

User's Guide



OM-70 SERIES Data Logger Interface Software


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Quick Start


Follow the procedure below to quickly start using your logging device:

1. Connect the data logger to a free USB port on your computer.
2. Start the Interface Software on your PC.
3. From the **Logger** menu, select **Setup**.
4. Select the "Logging starts immediately when setup is complete" option.
5. Click **Continue** to start logging.

After the **Continue** button is pressed, the device will start logging. You can click on the  icon on the toolbar to download and view the logged data.

Connecting the Logger to Your PC

To connect the logger to your computer, follow these steps:


1. Connect the USB cable to the logger and to a free USB port on your computer.
2. If you are connecting the logger to the PC for the first time, the logger will automatically be recognized and installed on your computer.
3. Start the Interface Program and click on the  icon on the toolbar.

The logger status screen should now be displayed.

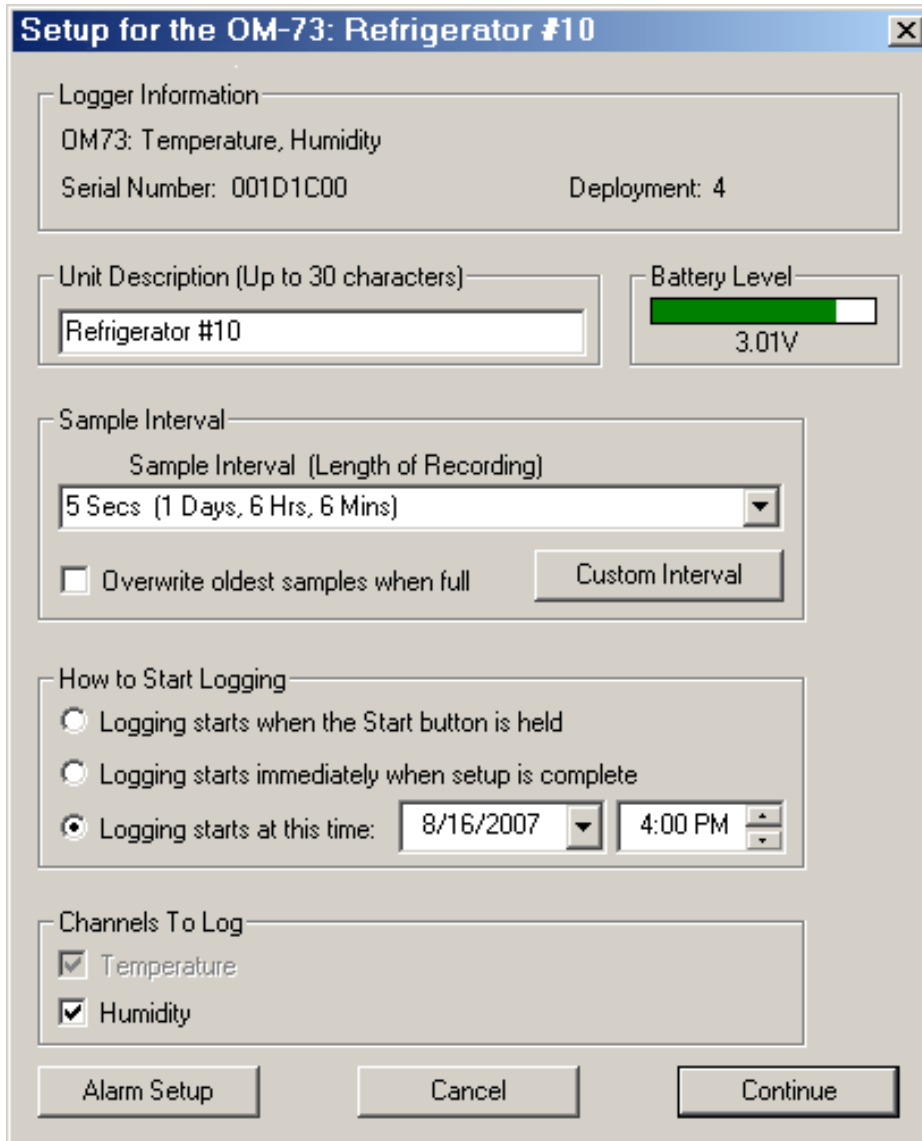
Note: The Windows operating system can not handle USB devices being unplugged and plugged back too fast. When unplugging the logger, wait for about 5 seconds before plugging it in again. If you unplug and plug back a device too quickly, the computer may stop recognizing any USB devices on that port. If this happens you will have to restart the computer. This is a Windows USB problem and is not related to the Interface Software.

If more than one logger is connected to your computer at the same time, the program will ask you to select one of the loggers. To select a logger click on one of the loggers on the list, and click the **Connect** button.

Setting Up the Logger To Record Data

To set your logger to start recording data, click the  button on the toolbar, or select **Setup** from the **Logger** menu. To avoid accidentally erasing the logged data, the logger can not be setup to log while it is logging.

The setup options window is shown below.

