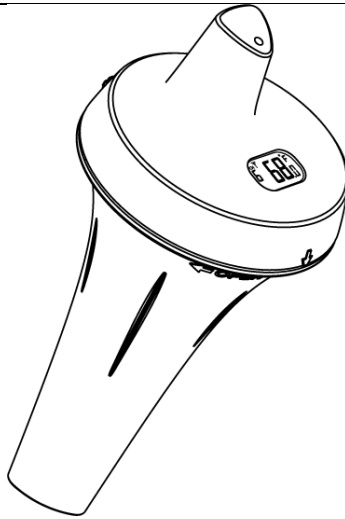


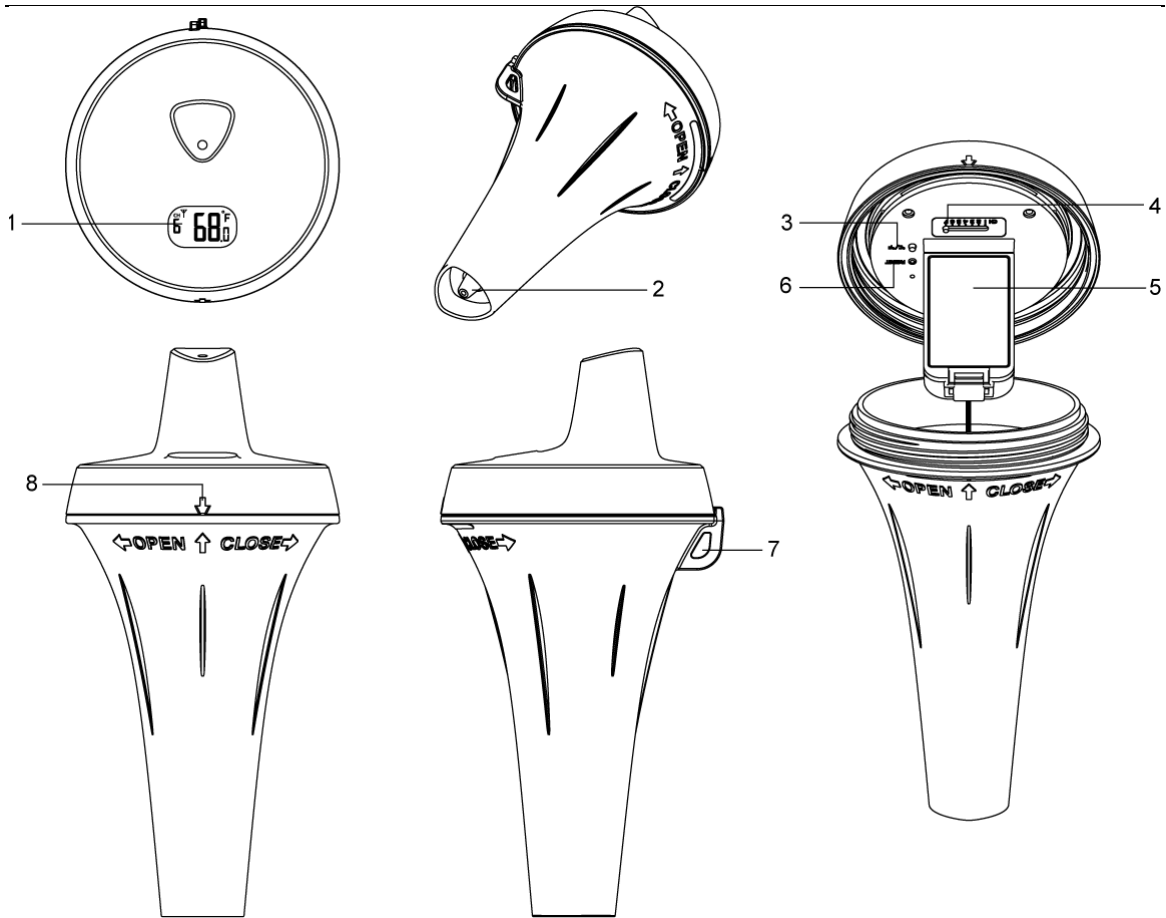
Figure 1

2. Getting Started

2.1 Parts List

QTY	Item
1	Floating Pool and Spa Thermometer Dimensions (L x W x H): 100 x 100 x 207.5 mm (3.94 x 3.94 x 8.17 inches)
1	User Manual

2.2 Product Overview

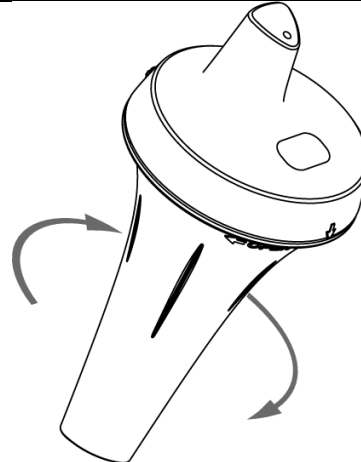


1	LCD display	5	Battery compartment. Accommodates 2 x AA batteries (alkaline or Lithium recommended).
2	Thermometer sensor	6	RESET button.
3	°C / °F button	7	Tether anchor
4	CHANNEL slide switch Assign each sensor to a different channel 1, 2, 3, 4, 5, 6 or 7. Press RESET after selecting the channel.	8	Lid Lock indicator.

