

Ambient Weather WH31-SRS Temperature and Humidity Solar Radiation Shield



Table of Contents

1	Introduction.....	1
2	Part's List.....	2
3	Dimensions	2
4	Tools and Materials Needed	3
5	Location Tips	3
6	Installation Options	3
7	Installation	3
8	Compatible Sensors and Accessories	5
9	Ambient Weather Network.....	6
10	Liability Disclaimer	6
11	Warranty Information.....	6
12	California Prop 65.....	8

1 Introduction


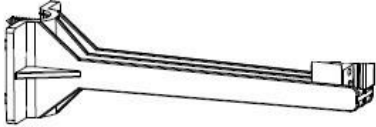






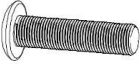
This instruction manual will take you step-by-step through the process of assembling and mounting Ambient Weather WH31-SRS Temperature and Humidity Radiation Shield.

The WH31-SRS temperature and humidity radiation shields are low-cost solutions for protecting temperature and relative humidity sensors, while at the same time minimizing direct exposure to sunlight. The passive shield is shaped to allow natural air convection around the sensor so that the air temperature inside the shield is a good representation of the outside air. The shield also provides protection from rain and snow.

The WH31-SRS radiation shields fit most temperature and humidity sensors sold by Ambient Weather.

The WH31-SRS are designed with a highly reflective white surface to reflect the sun's direct radiation. The multi-plate design allows for maximum airflow. The mounting arm can be mounted to any vertical surface.

2 Part's List

QTY		Item
1		WH31-SRS
1		WH31-SRS mounting arm
1		~ 1 7/32" (31mm) screw
1		~ 3/8" (10mm) screw
1		SRS to mounting arm attachment bracket.
1		User manual
4		Mounting Screws
4		Wall mount anchors
4		5/16" (8mm) nut
4		~ 1 31/32" (50mm) screw.

3 Dimensions

WH31-SRS Dimensions

Inner Dimensions (L x W) WH31-SRS: 6.125" x 2.75"

Bracket Dimensions (L x W x H): 7" x 2.125" x 1.75"

4 Tools and Materials Needed

- 5/16" Wrench
- Drill with 1/8" to 9/64" for mount without anchors
- Drill with 1/4" to 5/16" for mount with anchors

5 Location Tips

- The radiation shield must be placed away from large radiant heat sources, such as sun exposed buildings.
- The radiation shield should be placed in an open area to insure unrestricted air flow or wind.
- Do not install over or near sprinklers. Continuous moisture may damage the temperature sensor.

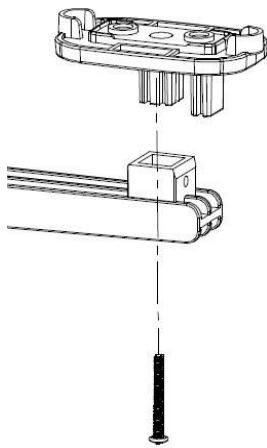
6 Installation Options

There are two different mounting configurations for the radiation shield:

- Pole or metal pipe with outside diameter between 1" and 1 1/4"
- On the side or top of a wooden post

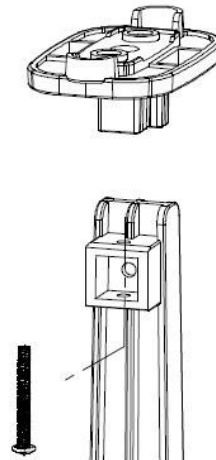
7 Installation

Step 1. Attach the mounting arm attachment bracket to the mounting arm.



Horizontal Installation

Figure 1



Vertical Installation

Figure 2

Step 2: Place the sensor inside the Solar Radiation Shield, as shown in Figure 3.

Note: Sensor is not secured inside the solar radiation shield until attached to the sensor mounting arm.

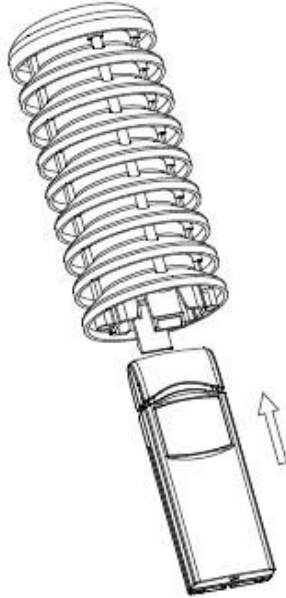
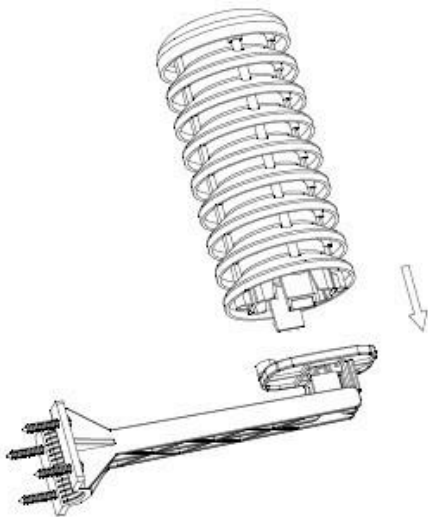
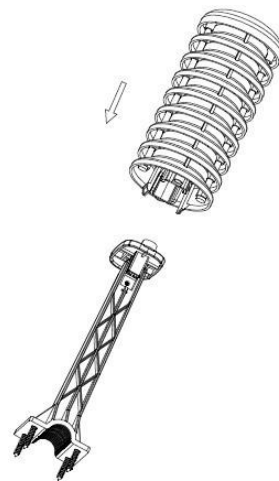


