
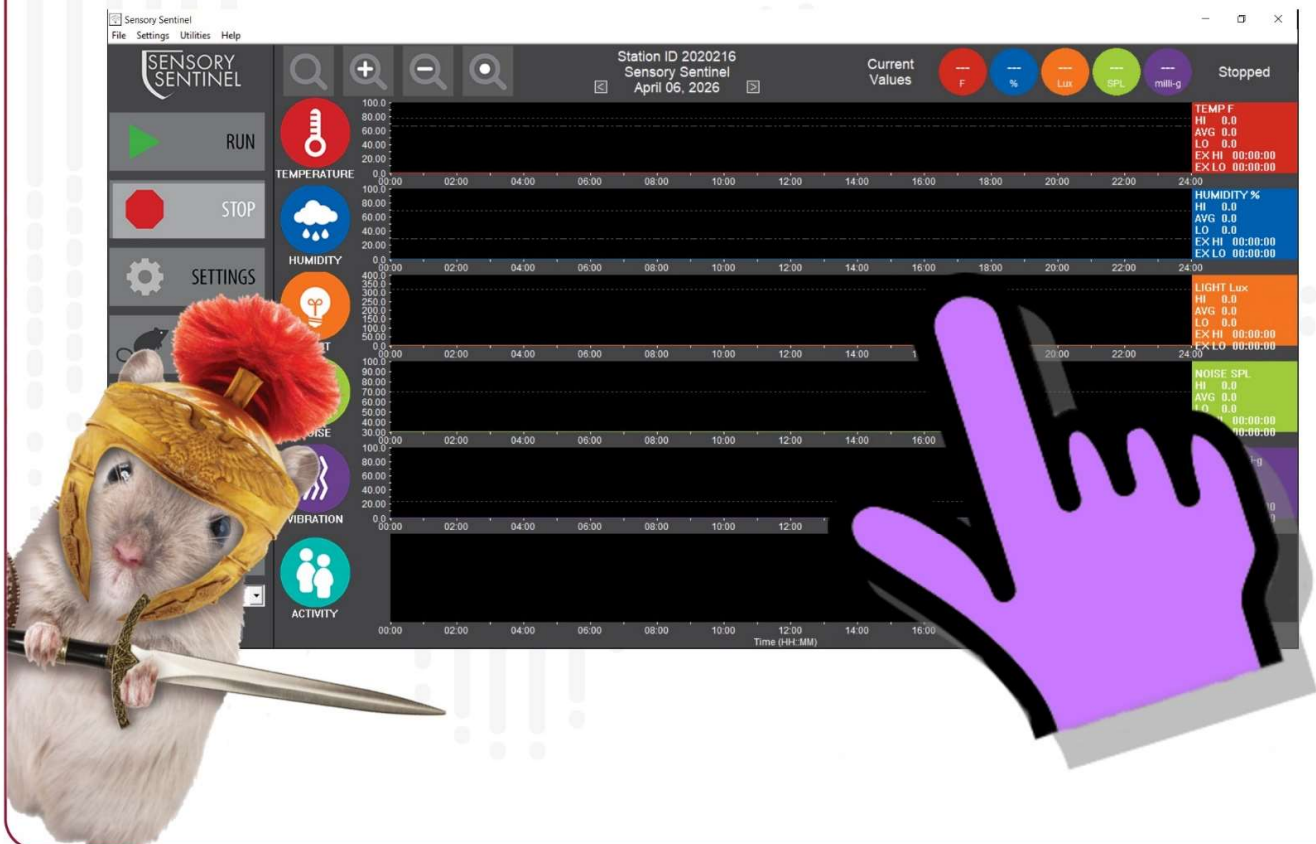


SENSORY SENTINEL

TURNER SCIENTIFIC 

Data Screen Guide



Data Screen Overview



1 Current Values

5 Magnification

2 System ID,
Station Name & Date

6 Graph Data Summary

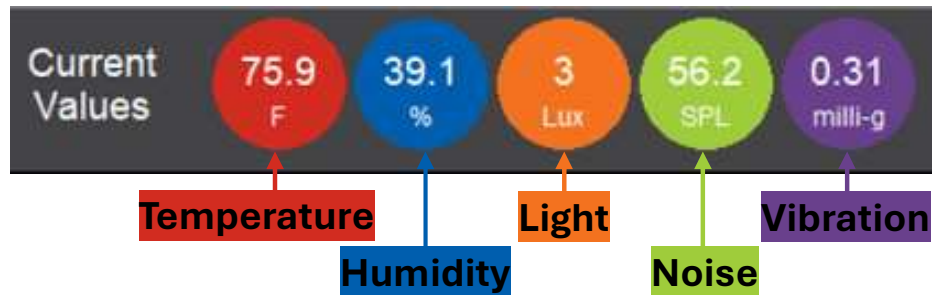
3 Data Graphs

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8 Sensory Sentinel Menu

1 Current Values

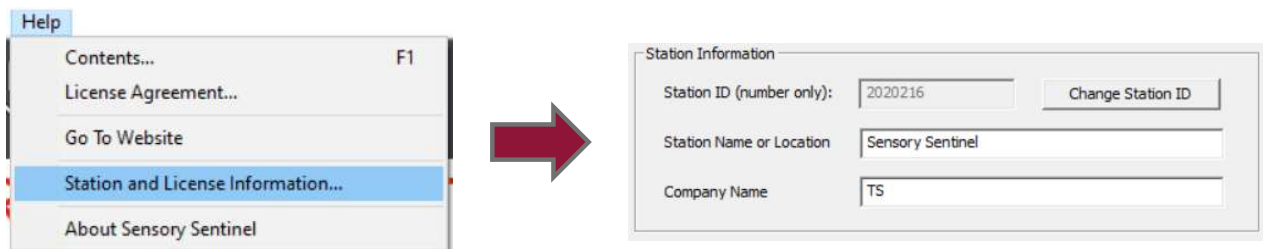


