

ECOWITT WS68

ECOWITT WS68 Wireless Anemometer Sensor Instruction Manual

Model: WS68

1. INTRODUCTION

The ECOWITT WS68 Wireless Anemometer Sensor is a solar-powered accessory designed to measure wind direction, wind speed, wind gust, UV index, and light data. This sensor is an integral part of a complete weather monitoring system and **cannot be used as a standalone device**. It requires pairing with a compatible Wi-Fi gateway (e.g., GW1100) or a display console (e.g., HP2551, HP2561, WN1900, HP3501) to transmit and display data.

This manual provides essential information for the proper setup, operation, and maintenance of your WS68 sensor.

2. PRODUCT OVERVIEW

The WS68 sensor is engineered for outdoor use, featuring a robust design and solar power capabilities with a battery backup. It wirelessly transmits data at a frequency of 915 MHz.

**The Outdoor Sensor Can Not Be Used Alone, It Pairs A Console Or Gateway,
The Data Displayed On APP Or Website Dashboard.**



Image: The ECOWITT WS68 Wireless Anemometer Sensor, highlighting its key components: wind speed sensor, wind direction sensor, solar panel, and battery compartment door.

Key Components:

- **Wind Speed Sensor:** Measures the velocity of the wind.
- **Wind Direction Sensor:** Determines the prevailing wind direction.
- **UV & Light Sensor:** Detects ultraviolet radiation and ambient light levels.
- **Solar Panel:** Provides primary power and charges the internal capacitor.
- **Battery Compartment:** Houses the backup AA battery.
- **Mounting Arm:** For secure installation.

3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- 1x ECOWITT WS68 Wireless Anemometer Sensor with UV & Light Sensor

- 1x Mounting Hardware Pack (U-bolts, nuts, washers)
- 1x Instruction Manual (this document)

Note: A stainless steel mounting pole and 1x AA battery are **not included** and must be purchased separately.



Image: The retail box displaying the included items: the wireless anemometer sensor and mounting hardware.

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment door on the underside of the sensor unit.
2. Open the battery compartment.
3. Insert one (1) AA battery (not included) into the compartment, observing correct polarity (+/-). A lithium AA battery is recommended for extended life and performance in varying temperatures.
4. Securely close the battery compartment door.

4.2 Mounting the Sensor

For optimal accuracy, the WS68 sensor should be mounted in an open area, free from obstructions that could interfere with wind flow or sunlight. A mounting height of approximately 32 feet (10 meters) is often recommended for professional weather stations, though this may vary based on your specific environment.

1. Attach the sensor to a suitable mounting pole (not included) using the provided U-bolts, nuts, and washers. Ensure the sensor is firmly secured to prevent movement in high winds.
2. Orient the sensor so that the solar panel faces the direction that receives the most sunlight throughout the day. For users in the Northern Hemisphere, this typically means facing the 'N' arrow on the sensor towards North. In the Southern Hemisphere, the solar panel should face North for optimal charging, which may require adjusting the wind

direction offset in the app by 180 degrees to ensure accurate readings.

