

MINNOW LOGGER

Quick Reference Guide

(Minnow 1.0T & Minnow 1.0TH)

Description

The Minnow Logger is a portable, battery operated, temperature and humidity data logger able to store 65,520 samples of both temperature and humidity along with a time stamp. The Minnow Logger runs off of a CR2450 coin cell battery that enables it to run for over 4 years.

This Quick Reference Guide gets you started with the logger with the most basic functions to have you up and running with your logger in a matter of minutes.

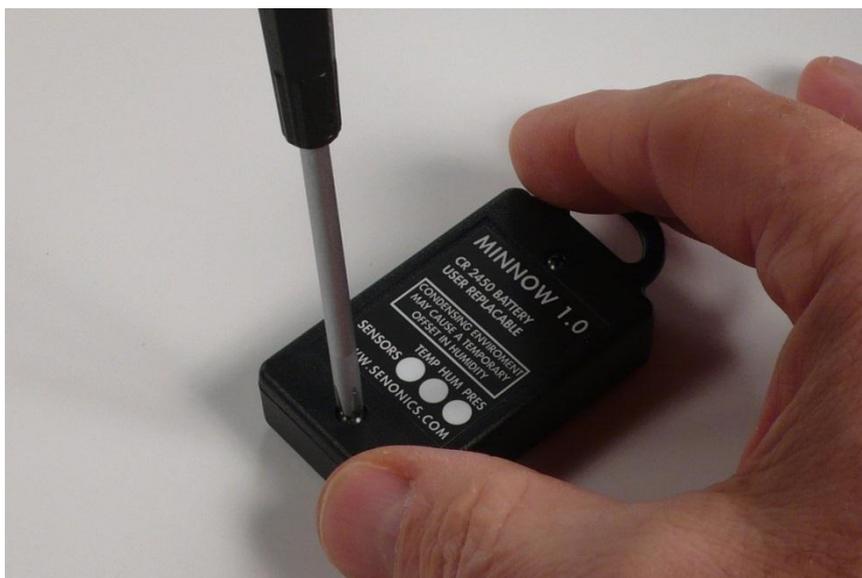
The Minnow product today comes in two versions; Minnow 1.0T is a temperature only version and Minnow 1.0TH is a temperature and humidity logger. This quick reference guide applies for both versions.



Battery Installation

The Minnow logger runs from a standard coin cell battery. We recommend a CR2450 620mAh Coin cell battery. There are different manufacturers but a good one is Panasonic CR-2450/G1AN. You can find it easily on the web from different places such as www.digikey.com, www2.mouser.com and probably in your local supermarket. The key thing is to choose a CR2450 battery with high capacity since this will translate into a longer logger battery life.

First remove the Minnow cover by unscrewing the two fastener screws (#1 Philips) at the rear of the logger.



Then remove the circuit board from the box (use soft tool or fingernail to remove)



Insert a new battery as shown being careful not to touch and exposed electronics in the process. Finally re-attach the cover and tighten the fastener screws again (be careful not to over tighten).

Connecting to a Minnow Logger

To configure or retrieve data from a logger you will need a Windows PC running Windows XP, Windows Vista, Windows 7 or Windows 8. Alternatively, you can also install the application on a Mac. Connect the Minnow logger to your PC using the provided USB cable. Any USB port on the PC can be used.



Configuring a Minnow Logger

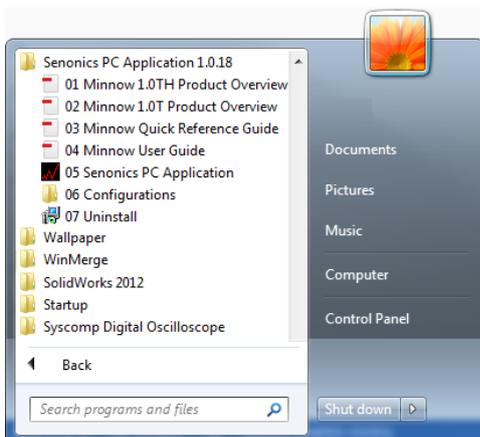
Installation of the Senonics Minnow PC application is very simple. The Minnow needs no special drivers since it is a USB HID device and such devices can make use of the standard drivers that come with Windows. Simply download and run the application from the following link:

http://senonics.com/bin/SenonicsPCApplication_Installer.zip

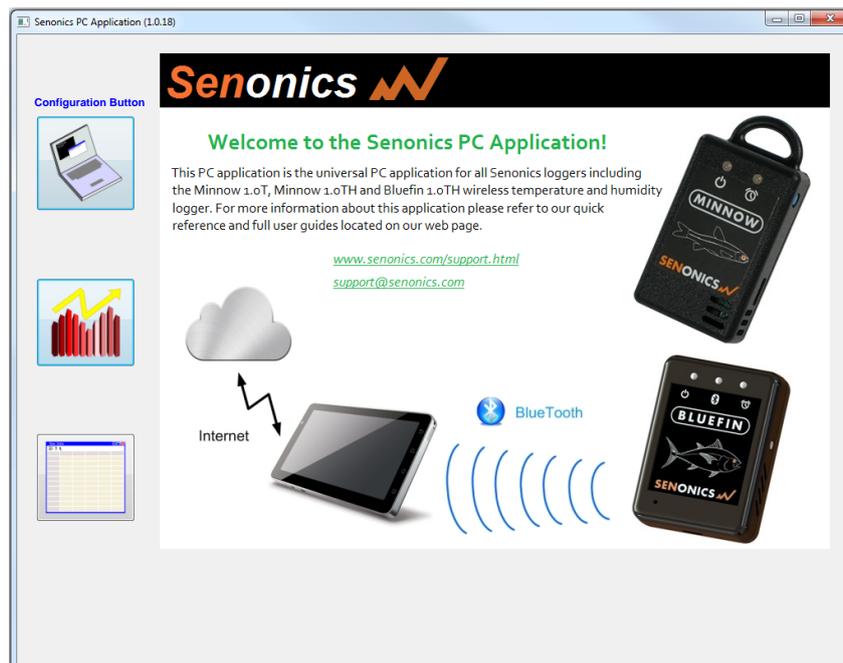
On a Mac then simply follow the instructions found on this page. Usage is the same as for Windows.

