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# Ambient Weather WS-2063 Indoor Temperature and Humidity Monitor with Backlight User Manual



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## 1. Introduction

Thank you for your purchase of the Ambient Weather WS-2063 Indoor Temperature and Humidity Monitor with Backlight. 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:

<http://ambientweather.wikispaces.com/ws2063>

## 2. Getting Started

### 2.1 Monitor Features

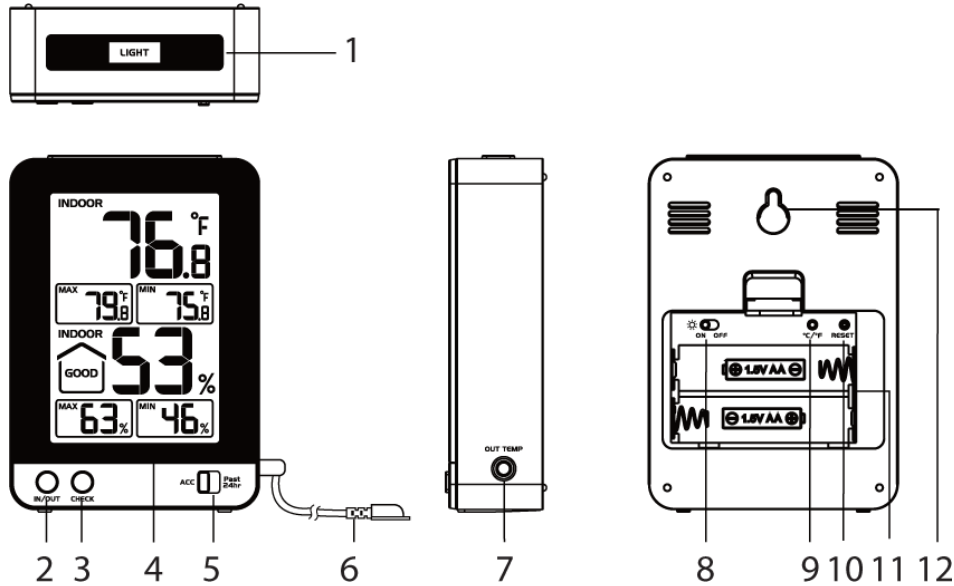


Figure 1

No	Description	No	Description
1	<b>LIGHT</b> Button. Press to turn on the back light for 5 seconds.	7	<b>OUT TEMP</b> sensor (optional) jack.
2	<b>IN/ OUT</b> button. - When the optional probe is connected, press to switch between the indoor and probe temperature. - Press and hold for 2 seconds to scroll between indoor and probe temperature automatically every 5 seconds. Press again to stop the scroll mode.	8	<b>NIGHT ON/OFF</b> slide switch. Slide to the <b>ON</b> position to activate the night light feature. - When the switch is <b>ON</b> , the backlight will turn on automatically when the room is dim or dark. - Slide to <b>OFF</b> to turn the backlight feature off.
3	<b>CHECK/RESET</b> button. - Press to instantly check the current temperature, humidity and low battery. - Press and hold for 2 seconds to reset the minimum and maximum data.	9	<b>°C / °F</b> button - Press it to switch between Celsius and Fahrenheit.
4	LCD Display	10	<b>RESET</b> button - Press to restore to default values. - Press to begin 24 hour minimum and maximum timer.
5	<b>MANUAL/Past 24hr</b> slide switch. - Slide to <b>MANUAL</b> to record the minimum and maximum between manual resets. - Slide to <b>Past 24hr</b> to record the minimum and maximum every 24 hours (based on power up or manual reset).	11	Battery compartment
6	<b>OUT TEMP</b> sensor (optional)	12	Suspension eye for mounting to a wall.

No	Description	No	Description
	- Plug in the optional probe to measure the probe temperature.		

