

## Getting Started: The Basics of Configuration and Data Collection for Nomad 2



### 1. Create a Configuration File in Nomad Desktop.

First you will want to configure your Nomad 2, this is done using the Nomad Desktop software program. In Nomad Desktop, and click on the **Tools** tab and then the **Site & Input Configuration** button, and open the **EmptyConfig.new** file.

Click on the **Site** tab, and enter the appropriate information.

*Note: It is best to get the Site information correct the first time, because if you change any site information later on, the Nomad 2 will create an entire new set of data tracks, and you will not be able to view all your data on one graph.*

Click on the **Inputs** tab. C1-C12 represent the counter (anemometer) inputs, and A1-A8 represent the analog inputs. Inner Temp, Battery 1, Battery 2, and 12V Power are also available for data collection.

Click on the first input to configure, and select the **Type**, **Name** (model), and **Units** from the dropdown lists. The default configuration for that sensor will appear. Add or change any information as necessary.

Click **Add** in the Track Information section of the page and choose the **Function** and **Interval** from the dropdown lists. You may add up to 8 tracks. Be sure to click **OK** after each track is configured.

Configure the remaining inputs you will be wiring to the logger, and any of the four internal inputs. We **HIGHLY RECOMMEND** that you also record hourly average data tracks for the two 9V Batteries, and for 12V Power if you have a 12V battery connected to the logger.



Click **Export** when you have completed your configuration to create a .csv file that can be printed and carried to the field for reference during wiring.

Click **Save**. The default folder is the C:\NomadDesktop\Config folder. The default name for the file is "n2config.new". We recommend that you add the serial number and the date to the name of the file at this point, for example "N2Config 00123 2-17-05.new".



### 2. Upload the Configuration File to the Logger.

The next step is to transfer the configuration file to the Compact Flash card that is/will be inserted in the logger. There are three ways to do this:

1. Plug the Compact Flash card into a reader connected to your computer, and copy the file onto the card using Windows Explorer. Be sure to properly eject the card to ensure the file is saved on the card.
2. Make a Direct Connection  to the Nomad 2 with a serial cable and upload the file.
3. Make a Remote Connection  to the Nomad 2 with a modem and upload the file. The logger must already be configured and have a modem installed to use this method.

*Note: The configuration file must be named **n2config.new** when it is placed on the Compact Flash card in the logger, because that is the name the logger will search for and recognize as a new configuration. If it is named anything else, the logger will not recognize it and the logger will not be configured. If you use Windows Explorer to copy the file to the Compact Flash card, you will need to manually rename the file. If you are using the Direct Connection or the Remote Connection, use the **Upload Site & Input Configuration as n2config.new** button and Nomad Desktop will automatically rename the file to n2config.new during the transfer.*



### 3. Download Your Data from the logger.

Once your logger has been configured and has begun collecting data, you can download the data files to your computer. You may receive the data files via a Compact Flash card swap, an email from the logger, or a Direct or Remote Connection. The default location for data files is the **C:\NomadDesktop\Transfer** folder; we recommend that you save your data files here. Be sure to keep the “.ndf” extension on the file names when saving them. It may be useful to create subfolders in the Transfer folder to further organize your data.

*Note: These data files are your BACKUP – you will want to make sure you always keep these files. The Compact Flash card will probably be large enough to keep a copy of all the data files, so this can act as your backup as well.*



### 4. Import the Data into the Nomad Desktop Database.

*Note: The data files (.ndf's) can only be read with the Nomad Desktop software program; once they are imported, the data can be exported to a .csv file for use in other programs such as Microsoft Excel.*

Click on the **Tools** tab and then the **Import Data Into Database** button.

Select the files you would like to import, click **Add** and then **Import**.

When data from the logger is imported for the first time, an icon of the logger will appear on the Map screen. Select the icon by clicking on it with your mouse. If you have more than one icon on the Map screen, you can use the **Move Nomad2 Icon** button to rearrange the icons.



### 5. View the Data Using Nomad Desktop Graphs and Reports.

Select the Nomad 2 icon on the map screen. Go to the **Working Interval** in the upper middle section of the Nomad Desktop screen, and choose a time interval from the dropdown list. You can select the entire range of data by choosing **Other** from the dropdown list.

Click on the **Graphs and Reports** tab and then on any of the graph or report buttons you would like to use. Choose the **Track(s)** to be included in the graph or report, and click **OK**.



### 6. Export Your Data to a Comma Separated Values File.

Click on the **Tools** tab and then on the **Multi-Track Export** button. Choose the **Working Interval** and the **Device** and then click **OK**.

Highlight the data tracks you would like included in the export.

If you have tracks recorded at different time intervals, you can choose an **Averaging Interval** from the dropdown list.

Click **Export** and a .csv file will be created that can be viewed with a program such as Microsoft Excel.