Figure 3

Step 3: Attach the Solar Radiation Shield to the sensor mounting arm by clicking the tabs into place, as shown in Figure 4 and Figure 5



Horizontal Installation
Figure 4



Vertical Installation
Figure 5

Step 4: Attached WH31-SRS to a pole or a wooden post, as in figure 6 and 7

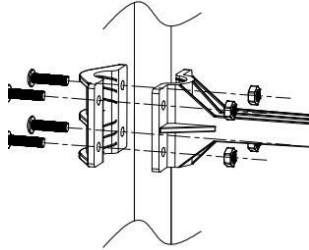


Figure 6

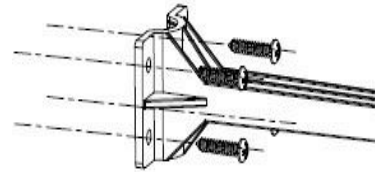


Figure 7

8 Compatible Sensors and Accessories

The WH31-SRS is compatible with the optional sensors:

WH31E	Thermo-Hygrometer Sensor	
WH31L	Lightning Detector	
WH31P	Probed Thermometer	
WH31-SRS-STAKEKIT	Ambient Weather Stake Kit for WH31-SRS Solar Radiation Shield	

9 Ambient Weather Network

The Ambient Weather Network is an ad-free weather platform enhanced by a powerful network of weather stations providing the most accurate hyperlocal conditions for your neighborhood, activity, or business. Check your weather forecast, view local weather cameras, set alerts for changing conditions, and more! Download the Ambient Weather App for free or visit AmbientWeather.net



10 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.

11 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.

12 California Prop 65

WARNING: Use of the Ambient Weather Products can expose you to chemicals, including lead and lead compounds, which are known to the State of California to cause cancer and bisphenol A (BPA), and phthalates DINP and/or DEHP, which are known to the State of California to cause birth defects or other reproductive harm.

Can I Trust that Ambient Weather Products are Safe Despite this Warning?

In 1986, California voters approved the Safe Drinking Water and Toxic Enforcement Act known as Proposition 65 or Prop 65. The purpose of Proposition 65 is to ensure that people are informed about exposure to chemicals known by the State of California to cause cancer, birth defects and/or other reproductive harm. A company with ten or more employees that operates within the State of California (or sells products in California) must comply with the requirements of Proposition 65. To comply, businesses are: (1) prohibited from knowingly discharging listed chemicals into sources of drinking water; and (2) required to provide a "clear and reasonable" warning before knowingly and intentionally exposing anyone to a listed chemical. Proposition 65 mandates that the Governor of California maintain and publish a list of chemicals that are known to cause cancer, birth defects and/or other reproductive harm. The [Prop 65 list](#), which must be updated annually, includes over 1,000 chemicals, including many that are commonly used in the electronics industry.

Although our manufacturing process is "lead-free" and RoHS compliant, it remains possible that trace amounts of lead could be found in components or subassemblies of Ambient Weather Products. Bisphenol A (BPSA) could conceivably be present in minute amounts in our plastic housings, lenses, labels or adhesives, and DEHP & DINP (phthalates) could possibly be found in PVC wire coatings of our cables, housings, and power cords. Unlike RoHS, Prop 65 does not establish a specific threshold for reporting on the substances of concern and instead sets forth a much less definitive standard requiring that the business demonstrate with certainty that there is "no significant risk" resulting from exposure. With respect to carcinogens, the "no significant risk" level is defined as the level which is calculated to result in not more than one excess case of cancer in 100,000 individuals exposed over a 70-year lifetime. In other words, if you are exposed to the chemical in question at this level every day for 70 years, theoretically, it will increase your chances of getting cancer by no more than 1 case in 100,000 individuals so exposed. With respect to reproductive toxicants, the "no significant risk" level is defined as the level of exposure which, even if multiplied by 1,000, will not produce birth defects or other reproductive harm. In other words, the level of exposure is below the "no observable effect level," divided by 1,000. (The "no observable effect level" is the highest dose level which has not been associated with observable reproductive harm in humans



or test animals.) Proposition 65 does not clarify whether exposure is to be measured only in normal operation, or in the event of misuse such as intentionally damaging, incinerating or consuming an Ambient Weather Product or component and Ambient Weather has not attempted to evaluate the level of exposure.

A Proposition 65 warning means one of two things: (1) the business has evaluated the exposure and has concluded that it exceeds the "no significant risk level"; or (2) the business has chosen to provide a warning simply based on its knowledge about the presence of a listed chemical without attempting to evaluate the exposure. The California government has itself clarified that "The fact that a product bears a Proposition 65 warning does not mean by itself that the product is unsafe." The government has also explained, "You could think of Proposition 65 more as a 'right to know' law than a pure product safety law."

While using Ambient Weather Products as intended, we believe any potential exposure would be negligible or well within the "no significant risk" range. However, to ensure compliance with California law and our customers' right to know, we have elected to place the Proposition 65 warning signs on Ambient Weather Products.

For further information about California's Proposition 65, please visit <https://oehha.ca.gov/prop65/background/p65plain.html>