The Current Values display is the current environmental data your Sensory Sentinel is collecting. From left to right is Temperature, Humidity, Light, Noise and Vibration.

2 Station ID, System Name and Date

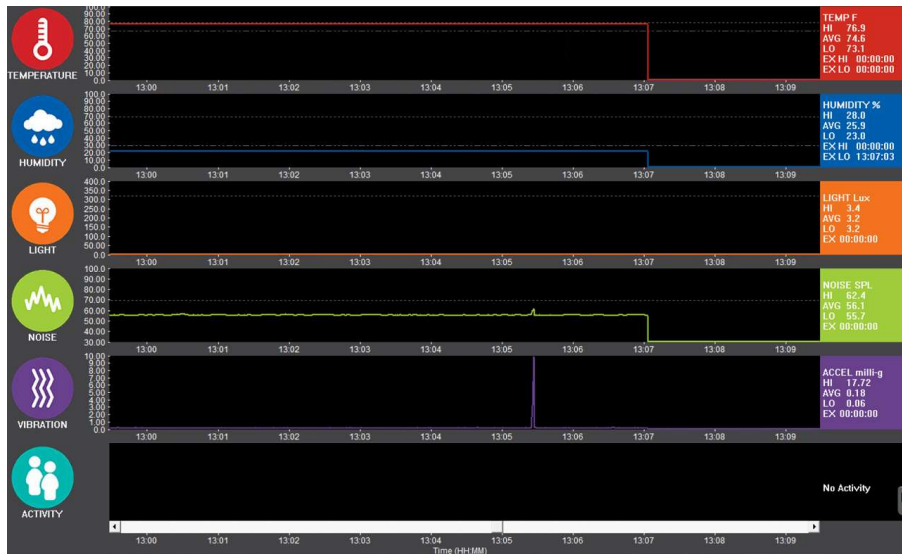
Station ID 2020216
Sensory Sentinel
April 02, 2026

At the top of the screen will be the Station ID. Think of it like a Serial number for the program running on the Sensory Sentinel.

