



## RHT20 Software Help Guide



# Software Introduction

The RHT20 USB software is a program for downloading stored data from the RHT20 when it is connected to a computer. The data may be displayed graphically or as a list and can also be opened in Excel or similar programs. The major functions are all listed in the main window.

The RHT20 maximum storage capability is 16350 data points.

## System Required:

Windows 7, Windows 8.1, Windows 10

## Minimum Hardware Required:

- PC with 1GHz or faster 32-bit (x86) or 64-bit (x64) processor
- 1GB RAM for (32-bit) OS or 2GB RAM for (64-bit) OS
- At least 100 MB hard disk space for the supplied software
- DirectX 9 graphics device with WDDM 1.0 or higher driver
- 800 x 600 display resolution

# Software Installation Procedure

Download the latest software from **Extech.com/Software** and Unzip the file.  
Run ExtechInstaller.exe and the following screen will appear.

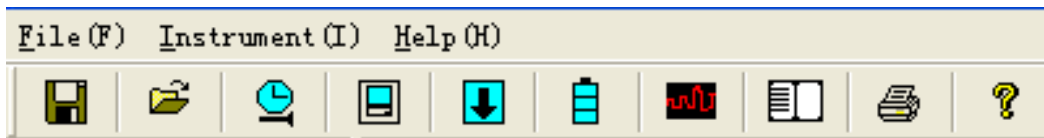
The Software load window will open.



Click on the **Software** button and follow the prompts to install the software.

Click on the **Drivers** button and follow the prompts to install the USB driver.

# Main Menu



**Save** - Save the recorded data to the disk.



**Open** - Open a saved file.



**Clock** – Set time and date to PC time and date



**Setup** –Set sample rate, Alarms, Temperature units, Overwrite and Start modes and Clear data memory



**Download** – Download Get Data from the DATA LOGGER.



**Battery** – Battery power status



**Show Graph**-Show the recorded or saved data as a graph.



**Show List**- Show the recorded or saved data as a list.




**Print**- Print the graph or the list.

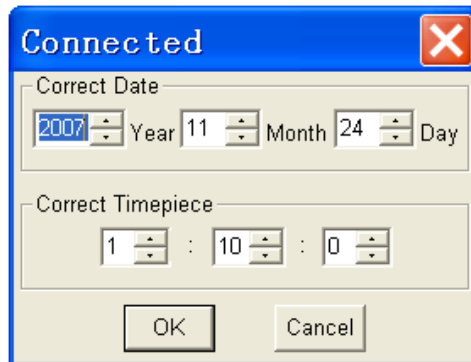


**Help document**

# Operation

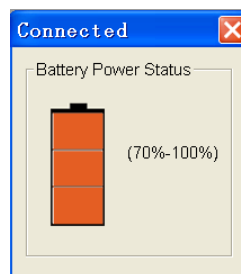
## Time and Date

Click the icon  to open the Time Dialog box to set the time and date.




## Get battery power status

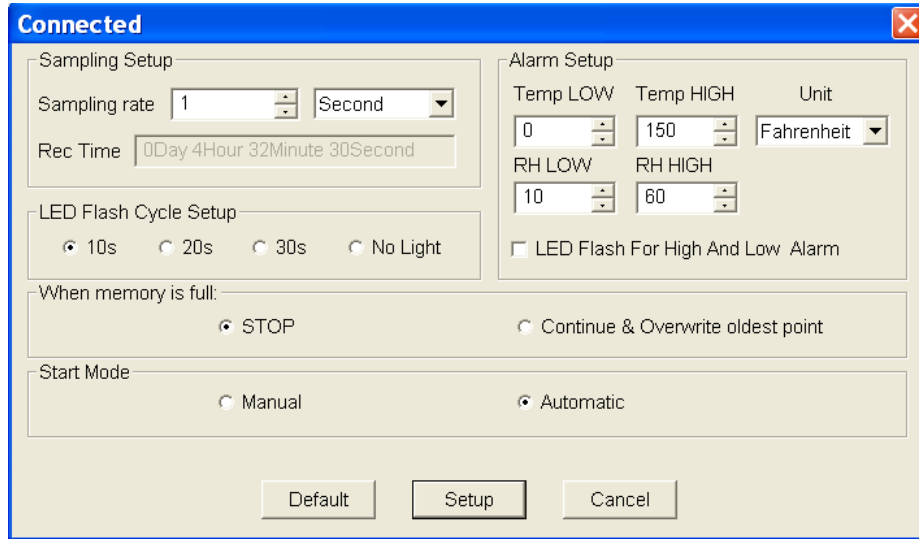
Click the  icon to open the Battery power status dialog box.



