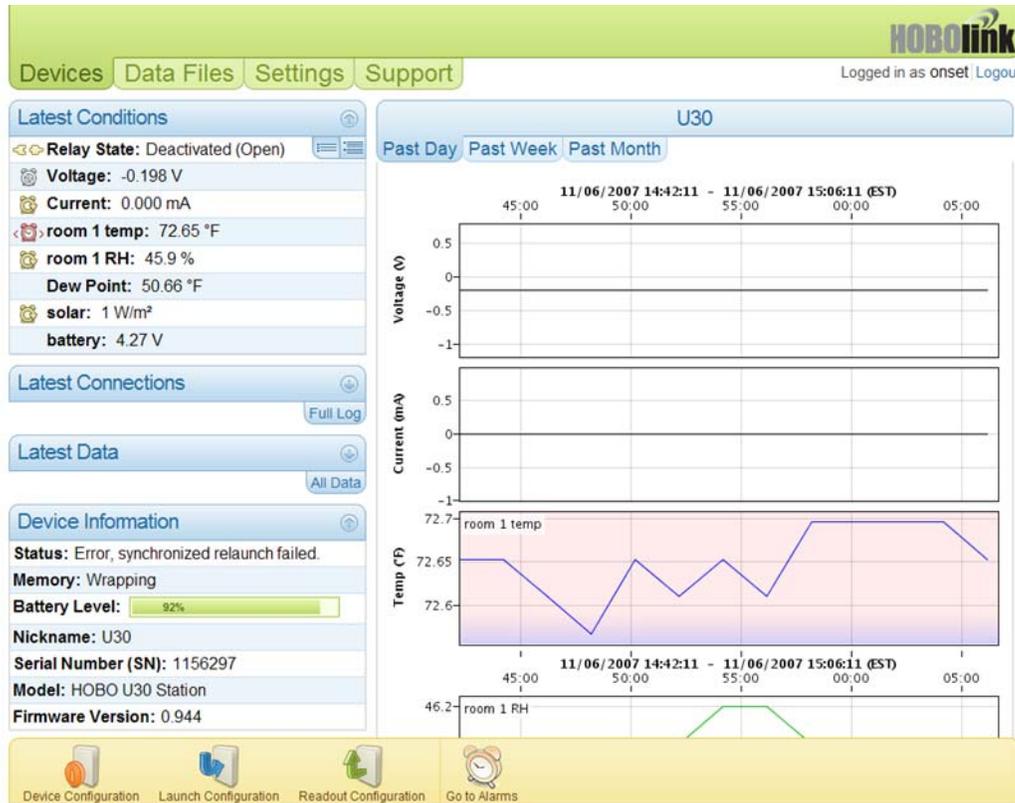




HOBOLink



Quick Start Guide

A guide to configuring the U30 Station using HOBOLink

Go to the HOBOLink Web Help for more detailed information on using HOBOLink.

Summary of HOBOLink Tasks

Before You Begin

- Perform Remote Monitoring System Installation, including:
- Assemble Tri-pod (if applicable)
 - Mount U30 Station (if applicable)
 - Configure Optional Analog Sensor Ports with HOBOWare

See the Remote Monitoring System WebHelp or User Guide for details

HOBOLink Registration

www.hobolink.com

1. Create HOBOLink Account

2. Activate HOBOLink Account

3. Register U30 Device

Initial Configuration

4. Name Device/Set Timezone

5. Configure Launch Settings

6. Configure Readout Settings

Attach sensors to the device and connect battery, then wait at least 5 minutes before performing final HOBOLink configuration.

Final Configuration

7. Label Sensors

8. Configure Alarms

Viewing Alarms and Data

View Device Info and Graphs

View Alarms

Download and View Data Files



Create a HOBOLink Account

Before you power-up the U30 Station you should create and activate a HOBOLink account.

Go to <http://www.hobolink.com>

Don't have an account?
No problem, creating one is easy and free.

a. Click here to go to the Create Account window

[Create an Account](#)

Create a HOBOLink Account

b. Enter Information as required

First Name: **Last Name:**

Email Address:

Username:
available

Password: **Confirm Password:**

Terms of Use:

WEB SITE ACCESS LICENSE AND TERMS OF USE
Onset Computer Corporation ("Onset") operates an access-controlled web site at www.hobolink.com (the "Site"). Onset is willing to grant you access to the Site, subject to the following Access License ("License") and Terms of Use ("TOU"). By completing the site entry registration information and clicking the "I Agree" button on registration, you are agreeing to be bound by the terms of the License and TOU. In addition, when using the Site in conjunction with any other Onset owned or operated services, you shall be subject to any posted guidelines or rules applicable to such services, which may be posted from time to time. All such guidelines or rules, where applicable, are hereby incorporated by reference in the TOU.