Figure 2

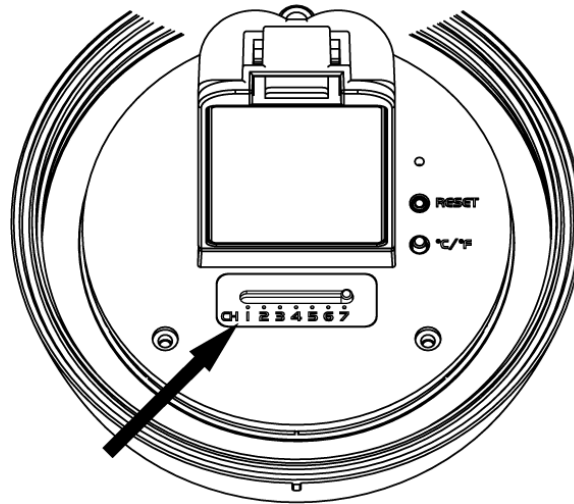
2.3 Getting Started

To open, turn the base clockwise, or the lid counter-clockwise (like the lid of a jar).

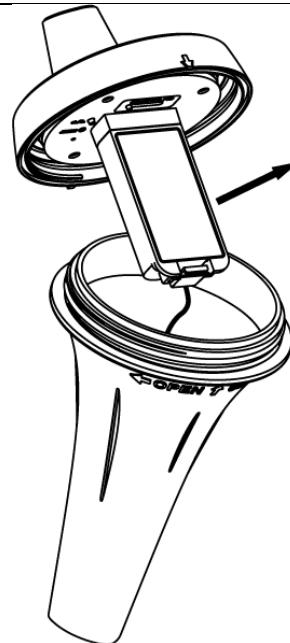


Select the sensor channel 1-7. Press the RESET button if the batteries are already inserted.

NOTE - Once the channel is assigned, you can only change it by removing the batteries or resetting the unit.



Remove the battery door.



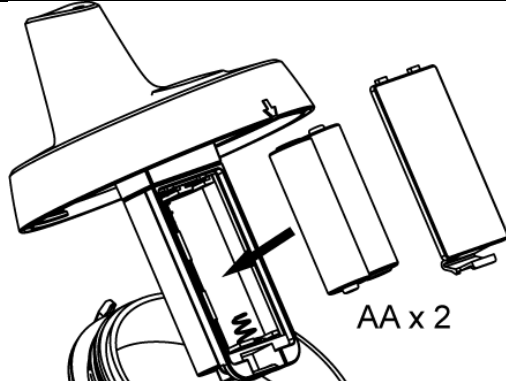
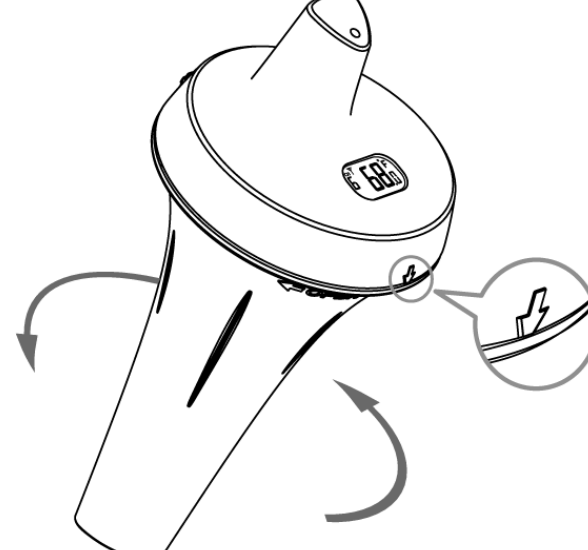
<p>Insert fresh 2 x AA batteries (alkaline or lithium recommended) and close the battery door.</p>	
<p>Close the thermometer. Turn the base counter-clockwise, or the lid clockwise (like the lid of a jar).</p> <p>Make sure the top and button lock indicator align to complete the setup.</p> <p>NOTE: Visibly inspect the water tight O-ring, and make sure it is properly seated to prevent leakage.</p> <p>NOTE: Do not twist the sensor cable when closing the unit.</p>	

Figure 3

2.4 Opening and Closing the Lid

Before closing the lid:

- Ensure the unit is completely dry inside to avoid trapping any moisture.
- Carefully place both O-rings back into their respective traces, and apply waterproof silicone lubricant or grease each time you replace the batteries (available at your local pool store or online).
- Ensure the outer O-ring is properly placed inside its trace when closing the casing.

