



kWh Assistant

For HOBOWare® Pro Software

User's Guide

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About Data Assistants

Data assistants are plug-in utilities for HOBOWare Pro. They let you create new data series by combining data recorded by the logger with additional data that you enter before you display the plot. If your logger or datafile contains data that supports a data assistant, you will see a Data Assistants section at the bottom of the Plot Setup dialog. Select an assistant and click **Process** to continue. For information about installing and managing data assistants, refer to the following page at the Onset web site:

<http://www.onsetcomp.com/dataAssistants>

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Introduction

The kWh Assistant converts logged pulse data from a WattNode, Veris, or other energy transducer to kWh, average kW, and energy cost. After the data is displayed in a plot, you may apply filters to the new series.

This assistant can be run from the **Launch** window (Pre-set Parameters) or from the **Plot Setup** dialog. If you run the assistant from the **Plot Setup** dialog, you must run the assistant each time you readout the logger or open a datafile.

Pre-set Parameters

If you run the assistant from the **Launch** window, parameters are applied automatically each time you readout the logger. Once you have pre-defined a parameter set, the parameters are also used when current readings are viewed in the **Status** window. Parameter sets are stored on the logger and apply to that logger and channel configuration only.

The parameters last entered into any given Data Assistant will be the default used the next time the Data Assistant is run, unless it is being used to edit an existing parameter set. If you run a Data Assistant at Plot Setup time, and the next time you run it from the **Launch** window, the default values are the value you entered at Plot Setup time.

The Pre-set Parameters feature is available for the HOBO U30, the HOBO H21 (Weather Station and Micro Station) and the HOBO H22 (Energy Logger Pro) loggers.

Sensors

This assistant can be applied only to data from a S-UCA-xxxx or S-UCC-xxxx Electronic Switch Pulse Input Adapter. It is not compatible with the S-UCB-xxxx or S-UCD-xxxx Contact Closure Pulse Input Adapter.

Using the kWh Assistant

Running the Assistant

From the **Launch** window:

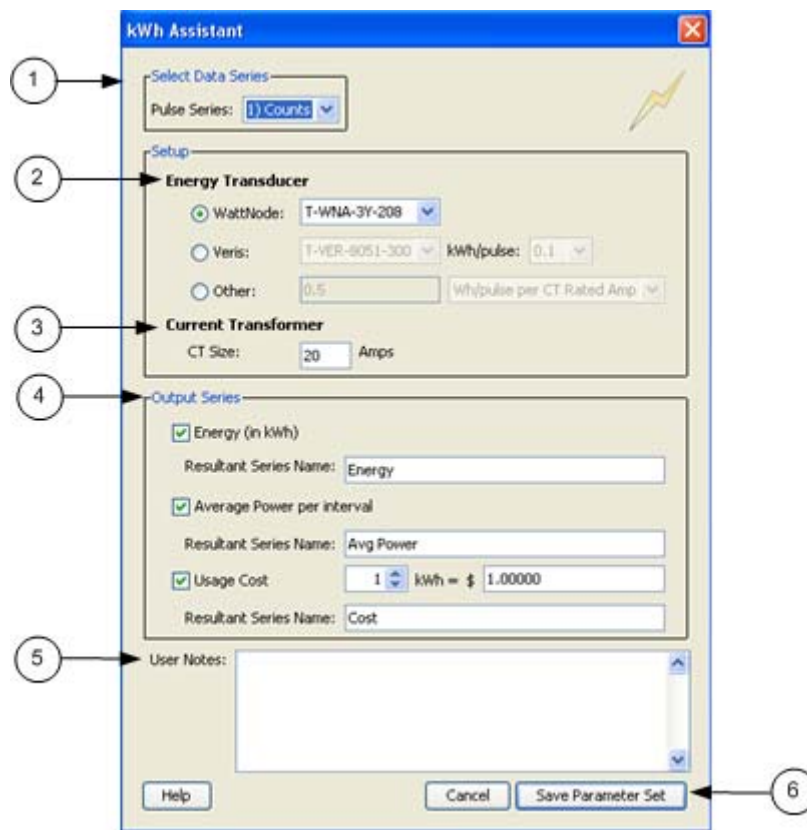
1. Launch a logger that has a supported Electronic Switch Pulse Input Adapter connected.
2. Click the **Data Assistant** button.
3. Double-click the assistant name or,
select the kWh assistant name and click the **Create** button.

From the **Plot Setup** dialog:

1. Read out a logger or open a datafile that contains a Counts series from a supported Electronic Switch Pulse Input Adapter.

2. Select kWh Assistant.
3. Click the **Process** button.

The **kWh Assistant** dialog appears.



1. Select Data Series

If your datafile includes multiple Counts series, choose the one you want to convert from the **Pulse Series** drop-down list. (If your logger supports sensor locations, the location you entered will be displayed here.)

2. Setup/Energy Transducer

In the Setup panel, select the **Energy Transducer** that was used, and choose the model number from the drop-down list. (Since the Veris transducers have a switch to define **kWh/pulse**, you must specify that here as well.)

If your transducer is not listed, select **Other** and enter the conversion factor. Choose the type of conversion (**Wh/pulse per CT Rated Amp**, **Wh/pulse**, or **kWh/pulse**) from the drop-down list. You should be able to find this information in the manual that came with your energy transducer.

3. Setup/Current Transformer

Enter the current transformer size (in Amps) in the **CT Size** field. (Veris transducer CT sizes are predefined).

4. Output Series

In the Output Series panel, select one or more series you wish to create. For each series, you may keep the default **Resultant Series Name**, or enter a new one.

- To create a series that shows energy in kWh, check the **Energy** box.
- To create a series that shows average power, check the **Average Power** per interval box.
- To create a cost series, check the **Usage Cost** box and enter the cost per kWh.

5. User Notes

Enter any **User Notes** concerning the series you are creating (optional).

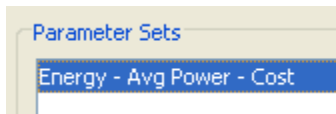
NOTE: All of these settings will be retained as default values the next time you access the kWh Assistant.

6. Save Parameter Set or Create New Series

If you are in the **Launch** window, click **Save Parameter Set**.

If you are in the **Plot Setup** dialog, click **Create New Series**.

NOTE: If you are creating a Parameter Set in the **Launch** window, the set will appear as a string of the three Resultant Series Names, separated by hyphens, as shown below.



To create additional series using a different raw series or different parameters, click the **Create** button (if in the **Launch** window) or the **Process** button (if in the **Plot Setup** dialog).

Generating New Series

If you are running the assistant from the **Launch** window, the parameters will be applied each time you readout the logger.

If you are running the assistant from the **Plot Setup** dialog, the new series will be generated when you click the **Plot** button.

Display

The scaled series will be displayed in the plot, the legend, and in the **Details** pane (shown below).



Available Filters

After the plot is displayed, you may apply filters to the new series as you would for any other series in HOBOWare Pro. In addition to the minimum, maximum, and average filters that are available for most series, the energy and cost series allow you to create new series showing totals over a period of time.

Software Updates

If you have an Internet connection, HOBOWare Pro can periodically ask if you would like it to check the Onset website for software updates. This includes updates to your data assistants.

The default is to check once per week, but you can configure HOBOWare Pro to check daily or monthly. In Preferences, go to the General pane. **Check for HOBOWare updates** is located under the Startup heading.

You may check for updates manually at any time. Choose **Check for Updates** from the Help menu.

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