3. Ensure the wind cups and wind vane can rotate freely without any obstructions.

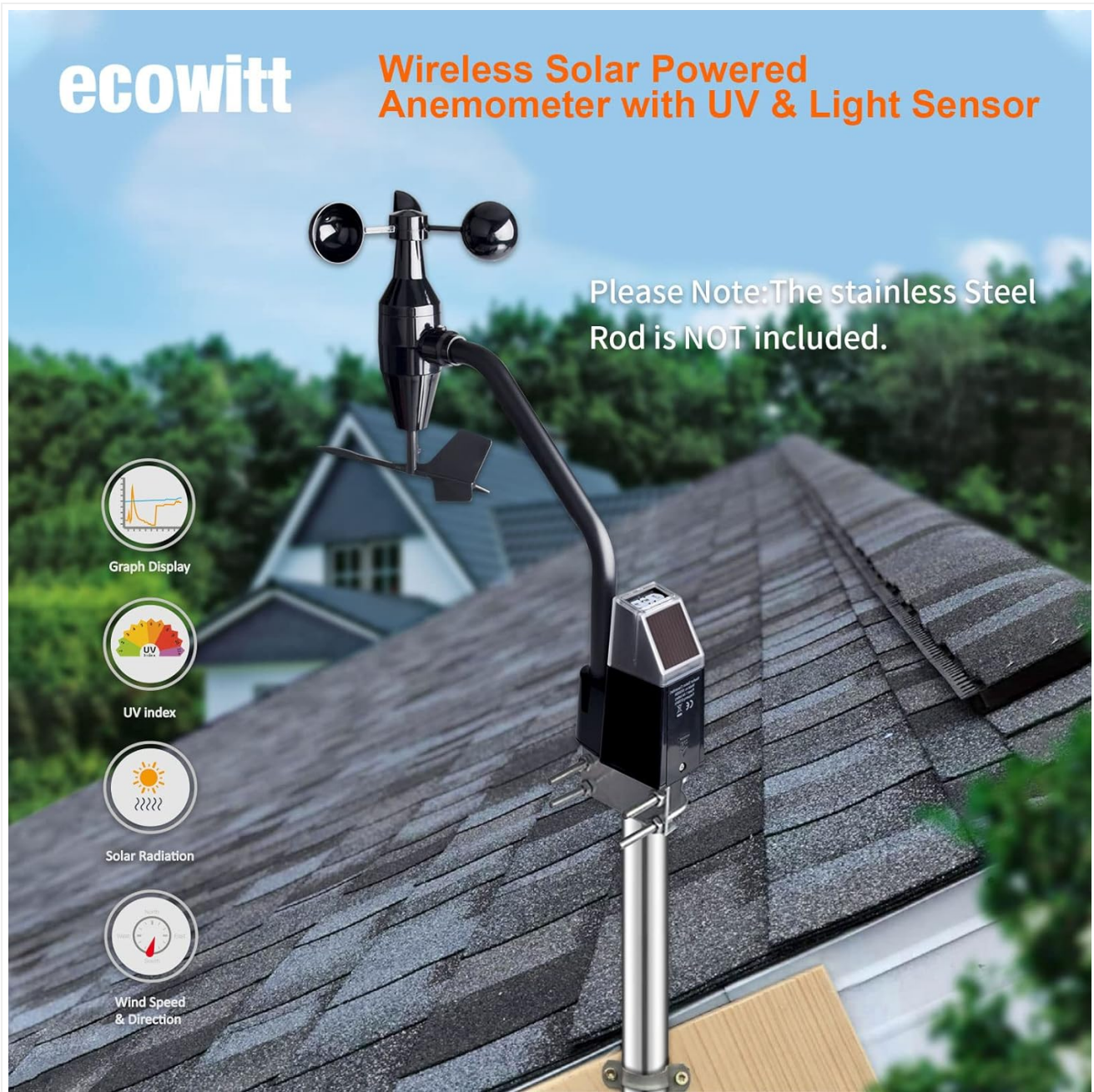


Image: The WS68 sensor mounted on a pole, illustrating a typical installation scenario on a rooftop for clear exposure to wind and sun.

4.3 Pairing with a Gateway or Console

The WS68 sensor transmits data wirelessly at 915 MHz. It must be paired with a compatible ECOWITT Wi-Fi gateway (e.g., GW1100) or a display console (e.g., HP2551, HP2561, WN1900, HP3501) that operates on the same frequency.

1. Power on your compatible ECOWITT Wi-Fi gateway or display console.
2. Refer to the instruction manual of your gateway or console for specific pairing instructions. Generally, the gateway/console will automatically detect and connect to the WS68 sensor once both are powered on and within range.
3. Ensure the gateway/console is within the wireless transmission range of 330 feet (100 meters) from the sensor. Walls and other obstructions can reduce this range.

WS68 Outdoor Sensor Can Not Be Used Alone

Need to pair with Wi-Fi gateway or the display consoles of HP2551/HP2553/HP3500/HP3501/WN1900/WN1910 weather station.



Image: Diagram showing the WS68 sensor wirelessly connecting to either an ECOWITT gateway (GW1100) or a display console (HP2551, HP2553, HP3500, HP3501, WN1900, WN1910), which then allows data viewing via the WSView Plus/Ecowitt App.

5. OPERATING INSTRUCTIONS

5.1 Data Viewing via App

Once your WS68 sensor is successfully paired with a Wi-Fi gateway and the gateway's Wi-Fi configuration is complete, you can view live data:

- Download and install the **WSView Plus App** or **Ecowitt App** on your mobile device.
- Follow the in-app instructions to add your gateway and view the live wind, UV, and light data from your WS68 sensor.
- The sensor transmits data every 16.5 seconds.

5.2 Online Weather Services

The ECOWITT system supports uploading your sensor data to various online weather platforms:

- **Ecowitt Weather Server (ecowitt.net):** Upload data to the free Ecowitt server to view data graphs and download historical records. A shortcut to the website on your phone's home screen is recommended for quick access.
- **Third-Party Services:** The system also supports uploads to Weather Underground (WU), WeatherCloud, and WOW. You can view the sensor history graph for your WU station ID directly within the WSView Plus/Ecowitt App.





	WS68 Anemometer Sensor	WN67 5-in-1 Weather Sensor	WS69 7-in-1 Weather Sensor	WS80 6-in-1 Weather Sensor
				
Wind Speed	✓	✓	✓	✓
Wind Direction	✓	✓	✓	✓
UV&Light Sensor	✓	✗	✓	✓
Solar panel	✓	✗	✓	✓
Rain Gauge Sensor	✗	✓	✓	✗
Thermo-Hygrometer Sensor	✗	✓	✓	✓
Battery Powered(Backup)	1 x AA(not included)	2x AA Batteries (not included)	2x AA Batteries (not included)	2x AA Batteries (not included)
Can Be Used Alone	✓	✗	✗	✗
Works with	Ecowitt Wi-Fi Gateway/HP2551/HP2553/HP2561/HP3500/HP3501/WN1900/WN1910	Ecowitt Wi-Fi Gateway/WS2910/WS2320/HP2551/HP2553/HP2561/HP3500/HP3501/WN1900/WN1910/WS6100	Ecowitt Wi-Fi Gateway/WS2910/WS2320/HP2551/HP2553/HP2561/HP3500/HP3501/WN1900/WN1910/WS6100/WS6100	Ecowitt Wi-Fi Gateway/HP2551/HP2553/HP2561/HP3500/HP3501/WN1900/WN1910/WS6100

Image: Visual representation of the various online weather platforms supported by Ecowitt, including ecowitt.net, Weather Underground, Met Office WOW, and Weathercloud.