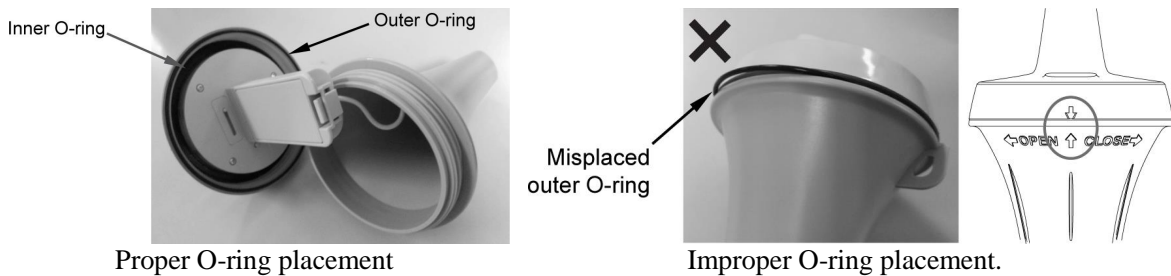


Figure 4

- Close the casing tightly so the two vertical arrows align vertically and pointing to each other (circled in gray, Figure 4).

- Water droplets may condense on the LCD if moisture is trapped inside the unit. Just leave the unit open and let the droplet evaporate naturally before closing the lid

2.5 LCD Display

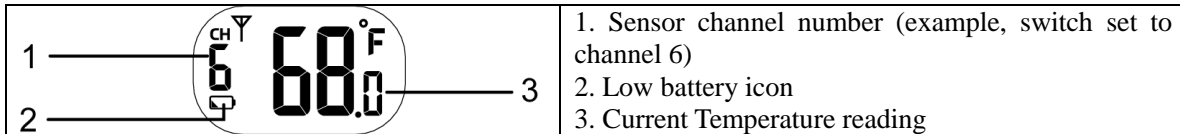



Figure 5

2.5.1 Low Battery Icon

If the sensor is low in battery, the low battery icon  will appear on the sensor LCD and the display console.

NOTE:

On the display console, the low battery icon will only appear when the corresponding channel is displayed.

3. Synchronizing with your Display Console

Refer to the User Manual for your display console to locate specific buttons. After installing the batteries in the wireless thermometer, place the sensor about 10 feet from the display console, and press the **SENSOR** button on the console to manually receive the sensor signal.

The signal icon will flash until the reception is successful. If no signal is received within 5 minutes, the icon will disappear.

NOTES:

If the signal for Channel 1~7 is lost and does not recover for 15 minutes, the temperature will display “Er” for the corresponding channel.

If the signal does not recover for 48 hours, the “Er” display will display all of the time. Replace the sensor batteries and press the **SENSOR** button on the console to pair again.

4. Sensor Placement

1. Place the sensor in the pool or spa within 100 feet of the display console.
2. Avoid transmitting through solid earth or ground (Figure 6, X)
3. Use a tether (string) to fix the sensor in the pool or spa.
4. Place the console at least three feet away from computers, TVs and wireless phones.
5. Avoid transmitting through solid metal barriers.

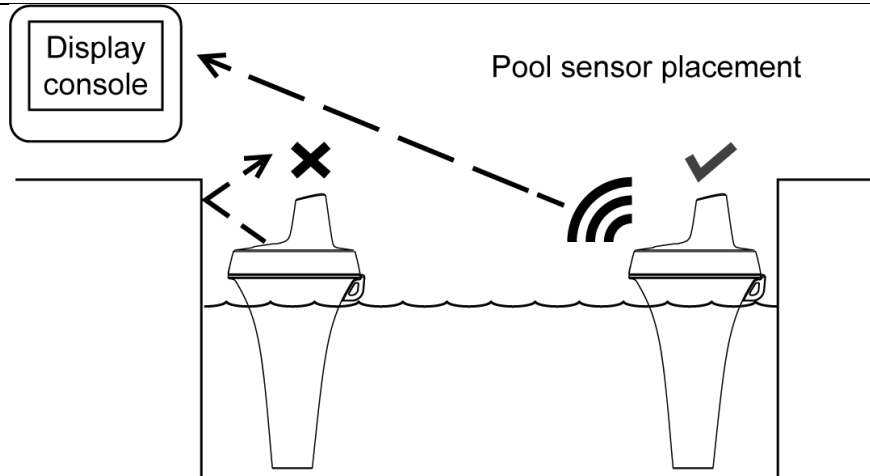


Figure 6

5. Maintenance

Apply waterproof silicone lubricant or grease each time you replace the batteries (available at your local pool store or online).