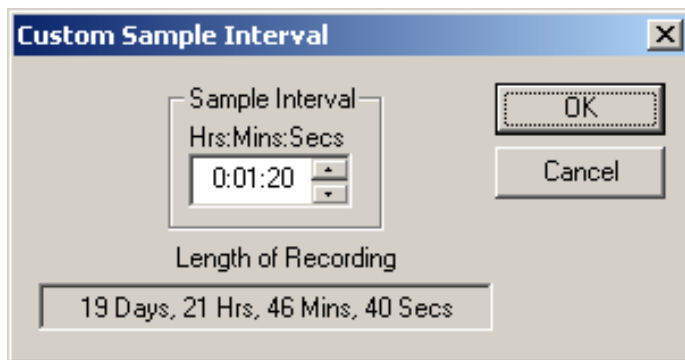


- **Logger Information:** Gives information about the logger. The type of logger, the internal serial number and the deployment (how many times the logger was setup to log) are given. You can not change this information.
- **Unit Description:** This field is used to identify the logger to the user. You can enter any text you want here such as descriptive location, serial number, etc.
- **Sample Interval (Length of Recording):** Select the sample interval from a predefined list of intervals.
- **Custom Interval:** If the interval you want is not on the list, you can set a custom interval using this button.
- **Overwrite oldest samples when full:** Check this box to have the logger continuously record data, overwriting oldest recorded data. When this box is not checked, logging is stopped when the logger memory becomes full.
- **How to Start Logging:** Logging can start in three ways depending on the selection you make:
- **Logging starts when the Start button is pushed:** Logging will start when the **Start** button is pushed for about 3 seconds.
- **Logging starts immediately when setup is complete:** Logging will start immediately once the **Continue** button is clicked.
- **Logging starts at this time:** Logging will start at the user specified time. There is no limit how far in the future you can set the logging to start.

- **Channels to Log:** This option only appears if the device has more than one channel. You can elect to disable unused logger channels. When a channel is disabled, its memory is allocated to the other channels, increasing the total logging time. The total logging time will be reflected in the **Sample Interval** window. Depending on the logger, some channels are required and cannot be disabled. Channels that can not be disabled are grayed out and can not be unchecked. For instance, in the picture above, the Temperature channel is required to record Relative Humidity, so the Temperature channel cannot be disabled. At least one channel must be enabled for logging.
- **Alarm Setup:** Click this button to open the Alarm Setup Window.

Custom Interval Setup

Commonly used intervals are predefined in the **Sample Interval** box in the Logger Setup screen. A custom interval can also be defined by the user. To do this, click on the **Custom Interval** button in the Logger Setup screen. The custom interval window is shown below. You can select a custom logging interval using this window.

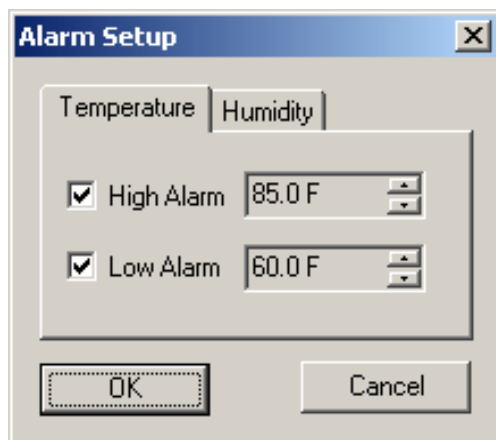


In the window above, the sampling interval was set to 1 minute, 20 seconds, to allow about 20 days of recording.

Alarm Setup


Alarms are used to indicate if the data inside the logger exceeded a user specified threshold. This can be an indication that an important event has occurred. The logger will indicate that an alarm condition has occurred by displaying the Alarm icon. Once an alarm condition has occurred, the alarm icon will remain turned On for the duration of the logging session to indicated that data stored in the device memory has alarms in it.

To get to the *Alarm Setup* window, click the **Alarm Setup** button in the Logger Setup screen. The *Alarm Setup* windows allows you to set high and/or low alarm thresholds for each data channel, or disable these alarms. Alarms are set by entering the thresholds as shown in the window below.

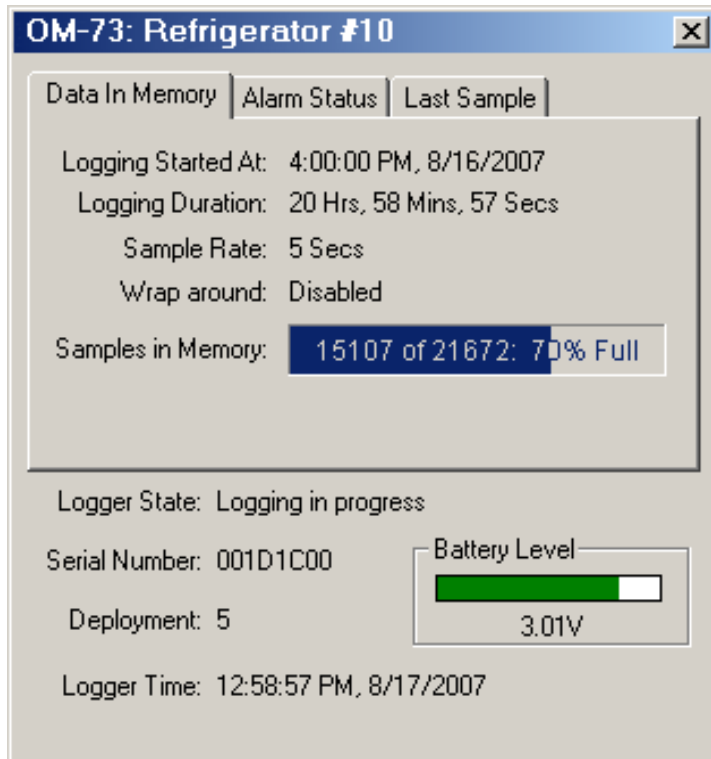


The checkbox to the left of the low/high alarms enables the alarm when checked, and disables the alarm when clear.