IF YOU DO NOT WISH TO BE BOUND BY THE TOU, YOU MAY NOT ACCESS OR USE THE SITE.

I Agree

c. check to accept Terms and Conditions

d. Click here to create account

[Create Account](#)



Name Device and Set Timezone

a. Click the device name to go to Device Window

c. Enter a **Nickname** for the device.

d. Select the appropriate **Time Zone** for the device.

e. Click **Save**

To access the Device Configuration panel, click **Device Configuration** on the Task Bar at the bottom of the Device Window

The screenshot shows the HOBOLink interface with a 'Devices' table containing one device named 'u30' with serial number '1156297'. Below the table is the 'Device Configuration' panel with a 'Nickname' field containing 'U30' and a 'Time Zone' dropdown menu set to 'Eastern Time (US & Canada)'. At the bottom of the panel are 'Cancel' and 'Save' buttons. A task bar at the bottom of the panel includes icons for 'Device Configuration', 'Launch Configuration', 'Readout Configuration', and 'Go to Alarms'.

A **Nickname** of up to 30 characters that identifies the device.

If you will be setting up more than one device, it is helpful to select a meaningful name so that you can easily identify it from the list of all your devices in HOBOLink.

This will take effect as soon as you click **Save**.

The appropriate **Time Zone** setting for the device ensures that the time stamps for your data are displayed properly for your region.

If Daylight Saving Time is in effect for your time zone, the time will be adjusted accordingly.

Changes to the time zone will not be reflected in the graphs until after the next connection with HOBOLink.

2

Activate Your HOBOLink Account

Before you can begin using HOBOLink to configure your U30 Station you must activate your account.

Open the Activation e-mail from Onset and click on the hyperlink. This will automatically log you into your account and take you to the Devices window.

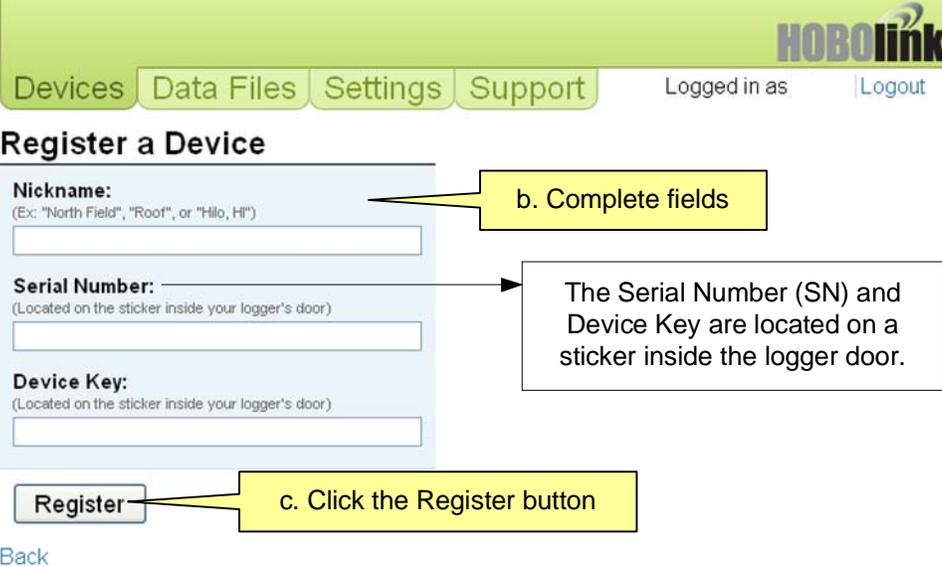
3

Register a Device

a. Click on the **Register a Device** link to go to the **Register Device** window



After you log in for the first time you will see this message.



b. Complete fields

The Serial Number (SN) and Device Key are located on a sticker inside the logger door.

c. Click the Register button

Once you register a device it will appear in the Devices Window



Nickname	Serial Number	Relay State	Alarm Status
u30	1156297		



Configure Device Launch Settings

To access the *Launch Configuration* panel, click the **Launch Configuration** icon at the bottom of the Device Window.