5.3 Sensor Calibration

Calibration functions for wind and UV & light sensors are available within the WSView Plus or Ecowitt App to fine-tune readings if necessary.

6. MAINTENANCE

6.1 Battery Replacement

The WS68 sensor uses a solar panel for primary power, but an AA battery acts as a backup. When the battery level is low, you may receive a notification via the app or see an indicator on your display console. Replace the battery as follows:

1. Access the battery compartment as described in Section 4.1.
2. Remove the old AA battery.
3. Insert a new AA battery, ensuring correct polarity. A lithium AA battery is recommended for optimal performance and longevity, especially in cold climates.
4. Securely close the battery compartment.

6.2 Cleaning

Periodically inspect the sensor for dirt, dust, or debris that may accumulate on the solar panel, wind cups, wind vane, or UV/light sensor. Gently clean these components with a soft, damp cloth. Avoid using abrasive cleaners or solvents.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No data displayed on app/console.	Sensor not powered, not paired, or frequency mismatch.	Ensure AA battery is installed and functional. Verify sensor is paired with gateway/console. Confirm both sensor and receiver operate on 915 MHz.
Inaccurate wind readings.	Obstructions, incorrect mounting, or dirty sensors.	Relocate sensor to an open area. Ensure wind cups and vane rotate freely. Clean sensors. Use app calibration if needed.
Data transmission issues (intermittent or no signal).	Distance too great, obstructions, or interference.	Reduce distance between sensor and gateway/console. Minimize physical obstructions (walls, large metal objects). Check for other 915 MHz devices causing interference.
Solar panel not charging effectively.	Insufficient sunlight or dirty panel.	Ensure solar panel is clean and oriented towards maximum daily sunlight. Check for shading.
Sensor not working alone.	This is an accessory sensor.	The WS68 is designed to work only with a compatible ECOWITT Wi-Fi gateway or display console. It does not have a built-in display.

8. SPECIFICATIONS





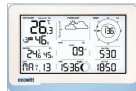

Feature	Detail
Brand	ECOWITT
Model	WS68
Specific Uses	Wind Direction, Wind Speed, UV Index, Light Data
Power Source	Solar Powered (with 1x AA battery backup, not included)
Material	Stainless Steel (components), Plastic
Connectivity Technology	Wireless (915 MHz)
Transmission Range	Up to 330 feet (100 meters) in open air
Sensor Reporting Interval	16.5 seconds
Wind Speed Accuracy	±10% (>5m/s), ±1m/s (≤5m/s)
Light Accuracy	±15%
UV-Index Range	0-15
Item Weight	500 Grams (1.1 pounds)
Display Type	No display (accessory only)

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact your retailer. ECOWITT strives to provide reliable products and customer support.

If you encounter any issues or have questions not covered in this manual, please contact ECOWITT customer service or technical support for assistance. Contact details can typically be found on the ECOWITT official website or through your purchase platform.