## 2.2 Parts List

QTY	Item
1	Monitor Frame Dimensions: 2.8(W) x 4.05(H) x 1.06(D) in
1	User Manual

## 2.3 Powering Up

1. Remove the battery door on the top of the monitor and insert 2 new AA batteries, according to the polarity information marked on the battery compartment, and replace the battery door.
2. Once the batteries are inserted, all of the LCD segments will light up briefly.
3. The 24 hour timer will begin for resetting the minimum and maximum temperature and humidity.
4. Allow a few minutes for temperature to stabilize, and approximately 20 minutes for the humidity to stabilize.

## 3. Monitor Display

### 3.1 Temperature Display

When you plug in the optional temperature probe, the display will automatically switch to the probe temperature.

When the temperature is below -40°F, the icon **LO** appears on display.

When the temperature is above 158°F, the icon **HI** appears on display.

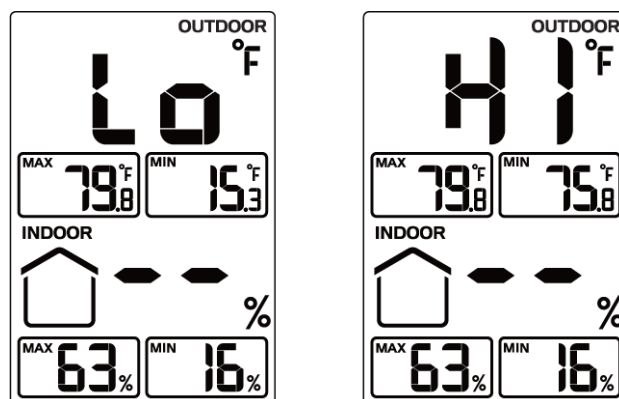


Figure 2

### 3.2 Humidity Display

The house humidity icon identifies high and low humidity conditions.

When the relative humidity is less than 30%, **LOW** is displayed.

When the relative humidity is between 30% and 50%, this is considered in the good range.

When the humidity is greater than 50%, **HIGH** is displayed.



**Figure 3**

A healthy humidity level is one that measures between 30% and 50%. Humidity that measures above 50% creates a breeding ground for mold, dust mites, bacteria, and other pests. Humidity that measures below 30% increases the likelihood that cold and flu viruses will spread while also leading to uncomfortable respiratory symptoms. Too-dry air can also cause damage to your home's foundation and certain furnishings. To avoid the problems of too little or too high humidity, we recommend you maintain a humidity level of between 45% and 50%.

## 4. Specifications and Accuracy

### 4.1 Measurement Specifications

The following table provides specifications for the measured parameters.

Measurement	Range	Accuracy	Resolution
Indoor Temperature	32 to 113 °F	± 2 °F	0.1
Probe Temperature	-4 to 140 °F	± 2 °F	0.1
Humidity	1 to 99%	± 5% of full scale between 10 and 95%	1

### 4.2 Power Consumption

- Monitor: 2 x AA Alkaline batteries recommended.

## 5. Troubleshooting Guide

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

1. Email Support: [support@ambientweather.com](mailto:support@ambientweather.com)
2. Technical Support: 480-346-3380 (M-F 8am to 4pm Arizona Time)

<b>Problem</b>	<b>Solution</b>
Humidity is inaccurate	<p>Humidity is a difficult parameter to measure electronically and drifts over time due to contamination. Even the most expensive hygrometers are only accurate to <math>\pm 3\%</math> of full scale.</p> <p>In addition, location has an adverse effect on humidity readings. Note that indoor and outdoor humidity varies greatly indoors, outdoors and location to location, so you cannot accurately compare your humidity to official weather station sources, such as the news or National Weather Service.</p> <p>Use a calibrated source, such as a sling psychrometer for comparison.</p>
Temperature is inaccurate	<p>Temperature errors can occur when a sensor is placed too close to a heat source. To verify temperature accuracy, we recommend a mercury or red spirit (fluid) thermometer. Bi-metal (dial thermometers or thermostats) and other digital thermometers are not a good source and have their own margin of error.</p>
Display is dim	Replace the batteries.
Monitor locks up or exhibits unusual operation	Press the reset button.

## 6. 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.**

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## 7. 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 a 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.