The Launch Configuration panel allows you to adjust details of your logger's current deployment. Any changes you make on this panel will cause the logger to re-launch at the next connection time.

The **Logging Interval** is the rate at which the logger will record data. The minimum logging interval is one minute, and the maximum for most loggers is 18 hours. The shorter the logging interval, the more quickly the memory fills and battery power is consumed.

The Logging Interval must be at least twice the Connection Interval (configured next in the Readout Configuration panel).

The **Sampling Interval** allows you to take multiple measurements within the logging interval, then average them together to create a single logged measurement. This feature is not available on all loggers. The Sampling Interval must be less than or equal to the Logging Interval.

The **Launch Description** is used as the file name for data readouts.

a. Enter values and make selections as desired.

Launch Configuration

Launch Description:
November 26th

Logging Interval:
0 hours 1 minutes 0 seconds

Sampling Interval:
 Enabled
0 hours 0 minutes 0 seconds

Wrap Around When Full

Force Relaunch on Next Connection

Full Readout upon Power Reset

Save

Device Configuration | Launch Configuration | Readout Configuration | Go to

Wrap Around When Full - If this box is checked the logger will continue logging after the memory is full. Existing data will be overwritten, however, all data that has been read off the logger will be saved to a data file.

If wrapping is not enabled, the logger will stop when the memory is full and you must manually read out the data and restart the logger.

See the HOBOLink WebHelp for an explanation of the effect of wrapping on the content of Data Files.

Onset recommends that you do not enable the Full Readout feature.

See the HOBOLink WebHelp for more information and alternatives.

b. When you are done click **Save**.

Force Relaunch on Next Connection - If this box is checked the logger will relaunch the next time it connects to HOBOLink even if there have not been any other changes to the launch settings.

For example, you might need to relaunch a logger that has filled up (without wrap enabled) and stopped, or to begin logging with new/changed sensors.

After the relaunch this feature will be disabled.

To access the *Launch Configuration* panel, click **Launch Configuration** on the Device Task Bar

NOTE: Any changes you make on this panel will cause the logger to re-launch at the next connection time.

Next Task: Configure Readout Settings



Configure Device Readout Settings

The Readout Configuration panel allows you to configure how often your logger connects to HOBOLink to upload data.

NOTE: If you are performing a pre-deployment test set-up, you may want to configure a more frequent connection interval (such as 10 minutes) so that you can verify proper operation without having to wait a long time for updates. Once you confirm the readouts are occurring as they should, you can change the connection interval to your desired on-going schedule for your real deployment.

The **Connection Interval** is the rate at which the logger will contact HOBOLink and its data will be read-out.

At each interval, the data is uploaded to HOBOLink and stored in a data file, and the details are updated on the Device Info panel.

The shortest possible interval is 10 minutes, or twice the Logging Interval, whichever is greater.

The **Connections Per Day** box indicates the number of connections the logger will make to per day based on the current Connection Interval (not including alarms).

Night Mode allows you to set up two readout schedules with more frequent connections in one period and less frequent connections in another, to preserve battery power and minimize connection charges.

Check here to have data saved in .txt format for viewing in a program other than HOBOWare Pro.

See *Sample Text Data File* in the HOBOLink WebHelp.

a. Complete fields as desired.

b. When you are done click **Save**.

To access the Readout Configuration panel, click *Readout Configuration* on the Device Task Bar

IMPORTANT: Before you proceed with HOBOLink configuration, plug in your sensors to the U-30 Station and connect the battery and then wait at least 5 minutes for the blue light to stop flashing.



IMPORTANT: Before you proceed with HOBOLink configuration, plug in your sensors to the U-30 Station and connect the battery and then wait at least 5 minutes for the blue light to stop flashing.

You should label your sensors to identify them in HOBOLink, especially if you have more than once sensor of the same type.

You access the Sensor Label from the Latest Conditions panel on the Device Window

Label Sensors

The image shows two screenshots of the 'Latest Conditions' panel in HOBOLink, illustrating the steps to add a label to a sensor.