Note: Always check the battery status before long datalogging sessions. If the battery life is in doubt, install a fresh battery before logging critical data

## Datalogger Setup

Click on the icon  to open the Setup window.



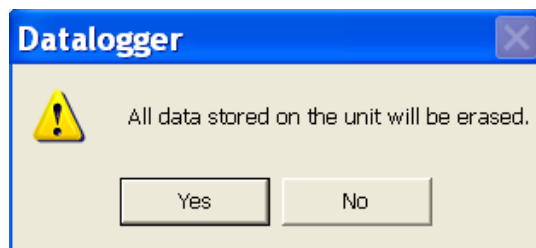
The "Connected" setup window contains the following fields and controls:

- Sampling Setup:** Sampling rate (1) and unit (Second). Rec Time (0Day 4Hour 32Minute 30Second).
- LED Flash Cycle Setup:** Radio buttons for 10s, 20s, 30s, and No Light.
- When memory is full:** Radio buttons for STOP and Continue & Overwrite oldest point.
- Start Mode:** Radio buttons for Manual and Automatic.
- Alarm Setup:** Temp LOW (0), Temp HIGH (150), Unit (Fahrenheit), RH LOW (10), RH HIGH (60). A checkbox for LED Flash For High And Low Alarm.

Buttons at the bottom: Default, Setup, Cancel.


- **Sampling Setup field:** Sets the sampling rate of the datalogger. The Rec Time box shows how long it will take to fill the memory at the selected sample rate.
- **LED Flash Cycle Setup field:** Sets the REC LED flash rate. Select “No Light” to conserve battery life.
- **Alarm Setup field:** Set the Low and High Temperature alarms. Set the Low and High RH alarms. Set the temperature units and turn the ALM LED on or off.
- **When memory is full field:** Set the datalogger to stop when the memory is full or to continue recording by overwriting the oldest data.
- **Start Mode field:** The Manual and Automatic select buttons allow the datalogging to start immediately when the Setup window is exited (Automatic) or at a later time by pressing any button on the datalogger (Manual).

Click “**Setup**” to send the setup to the datalogger and to exit the Setup window. A caution box will appear as a reminder that all the existing data in the datalogger will be erased. Click “**No**” to return and save the data or “**Yes**” to proceed with the setup.