Using the Software to Check Logger Status

Selecting **Status** from the **Logger** menu brings up the *Logger Status* window. You can also bring up the status window by pressing the  button on the toolbar. The logger status screen is separated into three panes:

General Logger Status and Data In Memory Pane

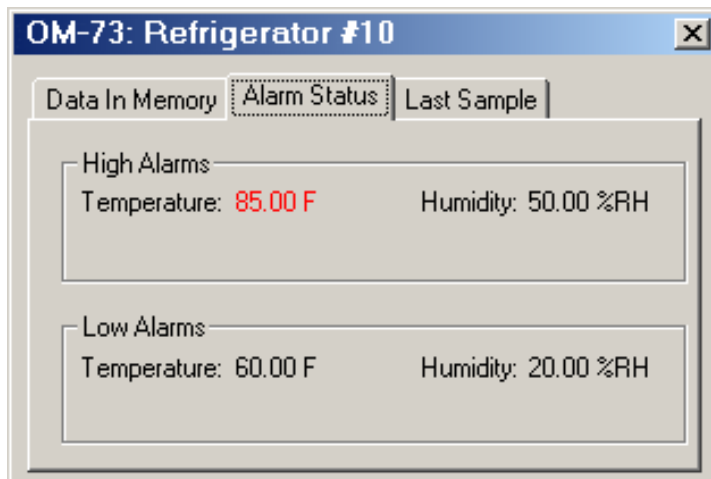


Logger State shows the internal state of the logger:

- **Power Save Mode:** This mode is entered when the logger idle (not logging and not setup to log) for about 1 hour. The logger uses very little power in this mode and the battery can last for up to 10 years. The logger's real time clock is not running in this mode.
- **Idle, waiting for setup:** The logger is not logging. It is waiting for a setup from the user. The logger's real time clock is active in this mode.
- **Logging will start on button press:** Logging has been configured to start when the logger's **Start** button is pressed.
- **Logging will start at xxxx:** Delayed logging. Logging will start at the time specified.
- **Logging in Progress:** The logger is currently logging data.
- **Serial Number:** This internal serial number is unique for each logger.
- **Deployment:** Indicates the number of times the logger has been setup to log.
- **Logger Time:** Shows the internal logger date and time. Depending on how the time was entered, this may be different from the Windows clock.
- **Battery Level:** Shows the current level of the logger's battery. It is recommended that the battery is replaced when this indicator reaches yellow. When this indicator reaches red, logging becomes unreliable, and the battery should be replaced before starting a new logging session.

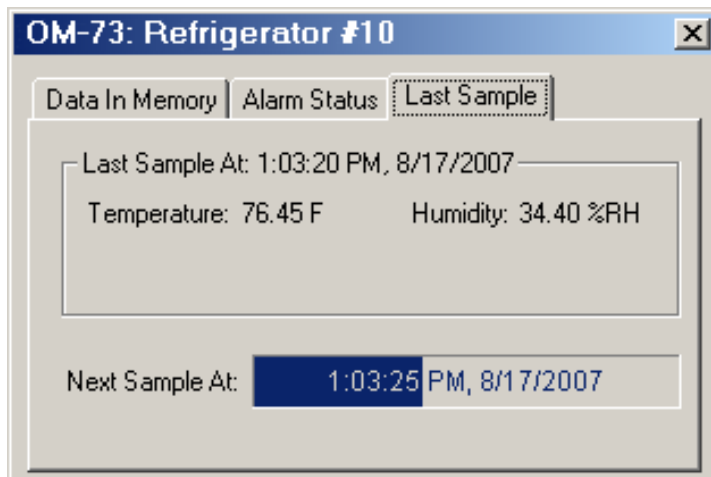
- **Logging Started At:** Shows when logging was started.
- **Logging Duration:** Shows how long the logging session has been active.
- **Sample Rate** shows how often the logger is recording the data.
- **Wrap around** shows how many times the sample memory wrapped around after becoming full.
- **Samples in Memory:** Shows information on how many samples are currently stored in the logger memory, and how much space remains free. Note that if data wrap around occurs, this value will always be 100%.

Alarm Status Pane



The *Alarm Status* pane displays the alarm thresholds for the active channels. If a high alarm occurred the threshold is displayed in red. If a low alarm occurred, the threshold is displayed in blue.

Last Sample Pane



The *Last Sample* pane shows the value of the last sample taken, for all the active channels. It also shows when the next sample will be taken.


Ending the Logging Session

There are a number of ways that the logging session can end:

1. When the logger memory becomes full, and data rollover was not selected during logger setup, the logger will automatically stop logging and enter the idle state.
2. Selecting **End Logging** from the **Logger** menu.
3. Logging will stop automatically if the logger detects a low battery condition.
4. If the battery is removed from the logger, logging will stop. No data will be lost.

Once logging has ended, it cannot be resumed without erasing the logged samples stored in the logger memory.

Loading Logger Data


To get the sampled data from your logger, connect the logger to your computer and click the  button on the toolbar. Once the data is transferred from the logger to your PC, the data graph and data listing windows will be displayed.

The graph display will be blank if there are less than two data points logged. The listing window will be blank if there are no data points logged (as can happen during delayed logging, or when logging is set to start on button press).

Automatic Data Retrieval

The Interface Software can be setup to automatically load the data from the logger into the computer as samples become available. In this mode the graph and the listing windows will be updated automatically with the new data.