Related Documents - WS68

<div><div>WIRELESS SOLAR POWERED ANEMOMETER</div><div>WEATHER LIGHT SENSOR</div><div>Operation Manual</div><div>Model: WS68</div><div><p>Thank you for purchasing the Wireless Solar Powered Anemometer with UV & Light Sensor. This solar anemometer wind direction, wind speed, wind gust, UV & Light. The sensor can be mounted to the 7-in-1 universal weather station and will be used using the 7-in-1 Solar Plus II Universal Station application (after V1.0.0) and operates on the gateway (not recommended).</p><p>To ensure the best product performance, please read this manual and contact the sales office.</p></div><div></div></div>	<p>Ecowitt WS68 Wireless Solar Powered Anemometer with UV & Light Sensor - Operation Manual</p> <p>Comprehensive operation manual for the Ecowitt WS68 wireless solar-powered anemometer. Learn about setup, features, specifications, and warranty for this advanced weather sensor.</p>																																																																																																																																																																																																								
<div><div>ecowitt®</div><div></div><div>7-IN-1 WIRELESS SOLAR POWERED WEATHER SENSOR</div><div>Model: WS69</div><div></div><div>https://www.ecowitt.com/7IN1-1/</div></div>	<p>Ecowitt WS69 7-in-1 Wireless Solar Powered Weather Sensor Manual</p> <p>Comprehensive user manual for the Ecowitt WS69 7-in-1 Wireless Solar Powered Weather Sensor. This guide covers installation, setup, features, specifications, maintenance, and troubleshooting for accurate environmental monitoring.</p>																																																																																																																																																																																																								
<div><div>WiFi Weather Station</div><div>Operation Manual</div><div>Model: WN1980</div><div><table><tr><td>Table of Contents</td><td>1</td></tr><tr><td>1. Welcome</td><td>2</td></tr><tr><td>2. Specifications</td><td>3</td></tr><tr><td>3. Installation</td><td>4</td></tr><tr><td>4. Setup</td><td>5</td></tr><tr><td>5. Troubleshooting</td><td>6</td></tr><tr><td>6. Warranty</td><td>7</td></tr><tr><td>7. Contact Us</td><td>8</td></tr><tr><td>8. Appendix</td><td>9</td></tr><tr><td>9. Glossary</td><td>10</td></tr><tr><td>10. Index</td><td>11</td></tr><tr><td>11. About Us</td><td>12</td></tr><tr><td>12. Contact Us</td><td>13</td></tr><tr><td>13. Feedback</td><td>14</td></tr><tr><td>14. Privacy Policy</td><td>15</td></tr><tr><td>15. Terms of Service</td><td>16</td></tr><tr><td>16. Disclaimer</td><td>17</td></tr><tr><td>17. Copyright</td><td>18</td></tr><tr><td>18. Trademark</td><td>19</td></tr><tr><td>19. Patent</td><td>20</td></tr><tr><td>20. License</td><td>21</td></tr><tr><td>21. Sitemap</td><td>22</td></tr><tr><td>22. About Us</td><td>23</td></tr><tr><td>23. Contact Us</td><td>24</td></tr><tr><td>24. Feedback</td><td>25</td></tr><tr><td>25. Privacy Policy</td><td>26</td></tr><tr><td>26. Terms of Service</td><td>27</td></tr><tr><td>27. Disclaimer</td><td>28</td></tr><tr><td>28. Copyright</td><td>29</td></tr><tr><td>29. Trademark</td><td>30</td></tr><tr><td>30. Patent</td><td>31</td></tr><tr><td>31. License</td><td>32</td></tr><tr><td>32. Sitemap</td><td>33</td></tr><tr><td>33. About Us</td><td>34</td></tr><tr><td>34. Contact Us</td><td>35</td></tr><tr><td>35. Feedback</td><td>36</td></tr><tr><td>36. Privacy Policy</td><td>37</td></tr><tr><td>37. Terms of Service</td><td>38</td></tr><tr><td>38. Disclaimer</td><td>39</td></tr><tr><td>39. Copyright</td><td>40</td></tr><tr><td>40. Trademark</td><td>41</td></tr><tr><td>41. Patent</td><td>42</td></tr><tr><td>42. License</td><td>43</td></tr><tr><td>43. Sitemap</td><td>44</td></tr><tr><td>44. About Us</td><td>45</td></tr><tr><td>45. Contact Us</td><td>46</td></tr><tr><td>46. Feedback</td><td>47</td></tr><tr><td>47. Privacy Policy</td><td>48</td></tr><tr><td>48. Terms of Service</td><td>49</td></tr><tr><td>49. Disclaimer</td><td>50</td></tr><tr><td>50. Copyright</td><td>51</td></tr><tr><td>51. Trademark</td><td>52</td></tr><tr><td>52. Patent</td><td>53</td></tr><tr><td>53. License</td><td>54</td></tr><tr><td>54. Sitemap</td><td>55</td></tr><tr><td>55. About Us</td><td>56</td></tr><tr><td>56. Contact Us</td><td>57</td></tr><tr><td>57. Feedback</td><td>58</td></tr><tr><td>58. Privacy Policy</td><td>59</td></tr><tr><td>59. Terms of Service</td><td>60</td></tr><tr><td>60. Disclaimer</td><td>61</td></tr><tr><td>61. Copyright</td><td>62</td></tr><tr><td>62. Trademark</td><td>63</td></tr><tr><td>63. Patent</td><td>64</td></tr><tr><td>64. License</td><td>65</td></tr><tr><td>65. Sitemap</td><td>66</td></tr><tr><td>66. About Us</td><td>67</td></tr><tr><td>67. Contact Us</td><td>68</td></tr><tr><td>68. Feedback</td><td>69</td></tr><tr><td>69. Privacy Policy</td><td>70</td></tr><tr><td>70. Terms of Service</td><td>71</td></tr><tr><td>71. Disclaimer</td><td>72</td></tr><tr><td>72. Copyright</td><td>73</td></tr><tr><td>73. Trademark</td><td>74</td></tr><tr><td>74. Patent</td><td>75</td></tr><tr><td>75. License</td><td>76</td></tr><tr><td>76. Sitemap</td><td>77</td></tr><tr><td>77. About Us</td><td>78</td></tr><tr><td>78. Contact Us</td><td>79</td></tr><tr><td>79. Feedback</td><td>80</td></tr><tr><td>80. Privacy Policy</td><td>81</td></tr><tr><td>81. Terms of Service</td><td>82</td></tr><tr><td>82. Disclaimer</td><td>83</td></tr><tr><td>83. Copyright</td><td>84</td></tr><tr><td>84. Trademark</td><td>85</td></tr><tr><td>85. Patent</td><td>86</td></tr><tr><td>86. License</td><td>87</td></tr><tr><td>87. Sitemap</td><td>88</td></tr><tr><td>88. About Us</td><td>89</td></tr><tr><td>89. Contact Us</td><td>90</td></tr><tr><td>90. Feedback</td><td>91</td></tr><tr><td>91. Privacy Policy</td><td>92</td></tr><tr><td>92. Terms of Service</td><td>93</td></tr><tr><td>93. Disclaimer</td><td>94</td></tr><tr><td>94. Copyright</td><td>95</td></tr><tr><td>95. Trademark</td><td>96</td></tr><tr><td>96. Patent</td><td>97</td></tr><tr><td>97. License</td><td>98</td></tr><tr><td>98. Sitemap</td><td>99</td></tr><tr><td>99. About