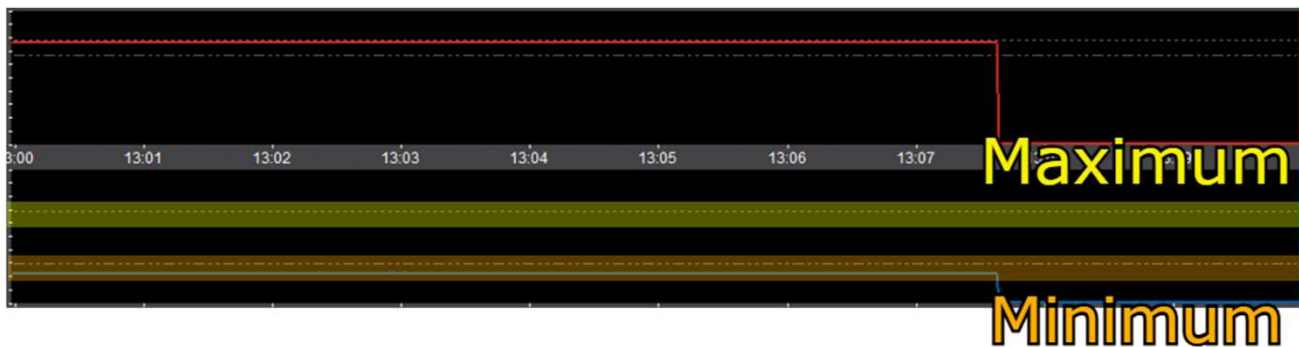


The System name is a custom entry, usually chosen by us before it arrives to you. It is used to identify the physical Sensory Sentinel device. It can be customized in the “Station and License Information” menu in the “Help” tab.

3 Data Graphs



The data graphs are sorted from top to bottom by Temperature, Humidity, Light, Noise, Vibration and Activity. These graphs show all historical and current environmental data from the connected sensors.



Threshold Maximums and Minimums are shown by dotted and dashed lines within the graphs. By default, the environmental thresholds for each species are based on the 8th edition of The Guide for the Care and Use of Laboratory Animals.

Ideally, animal environmental variables should remain between the grey dotted lines. The Sensory Sentinel alarm feature can be programmed to send email alerts of any exceedances.

4 Graph settings & Icons



To the left of the graphs are the environmental icons. Select any icon to open the “Plot Options” menu for the data log. The “Plot Options” menu lets you adjust the layout of the graph and units to be measured. This is programmed by default for each species, however the Sensory Sentinel settings are completely

customizable.

Vertical Scale
adjusts specific range for Y axis, data (zoom)

Threshold Max/Min

(Separate from Alert Thresholds)

Auto Scroll
Advances the data log to reflect current values.
(recommend toggling off for data review)

Grid line and Trace options

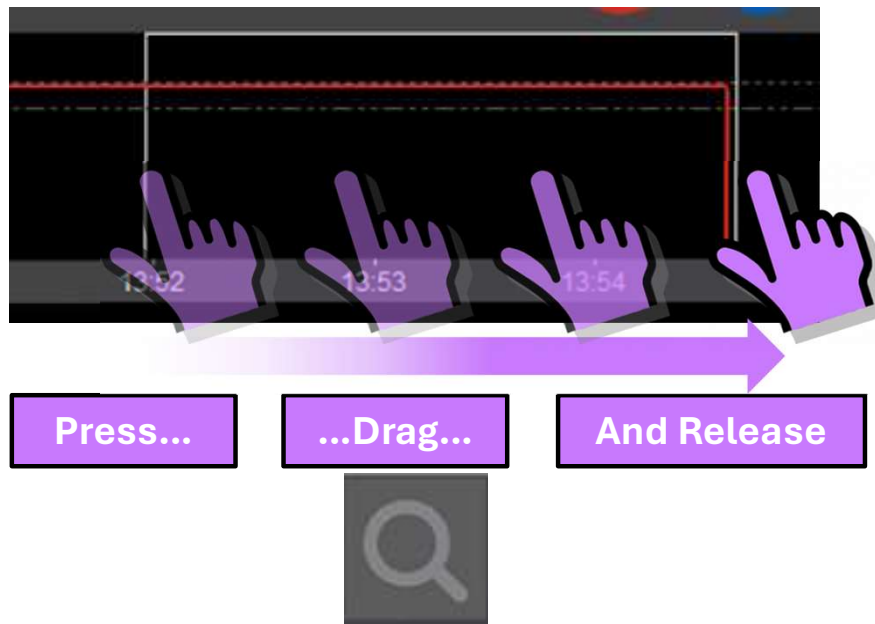
helps to visually define intervals and segments in data

Temperature and Vibration Units

5 Magnification



Above the data log are four magnifying glasses. Each serves a different purpose to assist in detailed review of your data. They help you to zoom in or out or select a specific timeframe.