This is how to enable the automatic data retrieval:

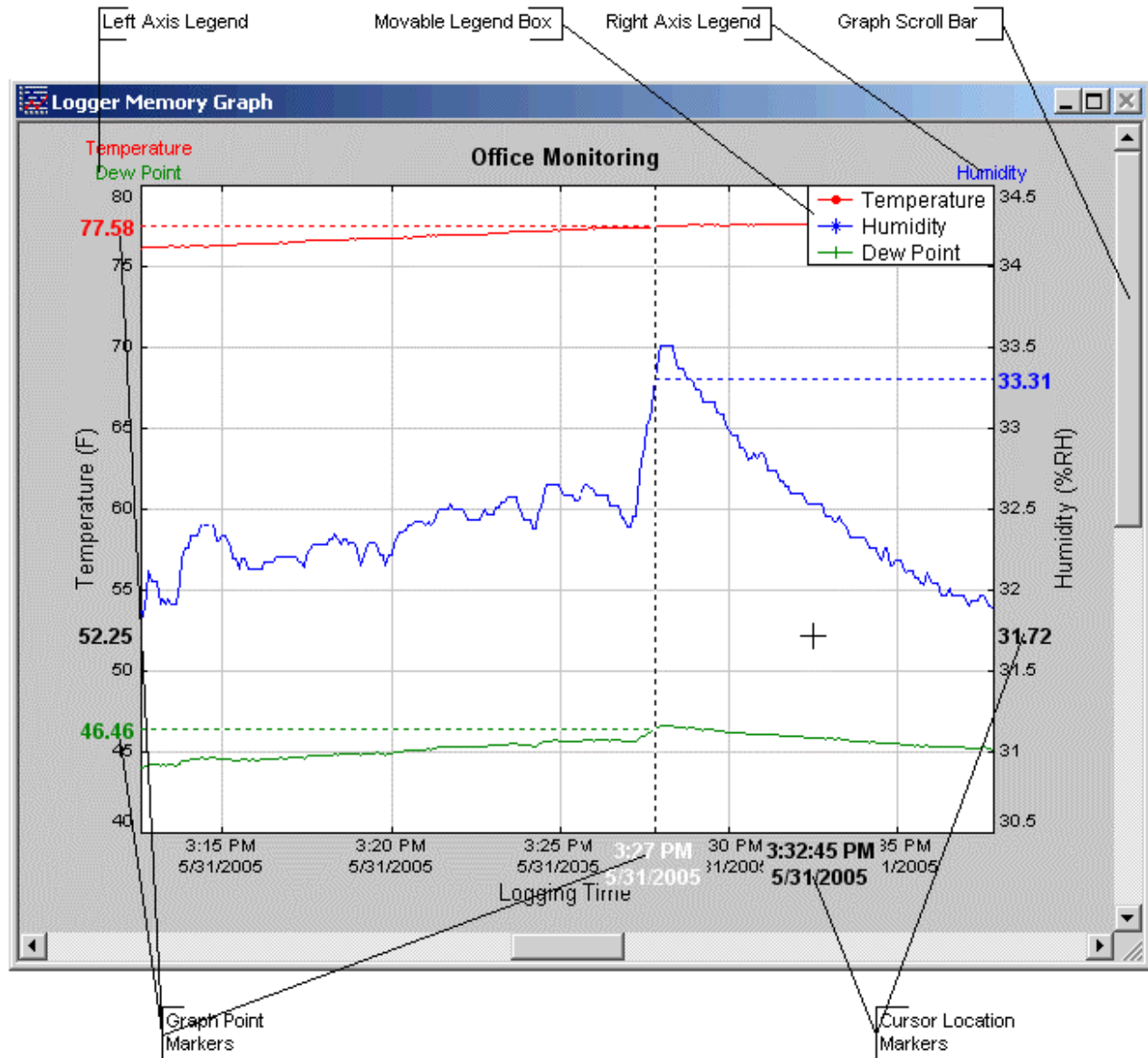
- Make sure that the logging device is connected to your computer.
- Make sure that the device is logging data. Automatic retrieval is not available when the logger is not logging.
- Manually download the data for the first time by clicking the  button on the toolbar, or select **Get Data** from the **Logger** menu.
- From the **Logger** menu select **Auto Data Load**.


The computer will download data when new data is logged by the device. For instance, if you set your device to collect data once every minute, the software will perform a download once a minute. Of course the device has to be connected to your computer while the *Auto Data Load* mode is active.


When the *Auto Data Load* mode is active, the software does not change the zoom level of your graph. Instead it scrolls the graph as new data becomes available.







Working the Data Graph

Clicking anywhere within the graph window activates the graph toolbar buttons and the graph window features.





- The graph plots each data channel using a different color and dot style. A small rectangular legend shows the color and the dot style of each channel. This legend can be moved by clicking the left mouse button while inside the legend and dragging the legend to where you want it to be. The legend can be turned ON and OFF by pressing the  button on the toolbar.
- There is an additional legend above each of the Y axis. This legend is the channel name drawn in the same color as the channel line on the graph. This legend helps identify which channel belongs to which axis. For instance, in the graph above, the **Temperature** in red and **Dew Point** in green correspond to the left Y axis, the **Relative Humidity** in blue corresponds to the right Y axis.
- The Cursor Location Markers show the cursor position on the graph. The position is shown on each of the axis in a

slightly larger, bold text. The position indicators can be turned ON and OFF by pressing the  button on the toolbar

- Clicking the  button activates the sample marker function. When this function is active, clicking a point on the graph, marks this point, and shows the point values for all channels, at the specified time. An example of sample markers is shown above.
- During zoom mode, you can use the vertical and horizontal scroll bars to move the graph around.
- Clicking the  button activates the zoom mode. To zoom to an area, click the left mouse button at one corner and drag the mouse, while holding down the button, to the opposite corner. Releasing the button will activate the zoom. Clicking the right mouse button unzooms the graph one level. See *Using the Zoom Feature* section for more details.
- The  button turns ON and OFF the marks at the data points.
- The  button connects the sample points with a line.
- The  button turns the grid lines ON and OFF.
- The  button on the toolbar causes the graph to unzoom to the full scale of the recorded data. This means that the minimum and maximum scale will be about equivalent to the minimum and the maximum of the data.