6. Specifications

6.1 Measurement Specifications

The following table provides specifications for the measured parameters.

Measurement	Range	Accuracy	Resolution
Temperature	-4 to 140 °F alkaline batteries	32 to 104°F: $\pm 1.8^{\circ}\text{F}$ (0 to 40°C: $\pm 1^{\circ}\text{C}$)	0.1 °F/°C
	-40 to 140 °F Lithium e2 Energizer batteries	< 32 °F: $\pm 3.6^{\circ}\text{F}$ (<0°C: $\pm 2^{\circ}\text{C}$)	
	Use not recommended below freezing temperatures for prolonged periods of time.	> 104 °F: $\pm 3.6^{\circ}\text{F}$ (> 40°C: $\pm 2^{\circ}\text{C}$)	

6.2 Power Consumption

Wireless Sensor: 2 x AA Alkaline or Lithium Energizer (not included)

6.3 Weight Specifications

Wireless Sensor: About one pound.

7. Troubleshooting Guide

If your question is not answered here, you can contact us as follows:

1. Email Support: support@ambientweather.com
2. Technical Support: 480-346-3380 (M-F 8am to 3pm Arizona Time). Note that Arizona does

not observe Daylight Savings Time.

3. Please visit AmbientWeather.net/help for assistance.
- 4.

Problem	Solution
<p>Wireless remote (floating thermometer) not reporting in to console.</p> <p>There are dashes (---) on the display console.</p>	<p>The maximum line of sight communication range is 150' line of sight and 100' under most conditions. Move the console closer to the sensor.</p> <p>If the sensor is too close (less than 5'), move the sensor assembly away from the display console.</p> <p>Make sure the wireless sensor LCD display is working..</p> <p>Install a fresh set of batteries in the remote thermometer. For cold water environments, install lithium batteries.</p> <p>Make sure the remote sensors are not transmitting through solid metal (acts as an RF shield), or earth barrier (down a hill).</p> <p>Move the display console around electrical noise generating devices, such as computers, TVs and other wireless transmitters or receivers.</p> <p>Use the tether to fix the sensor as close as possible to the console without transmitting through Earth or ground.</p>
<p>Pool float does not power up.</p>	<p>If the pool sensor display does not power up after inserting the batteries, press the reset button.</p>
<p>LCD display fading or unreadable.</p>	<p>Replace batteries in the floating thermometer.</p> <p>Extreme heat or cold will cause the display to fade but does not affect the wireless functionality. Bring into house to restore display.</p>
<p>Moisture appears in LCD Screen</p>	<p>Remove from the water, open the lid and allow the sensor cavity to dry out.</p>

8. Liability Disclaimer

Please help in the preservation of the environment and return used batteries to an authorized depot. The electrical and electronic wastes contain hazardous substances. Disposal of electronic waste in wild country and/or in unauthorized grounds strongly damages the environment.

Reading the “User manual” is highly recommended. The manufacturer and supplier cannot accept any responsibility for any incorrect readings and any consequences that occur should an inaccurate reading take place.

This product is designed for use in the home only as indication of weather conditions. This product is not to be used for medical purposes or for public information.

The specifications of this product may change without prior notice.

This product is not a toy. Keep out of the reach of children.

No part of this manual may be reproduced without written authorization of the manufacturer.

Ambient, LLC WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT.

9. FCC Statement

Statement according to FCC part 15.19:

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

Statement according to FCC part 15.21:

Modifications not expressly approved by this company could void the user's authority to operate the equipment.

Statement according to FCC part 15.105:

NOTE: 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.

The Responsible party:

Company Name: Ambient, LLC

Address : 6845 W. Frye Road Chandler, AZ 85226

10. Warranty Information

Ambient, LLC provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

This limited warranty begins on the original date of purchase, is valid only on products purchased and only to the original purchaser of this product. To receive warranty service, the purchaser must contact Ambient, LLC for problem determination and service procedures.

Warranty service can only be performed by an Ambient, LLC. The original dated bill of sale must be presented upon request as proof of purchase to Ambient, LLC.

Your Ambient, LLC warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (lack of reasonable and necessary maintenance); (2) damage resulting from failure to follow instructions contained in your owner's manual; (3) damage resulting from the performance of repairs or alterations by someone other than an authorized Ambient, LLC authorized service center; (4) units used for other than home use (5) applications and uses that this product was not intended (6) the products inability to receive a signal due to any source of interference or metal obstructions and (7) extreme acts of nature, such as lightning strikes or floods.

This warranty covers only actual defects within the product itself, and does not cover the cost of installation or removal from a fixed installation, normal set-up or adjustments, claims based on misrepresentation by the seller or performance variations resulting from installation-related circumstances.