Step a: The first screenshot shows the 'Latest Conditions' panel with the following data: Relay State: Deactivated (Open), Voltage: -0.194 V, Label: [Add Label], Serial Number: 29-1, and Product Code: 91-U30-CVIA. A callout box labeled 'a. Click here to expand the panel' points to the expand/collapse icon in the top right corner of the panel.

Step b: The second screenshot shows the same panel, but the 'Label' field is now active and contains the text 'type label here'. A callout box labeled 'b. Click here to add label' points to the '[Add Label]' button. Another callout box labeled 'c. Type label text here' points to the text input field. A third callout box labeled 'd. Click OK' points to the 'ok' button.

Next Task: Configure Alarms



Configure Alarms



Click here to return to the Device window

To access the Alarm window, click *Go to Alarms* on the Device Task Bar

Click here to enable System Alarms

Click here to add a Sensor Alarm

Edit System Alarms window

- a. Select any System Alarms you want to enable.
- b. Define the action taken when an Alarm Condition is tripped. The default is to send e-mail to the e-mail address used in your registration.

NOTE: If any System Alarm trips, all other System Alarms are automatically disabled. After you resolve the problem, you must re-enable any System Alarms that you wish to have enabled.

d. Click **Save** when done.

Add Sensor Alarm window

- a. Select the sensor and define the condition that will trigger an alarm.
- b. Define the action taken when an Alarm Condition is tripped. The default is to send e-mail to the e-mail address used in your registration.

Samples - the number of successive positive readings required for the alarm to be tripped.

Actions - By default an e-mail is sent to the address associated with your account. You can change this action or add additional ones. There must be at least one action configured for each alarm.

c. Click here to add a new action if desired

d. Click **Save** when done.



Viewing Device Information

Device Status Panels

Click here to show additional info on each sensor (label, serial #, product code)

Click here to Logout of HOBOLink

The Conditions that appear here depend on the sensors you have connected.

Devices | Data Files | Settings | Support | Logged in as [user] | Logout

Latest Conditions

Temperature: 22.609 °C

RH: 49.4 %

Dew Point: 11.691 °C

Battery: 4.32 V

u30

Past Day | Past Week | Past Month

Click here to change time frame for a plot

Latest Connections

Next connection expected in 7 minutes

Today at 14:47 EDT

Today at 14:37 EDT

Today at 14:27 EDT

Today at 14:17 EDT

Today at 14:07 EDT

Full Log

Click to view Connections Log

Latest Data

- Reconfigured and Reset_3.dtf
- Reconfigured and Reset_2.dtf
- Reconfigured and Reset_1.dtf
- Tim's Brand New Pipeline_1.dtf
- August 14th_10.dtf

All Data

Click to view Data Files window

Device Information

Status: Logging, Relay Deactivated (Open)

Nickname: u30

Serial Number: 1156297

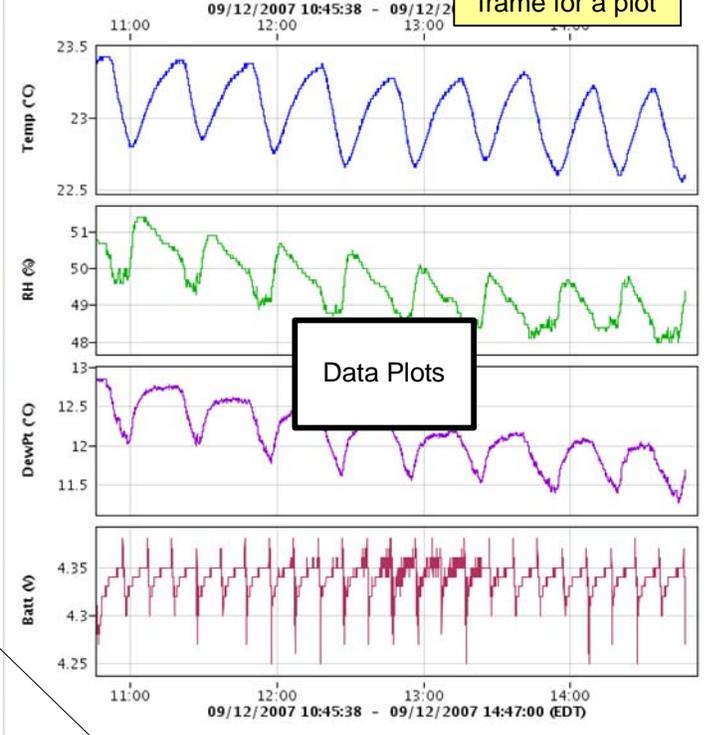
Model: HOBO U30 Station

Firmware Version: v0.920

Device Task Bar

Click icons to go to Configuration panels or Alarm Window

Device Configuration | Launch Configuration | Readout Configuration | Go to Alarms