Us</td><td>100</td></tr></table></div></div>	Table of Contents	1	1. Welcome	2	2. Specifications	3	3. Installation	4	4. Setup	5	5. Troubleshooting	6	6. Warranty	7	7. Contact Us	8	8. Appendix	9	9. Glossary	10	10. Index	11	11. About Us	12	12. Contact Us	13	13. Feedback	14	14. Privacy Policy	15	15. Terms of Service	16	16. Disclaimer	17	17. Copyright	18	18. Trademark	19	19. Patent	20	20. License	21	21. Sitemap	22	22. About Us	23	23. Contact Us	24	24. Feedback	25	25. Privacy Policy	26	26. Terms of Service	27	27. Disclaimer	28	28. Copyright	29	29. Trademark	30	30. Patent	31	31. License	32	32. Sitemap	33	33. About Us	34	34. Contact Us	35	35. Feedback	36	36. Privacy Policy	37	37. Terms of Service	38	38. Disclaimer	39	39. Copyright	40	40. Trademark	41	41. Patent	42	42. License	43	43. Sitemap	44	44. About Us	45	45. Contact Us	46	46. Feedback	47	47. Privacy Policy	48	48. Terms of Service	49	49. Disclaimer	50	50. Copyright	51	51. Trademark	52	52. Patent	53	53. License	54	54. Sitemap	55	55. About Us	56	56. Contact Us	57	57. Feedback	58	58. Privacy Policy	59	59. Terms of Service	60	60. Disclaimer	61	61. Copyright	62	62. Trademark	63	63. Patent	64	64. License	65	65. Sitemap	66	66. About Us	67	67. Contact Us	68	68. Feedback	69	69. Privacy Policy	70	70. Terms of Service	71	71. Disclaimer	72	72. Copyright	73	73. Trademark	74	74. Patent	75	75. License	76	76. Sitemap	77	77. About Us	78	78. Contact Us	79	79. Feedback	80	80. Privacy Policy	81	81. Terms of Service	82	82. Disclaimer	83	83. Copyright	84	84. Trademark	85	85. Patent	86	86. License	87	87. Sitemap	88	88. About Us	89	89. Contact Us	90	90. Feedback	91	91. Privacy Policy	92	92. Terms of Service	93	93. Disclaimer	94	94. Copyright	95	95. Trademark	96	96. Patent	97	97. License	98	98. Sitemap	99	99. About Us	100	<p>Ecowitt WN1980 WiFi Weather Station Operation Manual</p> <p>Comprehensive operation manual for the Ecowitt WN1980 WiFi Weather Station, detailing features, specifications, setup, operation modes, alarm settings, troubleshooting, and warranty information.</p>
Table of Contents	1																																																																																																																																																																																																								
1. Welcome	2																																																																																																																																																																																																								
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64. License	65																																																																																																																																																																																																								
65. Sitemap	66																																																																																																																																																																																																								
66. About Us	67																																																																																																																																																																																																								
67. Contact Us	68																																																																																																																																																																																																								
68. Feedback	69																																																																																																																																																																																																								
69. Privacy Policy	70																																																																																																																																																																																																								
70. Terms of Service	71																																																																																																																																																																																																								
71. Disclaimer	72																																																																																																																																																																																																								
72. Copyright	73																																																																																																																																																																																																								
73. Trademark	74																																																																																																																																																																																																								
74. Patent	75																																																																																																																																																																																																								
75. License	76																																																																																																																																																																																																								
76. Sitemap	77																																																																																																																																																																																																								
77. About Us	78																																																																																																																																																																																																								
78. Contact Us	79																																																																																																																																																																																																								
79. Feedback	80																																																																																																																																																																																																								