<http://senonics.com/mac-installer.html>

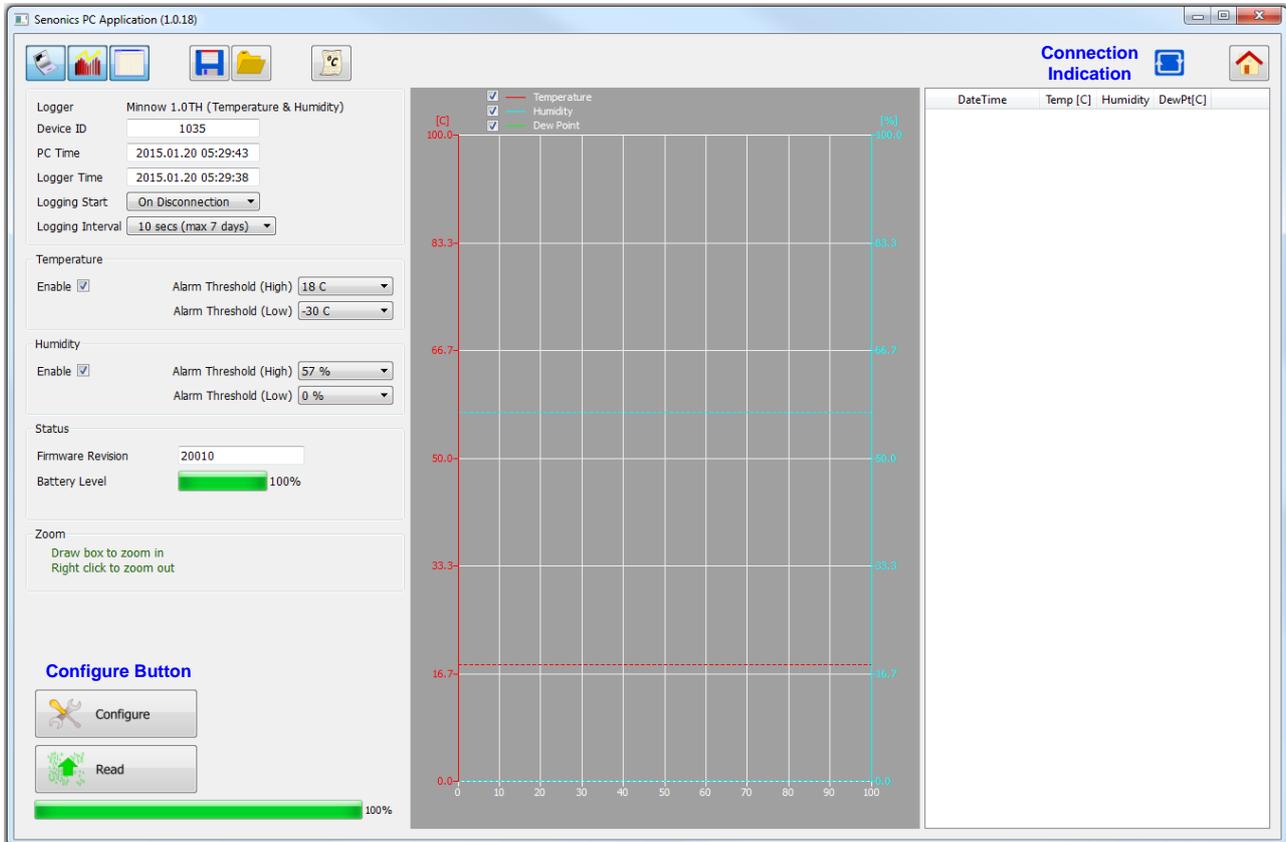
In the Windows Start Menu launch the Senonics PC Application.



The front page of the GUI is an overview of the logger. Press the Configuration button to get to the next page.



Connect the logger and you will see the connected indication changes to blue.



Next fill out the configuration settings. For example:-

- °C or °F
- logging start to "On Disconnection"
- logging interval to say 10 seconds
- temperature alarm enabled and thresholds set
- humidity alarms enabled and thresholds set

Press the "Configure Button" so that the settings are updated in your logger. Please wait until the software has finished updating the logger.