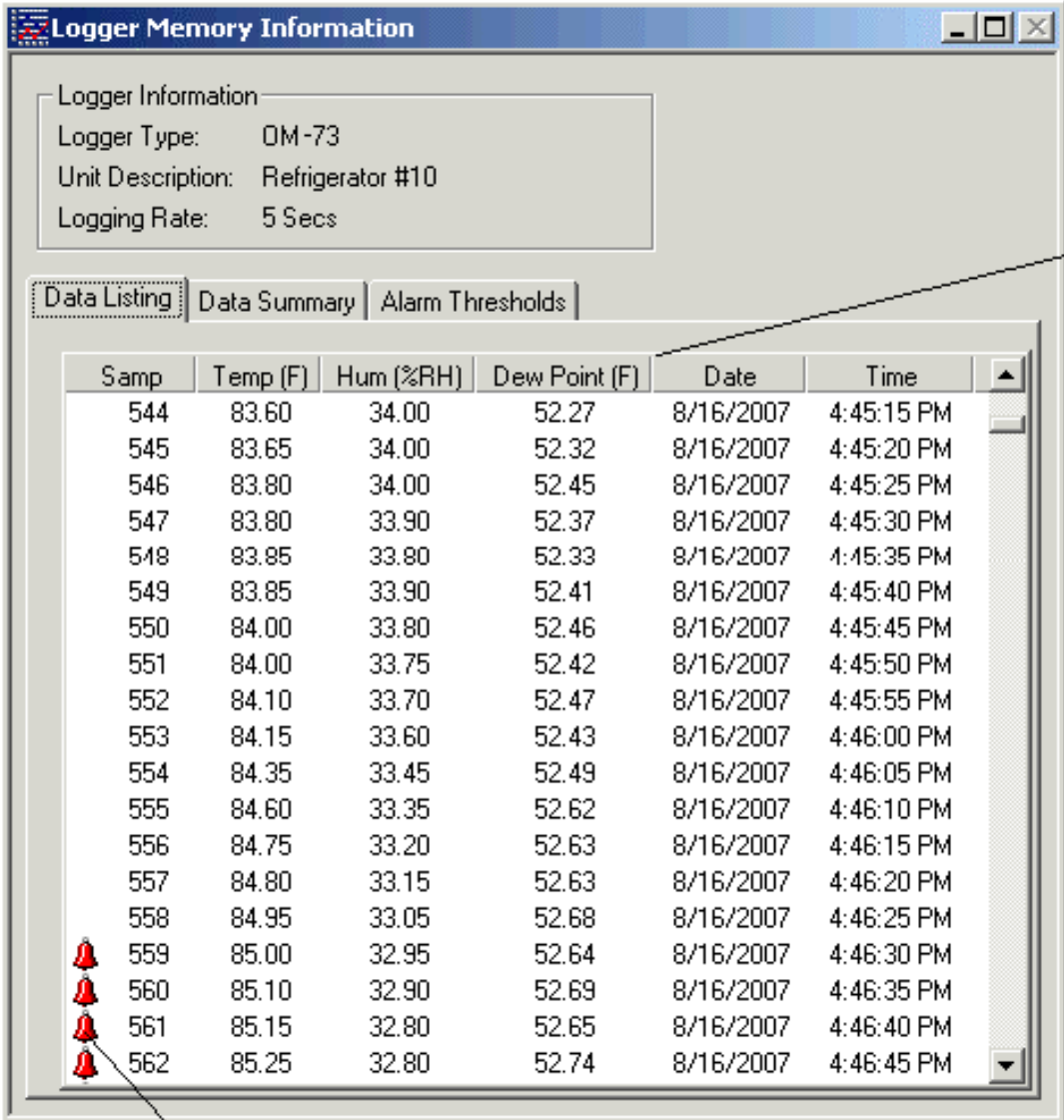
Using the Zoom Feature

There are a number of ways to zoom to the data you would like to see on the screen. To activate the graphic zoom, click the  button on the toolbar. The graphics window has to be selected for this button to be active.

- **Graphic Zoom:** You can graphically zoom on the portion of the data that is displayed on the screen by pressing the left mouse button and dragging the box around the part of the graph you would like to zoom to. You can repeat this until the graph is zoomed to just a few points. Pressing the right mouse button reverses the graphic zoom (causes unzoom).
- **Unzoom:** Pressing the left mouse button, then releasing it without dragging the mouse causes the graph to unzoom (zoom out). Pressing the right mouse button reverses this zoom.
- The  button on the toolbar causes the graph to unzoom to the full scale of the data. This means that the minimum and maximum scale will be about equivalent to the minimum and the maximum of the data.
- **Autoscaling a specific axis:** You can also autoscale the time or one of the data axes only, without affecting the other axes. To autoscale the time axis only, choose **Time -> Auto Scale** from the **Zoom** menu. To autoscale one of the data axis only, choose **Auto Scale** for the appropriate channel from the **Zoom** menu.
- **Numerical Zoom:** Another way to specify the zoom is to enter the minimum and maximum limits of the graph numerically. You can do this individually for the time axis and for each of the data axis. To do this, select **Custom** for the appropriate axis from the **Zoom** menu, and enter the minimum and maximum limits for the axis.

Data Listing Window

The data listing window is shown below.