80. Privacy Policy	81																																																																																																																																																																																																								
81. Terms of Service	82																																																																																																																																																																																																								
82. Disclaimer	83																																																																																																																																																																																																								
83. Copyright	84																																																																																																																																																																																																								
84. Trademark	85																																																																																																																																																																																																								
85. Patent	86																																																																																																																																																																																																								
86. License	87																																																																																																																																																																																																								
87. Sitemap	88																																																																																																																																																																																																								
88. About Us	89																																																																																																																																																																																																								
89. Contact Us	90																																																																																																																																																																																																								
90. Feedback	91																																																																																																																																																																																																								
91. Privacy Policy	92																																																																																																																																																																																																								
92. Terms of Service	93																																																																																																																																																																																																								
93. Disclaimer	94																																																																																																																																																																																																								
94. Copyright	95																																																																																																																																																																																																								
95. Trademark	96																																																																																																																																																																																																								
96. Patent	97																																																																																																																																																																																																								
97. License	98																																																																																																																																																																																																								
98. Sitemap	99																																																																																																																																																																																																								
99. About Us	100																																																																																																																																																																																																								
<div><div>WIRELESS SOLAR POWERED ANEMOMETER</div><div>WEATHER LIGHT SENSOR</div><div>Operation Manual</div><div>Model: WS68</div><div><p>Thank you for purchasing the Wireless Solar Powered Anemometer with UV & Light Sensor. This solar anemometer wind direction, wind speed, wind gust, UV & Light. The sensor can be mounted to the 7-in-1 universal weather station and will be used using the 7-in-1 Solar Plus II Universal Station application (after V1.0.0) and operates on the gateway (not recommended).</p><p>To ensure the best product performance, please read this manual and contact the sales office.</p></div><div></div></div>	<p>Ecowitt WS68 Wireless Solar Powered Anemometer with UV & Light Sensor Operation Manual</p> <p>Operation manual for the Ecowitt WS68 Wireless Solar Powered Anemometer with UV & Light Sensor. This document provides detailed instructions on setup, features, specifications, and warranty information for the device.</p>																																																																																																																																																																																																								
<div><div>ecowitt®</div><div></div><div>Weather Station Receiver Manual</div><div>Model: WS3800</div><div></div><div>https://www.ecowitt.com/WS3800/</div></div>	<p>Ecowitt WS3800 Wi-Fi Weather Station Receiver User Manual</p> <p>Comprehensive user guide for the Ecowitt WS3800 Wi-Fi LCD weather station receiver, detailing installation, Wi-Fi configuration via app or web, sensor pairing, data uploading, features, and operation.</p>																																																																																																																																																																																																								