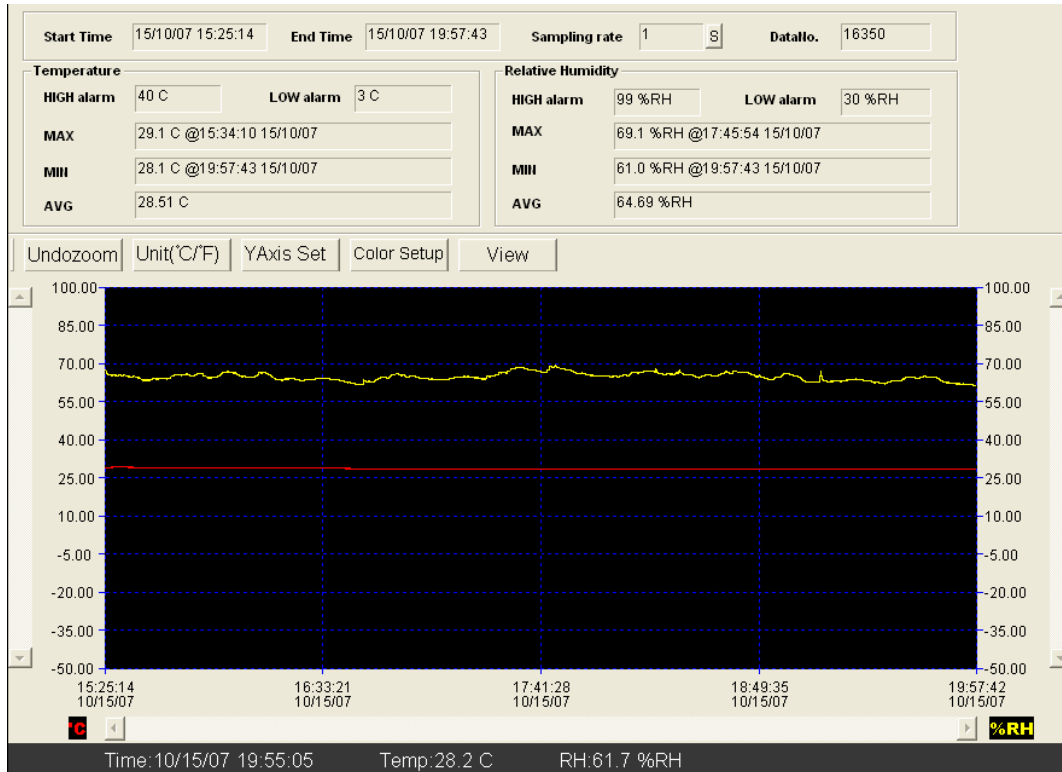
## Datalogger Download

To transfer the readings stored in the Logger to the PC:

1. Connect the DATA LOGGER to the same USB port used when the DATALOGGER was initialized.
2. Open the Datalogger software program if it is not still running
3. Click the Download icon .
4. The Window shown below will appear. Click DOWNLOAD to begin transferring readings.



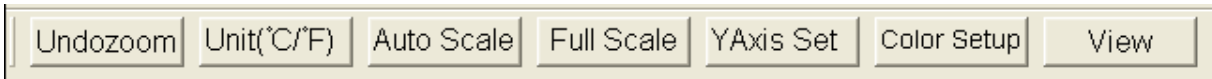
If readings are successfully transferred the Data graph window will appear.



- The top field shows detail information of the readings (Time, Sampling rate, data numbers, HIGH alarm, LOW alarm, Max data, Min data and Avg data),
- The bar at the bottom of the screen will display the Time, Temperature and RH at the cursor location.
- The Temperature scale is on the left of the graph; the RH scale is on the right.

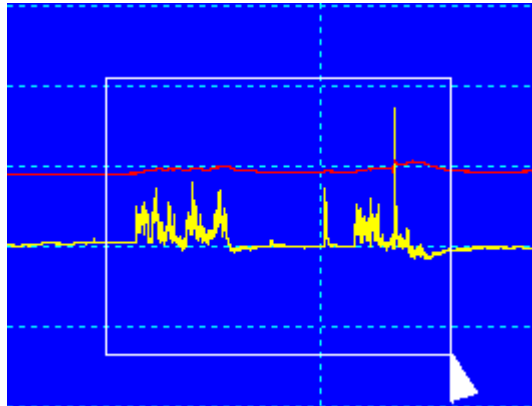
**NOTE:** The logger needs to be re-set **using** the software to begin a new recording session.