Logger Memory Information

Logger Information

Logger Type: OM-73
 Unit Description: Refrigerator #10
 Logging Rate: 5 Secs

Data Listing | Data Summary | Alarm Thresholds


Samp	Temp (F)	Hum (%RH)	Dew Point (F)	Date	Time
544	83.60	34.00	52.27	8/16/2007	4:45:15 PM
545	83.65	34.00	52.32	8/16/2007	4:45:20 PM
546	83.80	34.00	52.45	8/16/2007	4:45:25 PM
547	83.80	33.90	52.37	8/16/2007	4:45:30 PM
548	83.85	33.80	52.33	8/16/2007	4:45:35 PM
549	83.85	33.90	52.41	8/16/2007	4:45:40 PM
550	84.00	33.80	52.46	8/16/2007	4:45:45 PM
551	84.00	33.75	52.42	8/16/2007	4:45:50 PM
552	84.10	33.70	52.47	8/16/2007	4:45:55 PM
553	84.15	33.60	52.43	8/16/2007	4:46:00 PM
554	84.35	33.45	52.49	8/16/2007	4:46:05 PM
555	84.60	33.35	52.62	8/16/2007	4:46:10 PM
556	84.75	33.20	52.63	8/16/2007	4:46:15 PM
557	84.80	33.15	52.63	8/16/2007	4:46:20 PM
558	84.95	33.05	52.68	8/16/2007	4:46:25 PM
 559	85.00	32.95	52.64	8/16/2007	4:46:30 PM
 560	85.10	32.90	52.69	8/16/2007	4:46:35 PM
 561	85.15	32.80	52.65	8/16/2007	4:46:40 PM
 562	85.25	32.80	52.74	8/16/2007	4:46:45 PM

Adjustable Column Width

Alarm Indicator

The Data pane lists the data samples collected by the logging device.

The column width of each column is adjustable by using the left mouse button and dragging the column to the desired width.

The  icon next to a data sample indicates an alarm condition. That is, one or more of the data channels are outside the minimum or maximum (alarm low and alarm high) thresholds.

Exporting Logger Data

You can use the Interface Software to export sample data to a text file or to a Microsoft Excel file.

- To export the data to a text file, select **Export -> Text File** from the **File** menu.
- To export the data to a Microsoft Excel file, select **Export -> Excel File** from the **File** menu.

The file exported to Microsoft Excel is an Excel .csv file. The easiest way to open this file in Excel is to just double click on the created file.

When you first open the .csv file in Excel, the *Date Time* column will be in a strange format. To convert to a normal time and date format follow these steps:

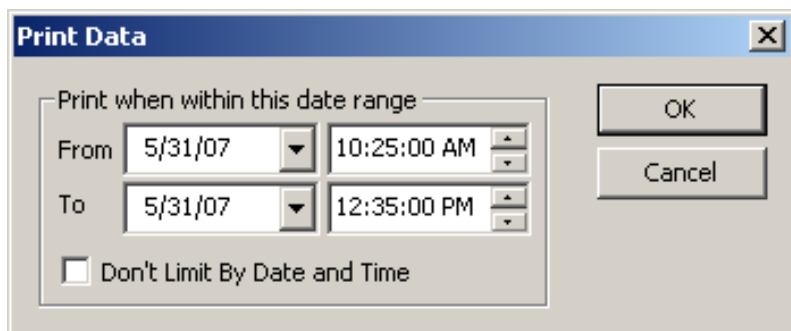
1. Select the entire *Date Time* column.
2. While the cursor is in the column, click the right mouse button and select **Format Cells**.
3. Under *Category*: select **Date** or **Time**, then choose the format that suits you in the *Type*: column.
4. Click **OK** when done.

Printing the Logger Data

The Interface Software can print the data graph and the data sample list. To print, select **Print** from the **File** menu. You can also view how your data will be printed using the **Print Preview** option from the **File** menu.

Graphs are printed as they appear on the screen. This includes the current zoom detail, marking of sample points, etc (see **Working with the Data Graph** for more detail).

For the sample listing printout, you have an option to limit the printing between specific date and time. When you select to print or print preview the sample listing, a date and time selection window will be displayed:



Only the data samples within the specified dates will be printed.

Calibrating the Logger

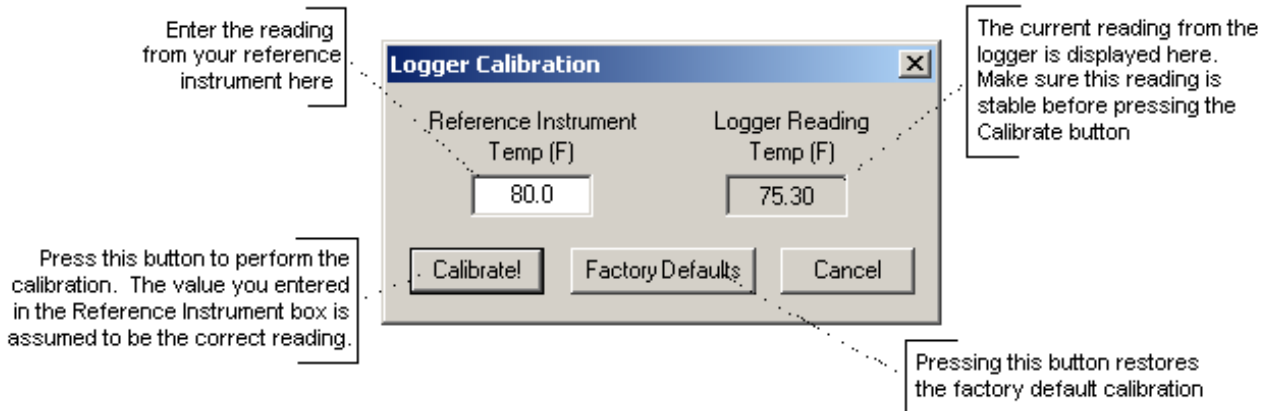
Your logger is factory calibrated to an accuracy given in the device specifications. However, there may be times when you wish to adjust the calibration of your logger. The Interface Software provides you with the ability to perform a single point offset calibration. This calibration can be used to increase the accuracy of your device for a restricted data range. For instance, if your application calls for logging temperature between 20°F and 32°F, you may want to calibrate your logger at 26°F.