Data Plots



Click the arrow icon at the top right of a panel to expand/collapse panel

Viewing Alarms

Alarms for U30

Tripped alarms appear here

Click here to view Alarm Log for this device

Click here to select alarms

Click here to send selected alarms to the Alarm Log

Click here to delete selected alarm(s)

Click here to filter Sensor Alarms shown

Enabled System Alarms appear here

Click on sensor alarm name to view/edit alarm

System Alarms

Condition	Status
Battery Low	
Memory Low	
Sensor Failure	

Edit System Alarms

Sensor Alarms

Viewing: All

Measurement	Sensor Label	Condition	Status
Temperature	room 1 temp	above 40.000 °F	
RH	room 1 RH	above 50.000 %	
Solar Radiation	sol...		

+ Add a Sensor Alarm

ng 1 - 3 of 3

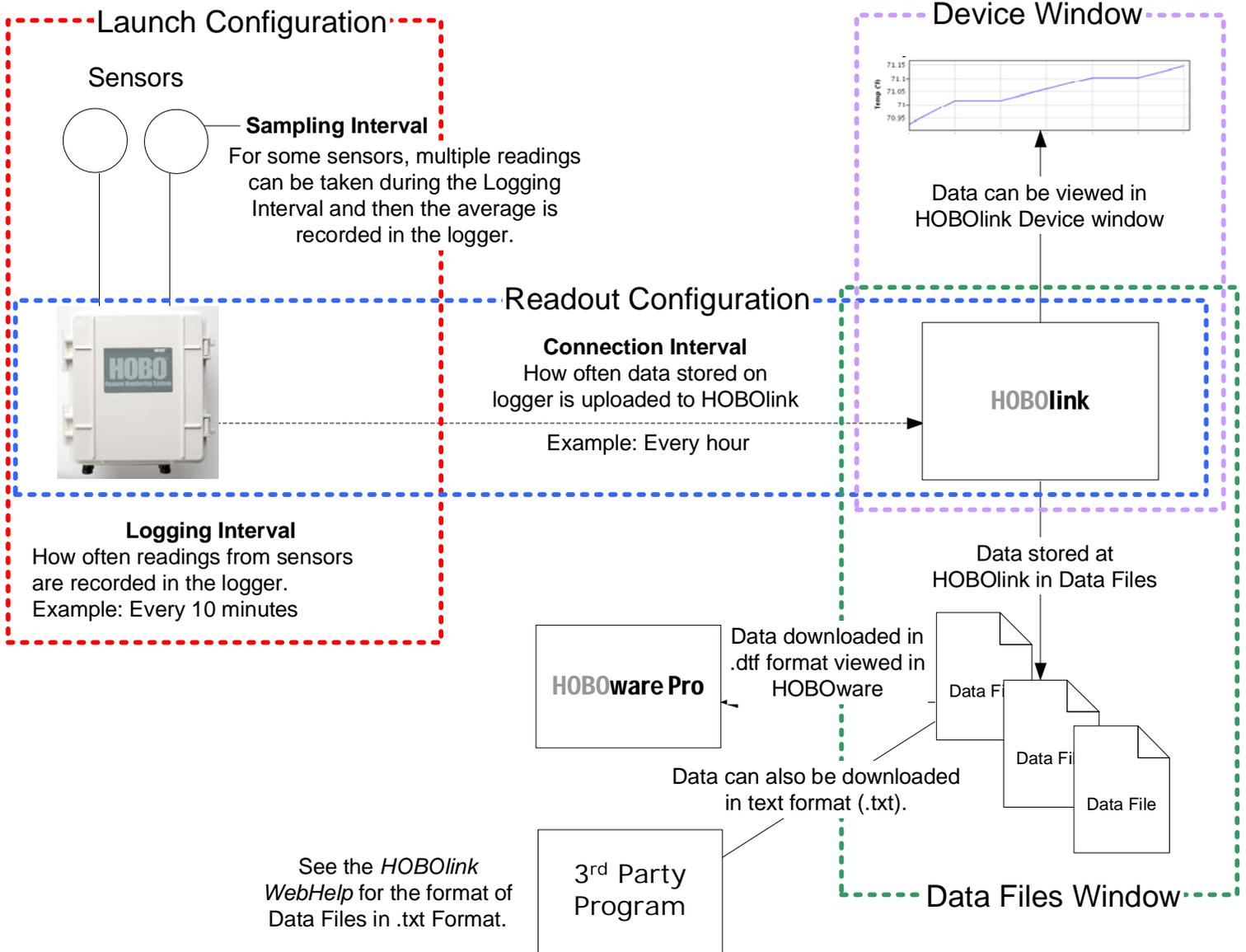
Alarm Color Indications

Alarm Status Icons

This applies to alarm icons in the Alarm Window only. For alarm icon indications in the Devices window or Device window, see the HOBOLink WebHelp.

- Red: Alarm is Tripped
- Green: Alarm is Active (an alarm has been defined, but has not been tripped)
- Yellow: this device has alarm changes pending.
- Grey: Alarm is Inactive
There is no sensor attached corresponding to this alarm. Reconnect the sensor or delete the alarm by clicking the delete icon (X) to the right of the Status icon.

Managing Data on the U30



Downloading and Viewing Data Files

At each readout interval, the logger sends its new data to HOBOLink. You can download Data Files as .dtf to open in HOBOWare Pro or as .txt to open in another program.

Download Files in HOBOLink

The screenshot shows the 'Data Files' window in HOBOLink. The interface includes a menu bar with 'Devices', 'Data Files', 'Settings', and 'Support'. Below the menu is a search bar and a table of data files. The table has columns for 'File Name', 'Device', and 'Started'. The files listed are U30LaunchDescription15_7.txt, U30LaunchDescription15_7.dtf, U30LaunchDescription15_6.txt, U30LaunchDescription15_6.dtf, U30LaunchDescription15_5.txt, and U30LaunchDescription15_5.dtf. Orange dots are visible next to the .dtf files. Callouts provide instructions on how to interact with these files.