## Graph menu:



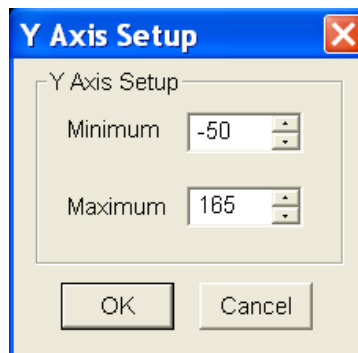
### Zoom in:

1. Press the left mouse button and drag a rectangle around the area to be expanded.
2. Release the mouse button.
3. Use the horizontal scrollbar to scroll through all the data.  
Use the left vertical scrollbar to scroll through the temperature data.  
Use the right vertical scrollbar to scroll through the relative humidity data.



**Undozoom** : Click to return to full view.

**YAxis Set** : Setup the Maximum and Minimum Y Axis values.



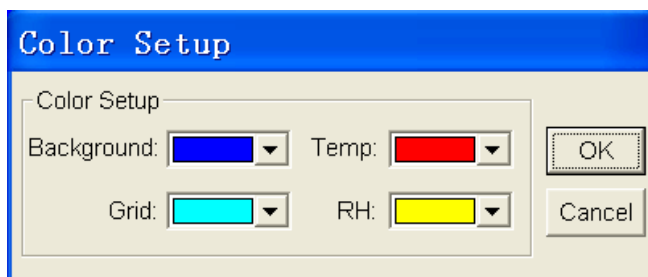
**Full Scale** : Set the scale to the Max and Min value

**Auto Scale** : Set the scale to on-screen values



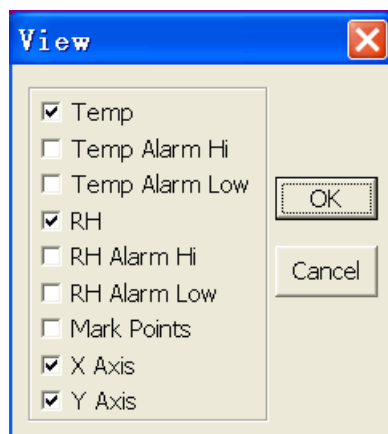
## Color Setup

Setup the Background, Grid, Temp and RH color.




## View

: Set the parameters and Axis to be displayed



## List Display:


Click the list icon  to get the list the data in a window.

No.	Time	(%RH) Humidity	(C) Temperature	(F) Temperature
1	10/15/07 15:25:14	67.2	28.9 C	84.0 F
2	10/15/07 15:25:15	67.2	28.9 C	84.0 F
3	10/15/07 15:25:16	67.2	28.9 C	84.0 F
4	10/15/07 15:25:17	67.2	28.9 C	84.0 F
5	10/15/07 15:25:18	67.2	28.9 C	84.0 F
6	10/15/07 15:25:19	67.2	28.9 C	84.0 F
7	10/15/07 15:25:20	67.3	28.9 C	84.0 F
8	10/15/07 15:25:21	67.4	28.9 C	84.0 F
9	10/15/07 15:25:22	67.5	28.9 C	84.0 F
10	10/15/07 15:25:23	67.5	28.9 C	84.0 F
11	10/15/07 15:25:24	67.5	28.9 C	84.0 F
12	10/15/07 15:25:25	67.5	28.9 C	84.0 F
13	10/15/07 15:25:26	67.5	28.9 C	84.0 F
14	10/15/07 15:25:27	67.5	28.9 C	84.0 F
15	10/15/07 15:25:28	67.5	28.9 C	84.0 F
16	10/15/07 15:25:29	67.5	28.9 C	84.0 F



## File save and open



1. Click the  icon to open the file save dialog box.



2. Name the file and save it with the default extension. The file will be saved with the “.record” extension to be reopened in the Datalogger software program and also as a “.xls” file to be opened in spreadsheet program or other word processing program.
3. Click the  icon to open an existing data file for viewing on the data graph window,. When prompted, select a .record file saved earlier.

## Print graph or list

Click the icon  to show the data as a graph, then click  to print the graph.

Click the icon  to show the data as a list, then click  to print the list.

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