WiFi Weather Station	
Operation Manual	
Model: WN1980	
Table of Contents	
1. Welcome	2
2. Quick Start	3
3. Safety and Precautions	4
4. Package Contents	5
5. Basic Setup	6
6. Advanced Setup	7
7. Troubleshooting	8
8. Maintenance	9
9. Appendix	10
10. Glossary	11
11. Index	12
12. About This Manual	13
13. Contact Us	14
14. Copyright	15
15. Trademark	16
16. Patent	17
17. Disclaimer	18
18. Liability	19
19. Warranty	20
20. Return Policy	21
21. Shipping	22
22. Packaging	23
23. Storage	24
24. Transportation	25
25. Installation	26
26. Operation	27
27. Maintenance	28
28. Troubleshooting	29
29. Appendix	30
30. Glossary	31
31. Index	32
32. About This Manual	33
33. Contact Us	34
34. Copyright	35
35. Trademark	36
36. Patent	37
37. Disclaimer	38
38. Liability	39
39. Warranty	40
40. Return Policy	41
41. Shipping	42
42. Packaging	43
43. Storage	44
44. Transportation	45
45. Installation	46
46. Operation	47
47. Maintenance	48
48. Troubleshooting	49
49. Appendix	50
50. Glossary	51
51. Index	52
52. About This Manual	53
53. Contact Us	54
54. Copyright	55
55. Trademark	56
56. Patent	57
57. Disclaimer	58
58. Liability	59
59. Warranty	60
60. Return Policy	61
61. Shipping	62
62. Packaging	63
63. Storage	64
64. Transportation	65
65. Installation	66
66. Operation	67
67. Maintenance	68
68. Troubleshooting	69
69. Appendix	70
70. Glossary	71
71. Index	72
72. About This Manual	73
73. Contact Us	74
74. Copyright	75
75. Trademark	76
76. Patent	77
77. Disclaimer	78
78. Liability	79
79. Warranty	80
80. Return Policy	81
81. Shipping	82
82. Packaging	83
83. Storage	84
84. Transportation	85
85. Installation	86
86. Operation	87
87. Maintenance	88
88. Troubleshooting	89
89. Appendix	90
90. Glossary	91
91. Index	92
92. About This Manual	93
93. Contact Us	94
94. Copyright	95
95. Trademark	96
96. Patent	97
97. Disclaimer	98
98. Liability	99
99. Warranty	100
100. Return Policy	101
101. Shipping	102
102. Packaging	103
103. Storage	104
104. Transportation	105
105. Installation	106
106. Operation	107
107. Maintenance	108
108. Troubleshooting	109
109. Appendix	110
110. Glossary	111
111. Index	112
112. About This Manual	113
113. Contact Us	114
114. Copyright	115
115. Trademark	116
116. Patent	117
117. Disclaimer	118
118. Liability	119
119. Warranty	120
120. Return Policy	121
121. Shipping	122
122. Packaging	123
123. Storage	124
124. Transportation	125
125. Installation	126
126. Operation	127
127. Maintenance	128
128. Troubleshooting	129
129. Appendix	130
130. Glossary	131
131. Index	132
132. About This Manual	133
133. Contact Us	134
134. Copyright	135
135. Trademark	136
136. Patent	137
137. Disclaimer	138
138. Liability	139
139. Warranty	140
140. Return Policy	141
141. Shipping	142
142. Packaging	143
143. Storage	144
144. Transportation	145
145. Installation	146
146. Operation	147
147. Maintenance	148
148. Troubleshooting	149
149. Appendix	150
150. Glossary	151
151. Index	152
152. About This Manual	153
153. Contact Us	154
154. Copyright	155
155. Trademark	156
156. Patent	157
157. Disclaimer	158
158. Liability	159
159. Warranty	160
160. Return Policy	161
161. Shipping	162
162. Packaging	163
163. Storage	164
164. Transportation	165
165. Installation	166
166. Operation	167
167. Maintenance	168
168. Troubleshooting	169
169. Appendix	170
170. Glossary	171
171. Index	172
172. About This Manual	173
173. Contact Us	174
174. Copyright	175
175. Trademark	176
176. Patent	177
177. Disclaimer	178
178. Liability	179
179. Warranty	180
180. Return Policy	181
181. Shipping	182
182. Packaging	183
183. Storage	184
184. Transportation	185
185. Installation	186
186. Operation	187
187. Maintenance	188
188. Troubleshooting	189
189. Appendix	190
190. Glossary	191
191. Index	192
192. About This Manual	193
193. Contact Us	194
194. Copyright	195
195. Trademark	196
196. Patent	197
197. Disclaimer	198
198. Liability	199
199. Warranty	200
200. Return Policy	201
201. Shipping	202
202. Packaging	203
203. Storage	204
204. Transportation	205
205. Installation	206
206. Operation	207
207. Maintenance	208
208. Troubleshooting	209
209. Appendix	210
210. Glossary	211
211. Index	212
212. About This Manual	213
213. Contact Us	214
214. Copyright	215
215. Trademark	216
216. Patent	217
217. Disclaimer	218
218. Liability	219
219. Warranty	220
220. Return Policy	221
221. Shipping	222
222. Packaging	223
223. Storage	224
224. Transportation	225
225. Installation	226
226. Operation	227
227. Maintenance	228
228. Troubleshooting	229
229. Appendix	230
230. Glossary	231
231. Index	232
232. About This Manual	233
233. Contact Us	234
234. Copyright	235
235. Trademark	236
236. Patent	237
237. Disclaimer	238
238. Liability	239
239. Warranty	240
240. Return Policy	241
241. Shipping	242
242. Packaging	243
243. Storage	244
244. Transportation	245
245. Installation	246
246. Operation	247
247. Maintenance	248
248. Troubleshooting	249
249. Appendix	250
250. Glossary	251
251. Index	252
252. About This Manual	253
253. Contact Us	254
254. Copyright	255
255. Trademark	256
256. Patent	257
257. Disclaimer	258
258. Liability	259
259. Warranty	260
260. Return Policy	261
261. Shipping	262
262. Packaging	263
263. Storage	264
264. Transportation	265
265. Installation	266
266. Operation	267
267. Maintenance	268
268. Troubleshooting	269
269. Appendix	270
270. Glossary	271
271. Index	272
272. About This Manual	273
273. Contact Us	274
274. Copyright	275
275. Trademark	276
276. Patent	277
277. Disclaimer	278
278. Liability	279
279. Warranty	280
280. Return Policy	281
281. Shipping	282
282. Packaging	283