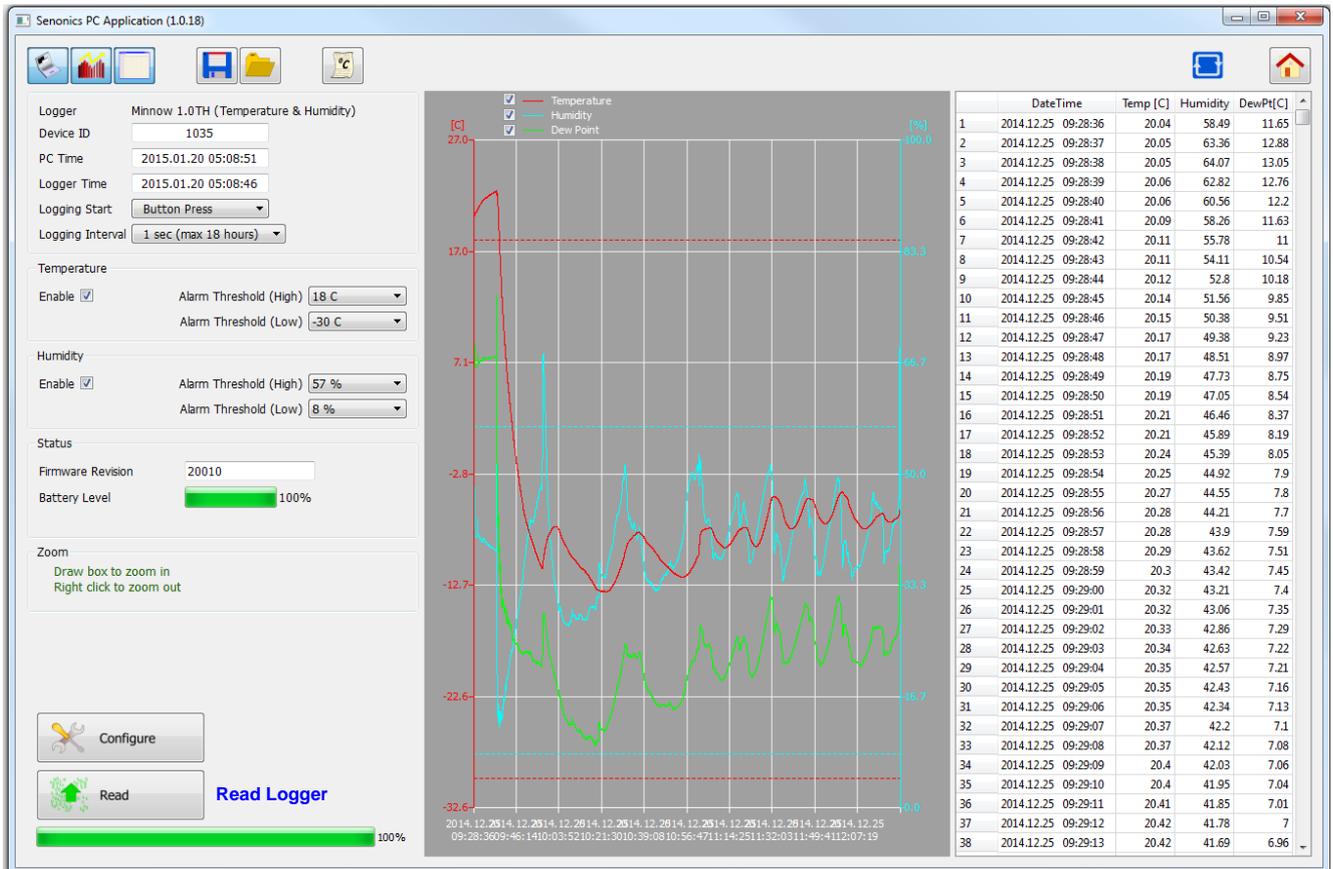
Disconnect the logger. You should see that logging will start automatically indicated by a 1 second green light. The green light will then flash every 6 seconds to indicate that the unit is logging. The red light will flash also in the case that the temperature or humidity goes outside of the allowed limits and triggers the alarms.

If the log becomes full then all lights will stop flashing.

Retrieving Data

Connect your Minnow logger. The logger red light will illuminate for 1 second indicating logging is stopping. Start the PC application and navigate to the Configuration page.

Press "Read Logger Configuration/Data" to retrieve the configuration and data from the connected logger. Wait until all information is retrieved from the logger.



The graph and spread sheet will be filled with the logged data.

Zooming in and out of the graphs can be achieved by the following controls:

- to Zoom In - drag the left mouse button
- to Zoom Out - click the right mouse button
- when zoomed in you can move around using the key-board arrows or the mouse scroll wheel

To write data and configuration to file, press the save icon.

More Advanced Topics

This document has shown the most basic way to configure the Minnow logger in order for you to get started very quickly.

There are for example other logger start modes such as button press, start at a defined time and real time logging. For a more exhaustive description of all features of the logger then please consult the full Minnow User Guide.

<http://senonics.com/files/MinnowUserGuide.pdf>

Product Support

For technical support questions regarding the Senonics Minnow logger please contact:

support@senonics.com