The leftmost magnifying glass allows you to press, drag and release around the timeframe you want to zoom in on.



+ and - zooms in or out relative to the center of your current view and/or selection.



- Reverts the view to a full 24 hour scale.

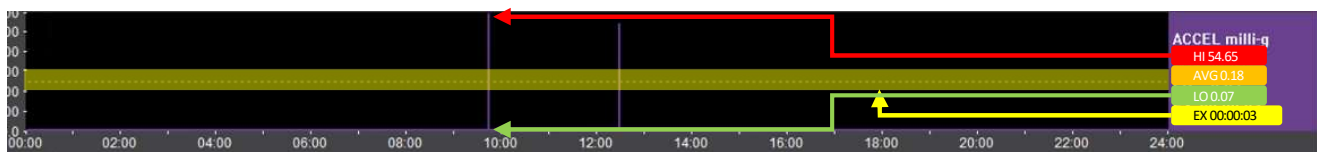
6 Graph Data Summary

TEMP F HI 78.7 AVG 78.2 LO 77.7 EX HI 00:00:00 EX LO 00:00:00	HUMIDITY % HI 21.2 AVG 20.4 LO 19.9 EX HI 00:00:00 EX LO 12:31:39	LIGHT Lux HI 3.4 AVG 3.4 LO 2.2 EX 00:00:00	NOISE SPL HI 62.3 AVG 56.1 LO 55.7 EX 00:00:00	ACCEL milli-g HI 97.01 AVG 0.18 LO 0.07 EX 00:00:03
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Each variable has summary statistics on the right side of their associated graphs.



These statistics show the Highest, Average, and Lowest values within the displayed data. It also shows the duration of exceedances past the dotted threshold lines. (HH:MM:SS)

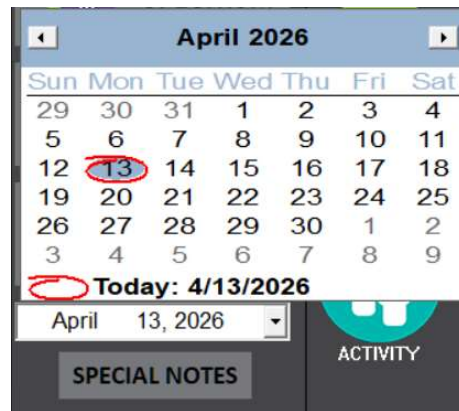


When zoomed into a section of time, it will only show the statistics of that section of time.

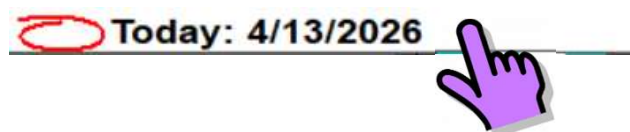
- Square each value
- Add them up (this is the sum of the squared values)
- Compute the average (divide the sum by the number of values)
- Take the square root of the average
- Convert this value from Pascals to SPL (dB)

Note: The averaging of noise is not a simple algorithmic average. Noise averaging is logarithmic, explained above.