To access the Data Files window, click on Data Files on the Main Menu

To download a single file click on the file name

To download multiple files in a zip file, select the files and click here

Data Files are downloaded to the location as configured for your browser.

To perform an action on multiple files, select the files by checking the boxes next to the file name here

Text files can be opened in 3rd Party programs.

You must enable *Save Data as Text File* in the **Readout Configuration Panel to generate text files.**

See the *HOBOLink WebHelp* for the text file format.

Orange dot indicates files that have not been downloaded or the file has new data since it was last downloaded

When you download a dtf file and select *Open*, it will automatically open in HOBOWare Pro.

View Files in HOBOWare Pro

The screenshots show the HOBOWare Pro interface. The first screenshot shows the 'File' menu with 'Open DataFile...' selected. The second screenshot shows the 'Plot Setup' dialog box with various measurement and event options. The third screenshot shows a data plot titled 'Post-Weekend Launch' with three data series: Temp, RH, and Batt.

If you saved a .dtf file in HOBOLink, in HOBOWare Pro go to File > Open Data File

Set Plot Options in Plot Setup dialog

Click Plot

View Plot

See the HOBOLink WebHelp for information on the effect of Time Zone change on time shown in data files

Go to the next page, "HOBOLink Map", to see all of the windows and panels in HOBOLink and their relation to one another.

HOBOLink Map



HOBOLink Map

The following diagram shows all of the HOBOLink windows and panels and their relationship to one another.

Create Account Window



Log in Window



Register Device Window



Devices Window (Main)



Device Window



Data Files Window



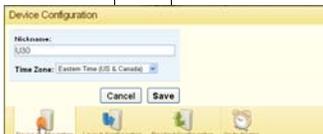
Settings Window



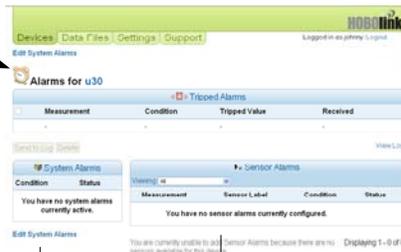
Support Window



Device Configuration Panel



Alarms Window



Launch Configuration Panel



Edit System Alarms Window



Add Sensor Alarms Window



Readout Configuration Panel



See the HOBOLink WebHelp for more detailed information on HOBOLink.