# WIRELESS AMBIENT MONITOR


The Wireless Ambient Monitor (WAM-400) measures ambient temperature which is useful in detecting faulty air conditioning or improper ventilation.

Additionally Ambient monitors can be used in conjunction with our CellSPY battery monitors to detect a thermal runaway in its early stages.

Our web-based application will compare the ambient monitor's measurements with the battery temperatures collected by CellSPY monitors. If the "delta" between those two measurements exceeds a preset threshold, the user will be alerted immediately with an email or SMS.

Wireless Ambient Monitor is powered directly from the batteries with voltage range from 10 to 16V.

They are not limited to temperature measurement, they also measure ambient humidity and there is an option to measure pressure as well.

## OPERATING SPECIFICATIONS

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| Ambient Temperature Measurement: | Range: 0 - 60 °C (32 - 140 °F)<br>Resolution: 0.01 °C<br>Accuracy: +/- 1°C |
| Ambient Humidity Measurement: | Range: 5 - 85 %<br>Resolution: 1 %<br>Accuracy: +/- 5 % |
| Ambient Presure Measurement: | Range: 300 - 1200 hPa<br>Resolution: 0.5 hPa<br>Accuracy: +/- 0.5 hPa |
| Power Supply: | WAM-400: 10 - 16 VDC<br>Power Disipation < 200 mW<br>WAM-400-B-x: Powered from the internal battery |
| Wireless Communication: | Frequency ISM Band - 2.4 GHz DSSS<br>Range indoor > 50 m (expandable with repeaters) |
| Approvals: | CE FC RoHS |

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| Operating Temp.: | 0 °C to 60 °C (32 °F to 140 °F) |
| Storage Temp.: | 0 °C to 60 °C (32 °F to 140 °F) |
| Humidity: | 5 - 85 %, non-condensing |
| Dimensions & Weight: | 3.4" x 1" x 0.4" (86 mm x 26 mm x 11 mm)<br>1.6 oz (45 g) |
| Enclosure: | Material: PC<br>Degree of protection: IP40<br>IK code: IK08 |

### KEY ATTRIBUTE

The difference between ambient and cell temperature, as recorded by Wireless Ambient Monitors and CellSPYs, respectively, is an excellent parameter for an early thermal runaway detection.