

## WEATHERBUG WEATHER STATION PARAMETERS

### WeatherBug Weather Stations Measure 27 Weather Parameters



1. Outdoor temperature
2. Indoor temperature
3. Auxiliary temperature
4. High for the day
5. Low for the day
6. Outdoor temperature rate change
7. Wind chill/Heat index
8. Dew point
9. Wet bulb
10. Relative humidity
11. Humidity change rate
12. Min/Max humidity
13. Barometric pressure
14. Barometric pressure rate
15. Min/Max/ barometric pressure
16. Wind speed
17. Wind direction
18. Average wind speed
19. Highest gust for the day
20. Daily rain
21. Monthly rain
22. Yearly rain
23. Rain/hour rate
24. Max rain rate/hour
25. Light intensity
26. Max light
27. Last light

### Within this Range and Accuracy

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

### Optional Lightning Detection

The 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 WeatherBug Total Lightning Network (WTLN). WTLN is the first integrated intracloud (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.