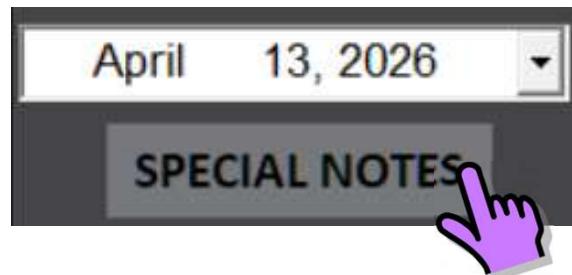
7 Calendar and Special Notes



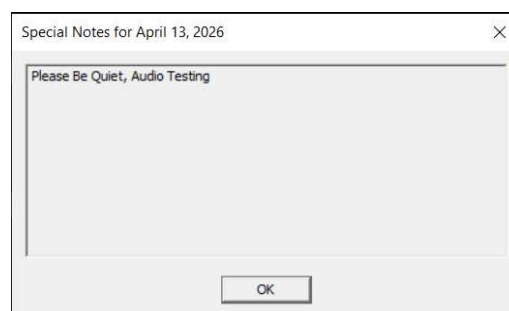
The Calendar allows you to choose the date(s) displayed on the data log screen. Today's date is highlighted by a red circle.



You can also select the "Today: ##/##/####" at the bottom of the calendar to switch to today's date.

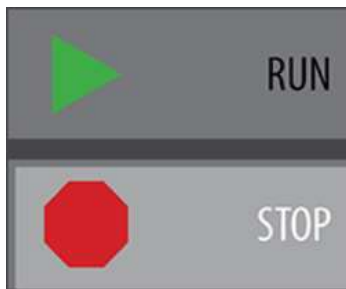


Special Notes allows you to review the Special notes that were input on the Check-In screen for that day.



The text box will be empty if no Special Notes were input on that day. To change the date of the Special Notes, simply select a date on the calendar.

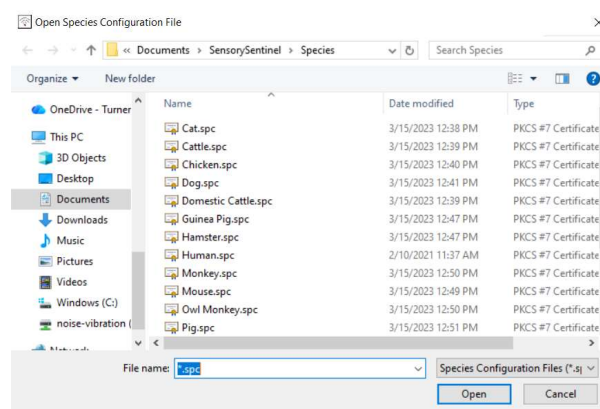
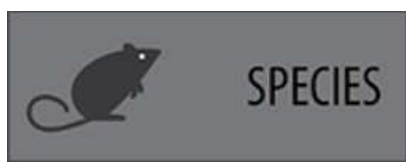
8 Data Log Options



**RUN will start data gathering if the system is STOPPED.
STOP will stop data gathering if the system is RUNNING**
(shown by the associated highlighted buttons)

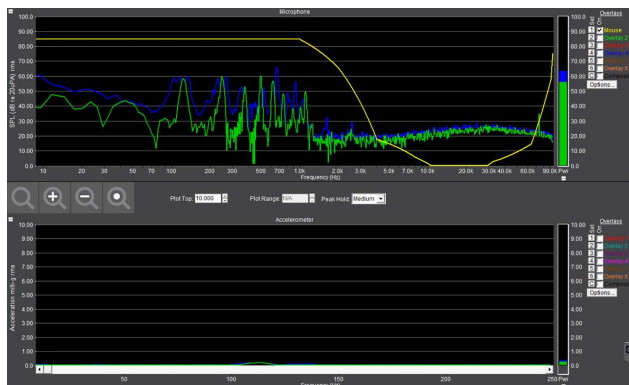


SETTINGS will open the Processing Settings menu, allowing you to change Email alert, Noise and Vibration, Calibration and Device settings.



SPECIES will open our inventory of species-specific sensory files. Choose the species you want to monitor, and your Sensory Sentinel will tune itself to only capture that species' hearing environment. The Sensory Sentinel has 18 species pre-loaded, however many more can be requested from the Turner Scientific Monitoring team!

8 Data Log Options



The SPECTRUM icon will bring you to the Spectrum screen. This screen shows the hearing range and current vibration level for the selected species the system is tuned to.



DATA LOG icon will bring you back to the Data Screen .



CHECK IN will switch you back to the Check-In screen.

Contact Turner Scientific for additional support at info@turnerscientific.com