Warning: *Calibrating the logger erases the data that is stored in logger memory.*

Calibration only can be performed when the device is not logging. To calibrate your logger, select **Calibrate...** from the **Logger** menu. For extra security, calibration is password protected. You must enter the correct password in the *Calibration Password* window before you're allowed to calibrate the unit. The logger has been preset at the factory with no password, so if this is the first time you are calibrating the device, leave the password field blank. The *Password Calibration* window also allows you to change the password.

Once the password is entered correctly, a window asking you to select the channel to calibrate pops up. Select the

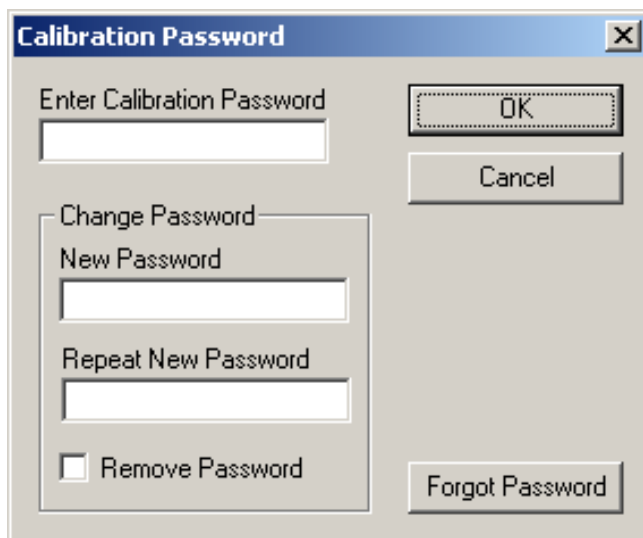
channel you would like to calibrate and click **OK**. Each channel must be calibrated separately.
 The *User Calibration* window for the channel you selected will appear:



To perform the calibration:

1. Select a stable and accurate reference instrument. It is best to use a reference instrument that has at least 2 to 4 times the accuracy of the logger you are calibrating. For instance, if the accuracy of the logger temperature is given as $\pm 1^\circ\text{F}$, the accuracy of your reference instrument should be at least $\pm 0.5^\circ\text{F}$ to $\pm 0.25^\circ\text{F}$.
2. Place the logger and the reference sensor in a stable environment. For temperature and humidity, it is best to place the logger and the reference sensor in a regulated chamber.
3. Wait for your reference instrument and the reading in the "Logger Reading" box to stabilize.
4. Enter the reading from your reference instrument in the "Reference Instrument" box, and hit the Calibrate! button.

Setting the Calibration Password



To change the calibration password select **Calibrate...** from the **Logger** menu. When the *Calibration Password* window is displayed, do the following::

- Enter the current calibration password in the "Enter Calibration Password" box. If you are setting the password for the first time, do not enter anything in this box since the logger is initialized with no password..
- Enter the new password in the "New Password" box.

- Enter the new password again in the “Repeat New Password” box.
- Click OK.

If a calibration password exists, you can remove it (restore factory default empty password) by checking “Remove Password”, however you have to enter the current calibration password in the “Enter Calibration Password” to do this.

Note: If you forgot the calibration password, the password can be removed by clicking the **Forgot Password** button. Resetting the password in this way will erase the logged data in logger memory and initialize the Deployment counter to 0.

Setting the Logger Clock

The logger has an internal clock that is updated every second. During logging, the time stamps of the data samples are set by this clock.

When the logger is in power down state, the real time clock is not running. When the real time clock is stopped, and you setup your logger to log, the Interface Software automatically matches the logger clock to your computer’s clock. You can also manually set the logger’s real time clock, using the Interface Software

To set the logger’s Real Time Clock, select **Set Clock...** from the **Logger** menu. Make sure that “Use Windows Clock” is unchecked, then enter the current date and time in the appropriate fields. If the “Use Windows Clock” is checked, the logger’s real time clock will be matched to your Windows clock.

Note: You cannot set the logger clock while logging is in progress.

Specifications

Common logger specifications are shown below. For specific logger specification, see the logger documentation.

PC Interface	USB port.
Sampling Interval	User selectable from 1 second to 18 hours, in 1 second increments.
Data Security	Unique logger serial number. Recording session counter. Password protected calibration.
Operating System Compatibility	Windows 2000, Windows XP, Windows Vista, and above. <u>Not compatible with Windows NT, Windows 95, Windows 98 or Windows ME</u>
System Requirements	800 x 600 screen resolution, 1 free USB port.
Recording Start	On button press, immediate after setup, or at a user specified date and time.
Recording Mode	Stop on memory full, or continuous recording with memory wrap around
Real Time Status	Software real time status.
User Calibration	Password protected calibration for each channel.
User Information	Up to 30 characters
Logger Channels	User selectable. Disabling channels increases the storage capacity of the other channels.
Units	US and Metric
Data Format	Exportable to text or Excel files.

OM-71, OM-72, OM-73 Family of Loggers

The OM-70 family of loggers comes in three different versions.

- OM-71 records temperature using an internal sensor. The unit can record up to 43,334 temperature values.
- OM-72 records temperature using an external sensor. The unit can record up to 43,334 temperature values.
- OM-73 records temperature and humidity values using an internal sensor. The unit can record up to 21,672 temperature and humidity values, or 43,334 temperature only values.

The loggers feature a display that allows the user to see the current reading and the reading values stored in the unit's memory. The display also shows the current date and time, the battery level, whether or not the device is collecting data and the alarm condition. The OM-73 display alternates between temperature and humidity.

