

# EARTH NETWORKS-WEATHERBUG WEATHER STATION PARAMETERS

## WeatherBug Weather Stations Measure 27 Weather Parameters



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| <ol style="list-style-type: none"> <li>1. Outdoor temperature</li> <li>2. Indoor temperature</li> <li>3. Auxiliary temperature</li> <li>4. High for the day</li> <li>5. Low for the day</li> <li>6. Outdoor temperature rate change</li> <li>7. Wind chill/Heat index</li> <li>8. Dew point</li> <li>9. Wet bulb</li> <li>10. Relative humidity</li> <li>11. Humidity change rate</li> <li>12. Min/Max humidity</li> <li>13. Barometric pressure</li> <li>14. Barometric pressure rate</li> </ol> | <ol style="list-style-type: none"> <li>15. Min/Max barometric pressure</li> <li>16. Wind speed</li> <li>17. Wind direction</li> <li>18. Average wind speed</li> <li>19. Highest gust for the day</li> <li>20. Daily rain</li> <li>21. Monthly rain</li> <li>22. Yearly rain</li> <li>23. Hourly rain rate</li> <li>24. Max hourly rain rate</li> <li>25. Light intensity</li> <li>26. Max light</li> <li>27. Last light</li> </ol> |
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### Within this Range and Accuracy

Sensor	Range (English)	Accuracy (English)	Range (Metric)	Accuracy (Metric)
<b>Temperature</b>	-40F - 150F	+/- 1F	-40C - 60C	+/- 0.5C
<b>Relative Humidity</b>	0 - 100%	+/- 3.5%	0 - 100%	+/- 2%
<b>Wind Speed</b>	0 - 200mph	+/- 2 mph	0 - 200 kph	+/- 4 kph
<b>Wind Direction</b>	0 - 360 deg.	+/- 3 deg.	0 - 360 deg.	+/- 3 deg.
<b>Barometric Pressure</b>	28.00 - 32.00" Hg	+/- 0.05" Hg	950 - 1100 mbar	+/- 5 mbar
<b>Rainfall</b>	Unlimited	+/- 2%	Unlimited	+/- 2%
<b>Light Intensity</b>	0 - 100%	+/- n/a	0 - 100%	+/- n/a
<b>Aux Temperature</b>	-40 - 150F	+/- 2F	-40C - 65C	+/- 1C

### Optional Lightning Detection

The Earth Networks-WeatherBug Weather Station may be enhanced to include lightning tracking and monitoring with the addition of an optional lightning sensor. The lightning sensor will connect the weather station to the Earth Networks-WeatherBug Total Lightning Network, the first integrated in-cloud (IC) and cloud-to-ground (CG) lightning detection network providing critical 5- to 30-minute lead times for predicting dangerous CG lightning, tornadoes and downburst winds.