

How to Use BEACON V2s

What are BEACON V2s?

BEACON V2s are an optional component to the V2 system that adds real-time environmental sensing (temperature, relative humidity, heat index, humidex, estimated WBGT ([//support.slatesafety.com/article/34-what-is-ewbgt](https://support.slatesafety.com/article/34-what-is-ewbgt))), and relative/coarse indoor location tracking.



How can I place a BEACON V2?

The BEACON V2 has adhesive or screws on the back to allow it to be placed in any location.

Are BEACON V2s safe to place outside?

Yes. The BEACON V2 has an IP67 rating.

Do BEACON V2s have to be turned on?

No. They are turned on prior to shipping.



What is the battery life of a BEACON V2?

12-16 months, depending on environmental conditions.

How does the BEACON V2 transmit data?

The BEACON V2 will transmit data through the SlateSafety V2 ecosystem currently consisting of the GATEWAY V2 or BAND V2. Therefore, one of these products must be near the BEACON V2 in order for live data to transmit to the SlateSafety Web Application.

Data for the BEACON V2 will be displayed for 5 minutes following the last transmission time to the GATEWAY V2 or BAND V2.

How do I set up and name BEACON V2s?

BEACON V2s can be set up and named on the Organization Page of the SlateSafety Web Application.

How do I view BEACON V2s?

BEACON V2 data can be viewed on the Live Page of the SlateSafety Web Application. You must click on the "Grid" tab and then "Show: Locations".

The screenshot shows the SlateSafety Web Application interface. At the top, there's a navigation bar with 'SLATE SAFETY' logo and tabs for 'Live', 'History', 'Organization', and 'Exports'. A notification bell icon with '8' and a 'More' dropdown are on the right. Below the navigation bar, there's a filter section with 'Show:' (Users, Groups, Locations), 'Sort by:' (Exertion, Core Temp, Heart Rate, HRLV), and a search bar for 'Search active locations/groups/users:'. The main content area displays a list of locations and their associated beacon data. The locations are grouped by site and floor. For each location, there's a summary row with temperature, humidity, and heat index. Below this, individual beacon data is shown for each location.

Location	Status	Temp (°F)	Humidity (%)	Heat Index (°F)
Site A - 1st Floor	-	88.3	49%	92.0
Site A - 2nd Floor	2 online	85.2	62%	90.1
Site B - 1st Floor	-	73.4	47%	73.4
Site B - 2nd Floor	-	73.4	51%	73.4
Site B - 3rd Floor	1 online	73.4	50%	73.4

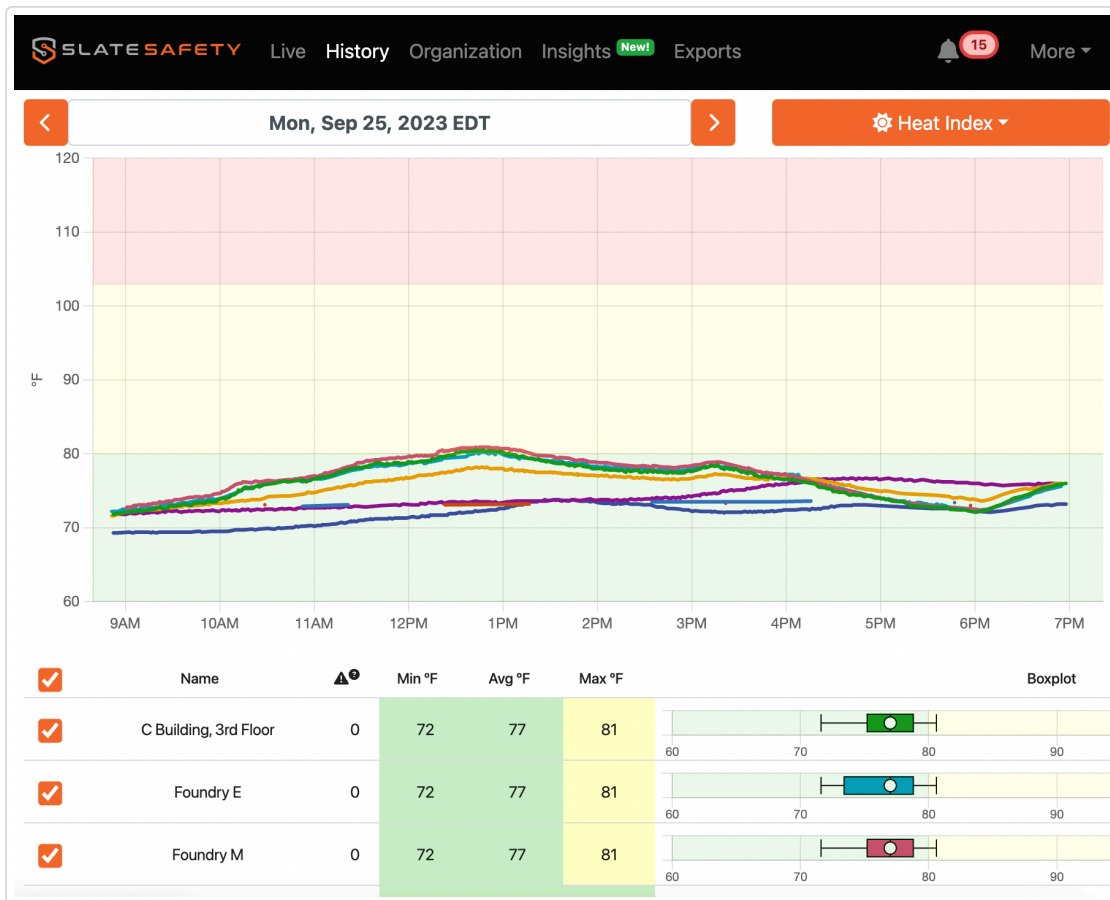
Individual beacon data for Site A - 2nd Floor:

Beacon Name	Exertion (%)	Temp (°F)	BPM	hriv (%)
Joel Boshier	62%	101.2	145	110%
Francisco Williams	0%	98.6	71	48%

Individual beacon data for Site B - 3rd Floor:

Beacon Name	Exertion (%)	Temp (°F)	BPM	hriv (%)
Aaron Gaines	0%	98.6	69	44%

Joel Boshier and Francisco Williams are located near the Beacon named "Site A - 2nd Floor"



View trends in Heat Index over time

What is the temperature range and accuracy?

The BEACON V2 measures temperatures from -40°C to 65°C with an accuracy of $\pm 0.3^{\circ}\text{C}$ (0-65°C) and $\pm 1^{\circ}\text{C}$ (-40-0°C).

What is the relative humidity range and accuracy of the BEACON V2?

The relative humidity measurement is from 0 - 100% with an accuracy of $\pm 3\%$ (20-80%) and $\pm 5\%$ (0-20% and 80-100%).

What is heat index?

Heat index is what the temperature feels like to the human body when relative humidity is combined with the air temperature. Heat index of 80°F or higher is the threshold for outdoor and indoor heat hazards according to the OSHA NEP (<https://www.osha.gov/sites/default/files/heat-nep-factsheet-en.pdf>). For more, visit the heat index page on weather.gov (<https://www.weather.gov/ama/heatindex>).




What is humidex?

Humidex is the Canadian variant of heat index. Humidex is very similar to heat index -- it also quantifies what the temperature feels like to the human body when relative humidity is combined with air temperature. While both the humidex and the heat index are calculated using dew point, the humidex uses a dew point of 7 °C (45 °F) as a base, whereas the heat index uses a dew point base of 14 °C (57 °F). For more, visit the humidex page on the Canadian Centre for Occupational Health and Safety (https://www.ccohs.ca/oshanswers/phys_agents/humidex.html).

What is eWBGT?

Please see this article (<https://support.slatesafety.com/article/34-what-is-ewbgt>).

What are the Green-Yellow-Red ranges?

	Green 	Yellow 	Red 
Air Temperature	under 80 °F	80 °F to 98 °F	98 °F and over
	under 26.67 °C	26.67 °C to 36.67 °C	36.67 °C and over
Humidity	under 60%	60% to 90%	90% and over
Heat Index	under 80 °F	80 °F to 103 °F	103 °F and over
	under 26.67 °C	26.67 °C to 39.44 °C	39.44 °C and over
Humidex	under 86 °F	86 °F to 104 °F	104 °F and over
	under 30 °C	30 °C to 40 °C	40 °C and over

Can I set alert thresholds for BEACON V2s?

Yes. You can set alert thresholds for BEACON V2s in a similar manner as you set alert thresholds for BAND V2s. Read more here. (<https://support.slatesafety.com/article/38-beacon-v2-everything-you-need-to-know-about-alert-and-return-to-work-notifications>)

✉ *Still need help? Contact Us (#)*

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