The OM-71 and OM-73 sensors are open to the air. It is therefore important to ensure that water does not get into the unit. This is especially important in high humidity situations (90% RH and above) where water may condense inside the logger, causing damage to the internal electronics.

The OM-72 sensor is condensation resistant, but should not be submerged in liquid for an extended period of time.

Turning the Loggers On and Off

To conserve battery life, when the unit is not logging and no buttons are pressed, the logger will turn itself Off after about 1 hour of operation. The display will go blank and the unit will enter a power save mode. In this mode the logger uses practically no power, and the battery will last as long as its rated shelf life (typically 6 to 10 years).

To turn the logger On at any time, just press any of the logger's buttons. The display will come back On and the logger will operate normally.

Logger Display and Buttons

The logger display shows the current reading, the current time, the battery level, and the logging state of the device. The OM-73 alternates the display between temperature and humidity every two seconds. The previously recorded samples, stored in logger memory, can also be displayed by using the **Back** and **Forward** buttons.

Note: When scrolling through the recorded data, the OM-73 will not alternate the reading between temperature and humidity. To switch the history display between temperature and humidity, use the **Units** button.



The current time in hours and minutes, and the current date, is shown in the lower portion of the display. The time display is blank when the logger's internal real time clock is not running. This happens when the logger comes out of Power Down mode. When the current time is shown, the hours and minute separator, :, will blink once a second. You can browse through the samples logged in the device memory using the **Back** and **Forward** buttons. When browsing past samples, the time and date display show when the sample was taken. The temperature and/or humidity display shows the recorded value at that time. The hours and minutes separator, :, will not blink in this mode.

The logger will automatically exit the browse mode when the browsing goes passed the last sample recorded.

Note: To exit the browse mode quickly, press and hold the **Start** button for about 3 seconds. The hours and minutes separator, :, will start blinking after exiting the browse mode.

The display also shows if the logger is logging, or waiting to log, as follows:

- **Logging:** The **LOG REC** icon is displayed continuously.
- **Logging will start when the Start button is held:** The **LOG REC** icon flashes.
- **Logging will start at a specific time:** The **LOG REC** icon and the time display flashes. The time display indicates when the logging will start.

The **ALARM** icon is On when the recorded temperature and/or humidity has passed the user selected alarm thresholds anytime during logging. This is a "sticky" icon in that it does not go away when the reading returns to normal. The **ALARM** icon remains On even after logging is finished.

Replacing the Logger Battery

The loggers use a single Lithium CR2032 coin cell. This battery is readily available. The logger battery level is shown on the logger display, or can be checked using the Interface Software, by opening the *Logger Status* window. To insure reliable logging, especially in low temperatures, it is suggested that the battery is replaced when the battery level reaches 1 bar on the display, or is in the yellow zone in the Interface Software. When the battery indicator is empty on the logger display, or reaches the red zone in the Interface Software, the battery needs to be replaced before any logging takes place. When the battery level is too low, the logger will stop logging automatically to prevent data corruption.

To conserve battery power, the logger will shut down automatically when not logging, after about one hour of operation. To turn the logger back On, just press any button. The logger can run, while logging, continuously for about 3 years, under normal conditions.

To replace the battery:

1. Disconnect the logger from the USB cable. Do not replace the battery while the USB cable is connected!
2. Press any button on the logger to ensure that the logger is not in the power down state.
3. Place the logger, screen down, on a flat surface. Using a screwdriver, remove the 4 screws in the back of the logger and carefully remove the back of the case.
4. Carefully remove the back case. Do not lift the logger while doing this since the display can fall out.
5. Carefully remove the logger board from the case.
6. Using a small screw driver, gently push the battery out the holder. Once the battery is part way out, you can use your fingers to grab it and pull it out. Do not use tweezers or pliers since they will short the battery terminals.
7. Slide the new CR2032 battery into the battery holder. Make sure that the + indicator on the battery matches the + indicator on the battery holder.
8. Place the board back in the case. Make sure that the pins in the case slide into the four holes in the board. You may have to lift the unit slightly to make sure that the pins next to the buttons slide into the holes.
9. Replace the logger back cover and replace the 4 screws.
10. The display should show the current reading. If the display is blank after replacing the back cover, make sure that the back cover is screwed tight against the front cover.

Logger Specifications

Sample Point Capacity	43,344 temperature points for the OM-71 and OM-72. 21,672 temperature and humidity points for the OM-73.
Display	Current reading and time, logging status, alarm status, recorded sample history, battery level. OM-73 alternates the display between temperature and humidity every two seconds.
Alarms	Visual over and under alarm indicator for temperature and/or humidity
Calibration	User single point offset calibration is available through software. Calibration is password protected.
Operating Temperature	-5°F to 160°F (-20°C to 70°C)*
OM-72 External Probe Temperature	-40°F to 176°F (-40°C to 80°C)
OM-72 External Probe Length	6ft (1.8m)
Storage Temperature	-20°F to 175°F (-30°C to 80°C)
Time Accuracy	+/-100ppm @75°F
Temperature Accuracy	+/-0.9°F (0.5°C) for the range of 0°F to 120°F (-17°C to 50°C)
Temperature Resolution (PC Software)	0.05°F (0.03°C)
OM-73 Humidity Accuracy	+/- 2.0%RH for the range of 10%RH and 90%RH
OM-73 Humidity Resolution	0.05%RH
Dimensions	2.15" x 2.25" x 0.55" (5.5cm x 5.7cm x 1.4cm)
Weight	1.3 oz (40g)
Power Source	3V CR2032 Lithium coin cell battery (Included)
Battery Life (average use)	3 Years

* Lithium batteries do not perform well in very low temperatures. If the logger is going to be used in temperatures below 32°F (0°C), make sure to start with a fresh battery, and check the battery level often.