283. Storage	284
284. Transportation	285
285. Installation	286
286. Operation	287
287. Maintenance	288
288. Troubleshooting	289
289. Appendix	290
290. Glossary	291
291. Index	292
292. About This Manual	293
293. Contact Us	294
294. Copyright	295
295. Trademark	296
296. Patent	297
297. Disclaimer	298
298. Liability	299
299. Warranty	300
300. Return Policy	301
301. Shipping	302
302. Packaging	303
303. Storage	304
304. Transportation	305
305. Installation	306
306. Operation	307
307. Maintenance	308
308. Troubleshooting	309
309. Appendix	310
310. Glossary	311
311. Index	312
312. About This Manual	313
313. Contact Us	314
314. Copyright	315
315. Trademark	316
316. Patent	317
317. Disclaimer	318
318. Liability	319
319. Warranty	320
320. Return Policy	321
321. Shipping	322
322. Packaging	323
323. Storage	324
324. Transportation	325
325. Installation	326
326. Operation	327
327. Maintenance	328
328. Troubleshooting	329
329. Appendix	330
330. Glossary	331
331. Index	332
332. About This Manual	333
333. Contact Us	334
334. Copyright	335
335. Trademark	336
336. Patent	337
337. Disclaimer	338
338. Liability	339
339. Warranty	340
340. Return Policy	341
341. Shipping	342
342. Packaging	343
343. Storage	344
344. Transportation	345
345. Installation	346
346. Operation	347
347. Maintenance	348
348. Troubleshooting	349
349. Appendix	350
350. Glossary	351
351. Index	352
352. About This Manual	353
353. Contact Us	354
354. Copyright	355
355. Trademark	356
356. Patent	357
357. Disclaimer	358
358. Liability	359
359. Warranty	360
360. Return Policy	361
361. Shipping	362
362. Packaging	363
363. Storage	364
364. Transportation	365
365. Installation	366
366. Operation	367
367. Maintenance	368
368. Troubleshooting	369
369. Appendix	370
370. Glossary	371
371. Index	372
372. About This Manual	373
373. Contact Us	374
374. Copyright	375
375. Trademark	376
376. Patent	377
377. Disclaimer	378
378. Liability	379
379. Warranty	380
380. Return Policy	381
381. Shipping	382
382. Packaging	383
383. Storage	384
384. Transportation	385
385. Installation	386
386. Operation	387
387. Maintenance	388
388. Troubleshooting	389
389. Appendix	390
390. Glossary	391
391. Index	392
392. About This Manual	393
393. Contact Us	394
394. Copyright	395
395. Trademark	396
396. Patent	397
397. Disclaimer	398
398. Liability	399
399. Warranty	400
400. Return Policy	401
401. Shipping	402
402. Packaging	403
403. Storage	404
404. Transportation	405
405. Installation	406
406. Operation	407
407. Maintenance	408
408. Troubleshooting	409
409. Appendix	410
410. Glossary	411
411. Index	412
412. About This Manual	413
413. Contact Us	414
414. Copyright	415
415. Trademark	416
416. Patent	417
417. Disclaimer	418
418. Liability	419
419. Warranty	420
420. Return Policy	421
421. Shipping	422
422. Packaging	423
423. Storage	424
424. Transportation	425
425. Installation	426
426. Operation	427
427. Maintenance	428
428. Troubleshooting	429
429. Appendix	430
430. Glossary	431
431. Index	432
432. About This Manual	433
433. Contact Us	434
434. Copyright	435
435. Trademark	436
436. Patent	437
437. Disclaimer	438
438. Liability	439
439. Warranty	440
440. Return Policy	441
441. Shipping	442
442. Packaging	443
443. Storage	444
444. Transportation	445
445. Installation	446
446. Operation	447
447. Maintenance	448
448. Troubleshooting	449
449. Appendix	450
450. Glossary	451
451. Index	452
452. About This Manual	453
453. Contact Us	454
454. Copyright	455
455. Trademark	456
456. Patent	457
457. Disclaimer	458
458. Liability	459
459. Warranty	460
460. Return Policy	461
461. Shipping	462
462. Packaging	463
463. Storage	464
464. Transportation	465
465. Installation	466
466. Operation	467
467. Maintenance	468
468. Troubleshooting	469
469. Appendix	470
470. Glossary	471
471. Index	472
472. About This Manual	473
473. Contact Us	474
474. Copyright	475
475. Trademark	476
476. Patent	477
477. Disclaimer	478
478. Liability	479
479. Warranty	480
480. Return Policy	481
481. Shipping	482
482. Packaging	483
483. Storage	484
484. Transportation	485
485. Installation	486
486. Operation	487
487. Maintenance	488
488. Troubleshooting	489
489. Appendix	490
490. Glossary	491
491. Index	492
492. About This Manual	493
493. Contact Us	494
494. Copyright	495
495. Trademark	496
496. Patent	497
497. Disclaimer	498
498. Liability	499
499. Warranty	500
500. Return Policy	501
501. Shipping	502
502. Packaging	503
503. Storage	504
504. Transportation	505
505. Installation	506
506. Operation	507
507. Maintenance	508
508. Troubleshooting	509
509. Appendix	510
510. Glossary	511
511. Index	512
512. About This Manual	513
513. Contact Us	514
514. Copyright	515
515. Trademark	516
516. Patent	517
517. Disclaimer	518
518. Liability	519
519. Warranty	520
520. Return Policy	521
521. Shipping	522
522. Packaging	523
523. Storage	524
524. Transportation	525
525. Installation	526
526. Operation	527
527. Maintenance	528
528. Troubleshooting	529
529. Appendix	530
530. Glossary	531
531. Index	532
532. About This Manual	533
533. Contact Us	534
534. Copyright	535
535. Trademark	536
536. Patent	537
537. Disclaimer	538
538. Liability	539
539. Warranty	540
540. Return Policy	541
541. Shipping	542
542. Packaging	543
543. Storage	544
544. Transportation	545
545. Installation	546
546. Operation	547
547. Maintenance	548
548. Troubleshooting	549
549. Appendix	550
550. Glossary	551
551. Index	552
552. About This Manual	553
553. Contact Us	554
554. Copyright	555
555. Trademark	556
556. Patent	557
557. Disclaimer	558
558. Liability	559