# Model DW-USB-RT Real-time USB Data Logger

## Specifications - Installation and Operating Instructions



BLUE LED

VENT TO HUMIDITY SENSOR
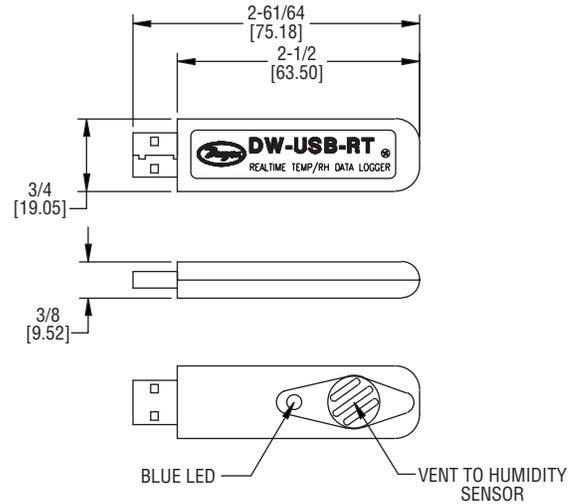
The **DW-USB-RT** Real-time USB Data Logger allows users to monitor temperature, humidity, and dew-point through the USB port of their PC. Real-time and recorded readings are displayed within the free downloadable Windows®-based application and can be exported to Excel® spreadsheet software. The DW-USB-RT can be configured to send e-mail notifications should a user-defined alarm condition be met.

| SPECIFICATIONS |
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| **Range:** Temperature: -4 to 158°F (-20 to 70°C); Humidity: 0 to 100%RH. |
| **Memory Size:** 32,764 readings. |
| **Accuracy:** Temperature: ±3°F (±1.5°C); Humidity:  4.5%RH. |
| **Resolution:** Temperature: 0.1°F (0.1°C); Humidity: 1%RH. |
| **Sampling Mode:** Continuous recording. |
| **Sampling Rate:** 1 sec. |
| **Computer Requirements:** Compatible with Windows® 7, Windows® 8, and Windows® 10. |
| **Power Requirements:** Powered from USB port. |
| **Housing:** ABS plastic blend. |
| **Alarms:** Programmable high/low e-mail alerts. |
| **Interface:** USB port. |
| **Weight:** 0.08 oz (23 g). |
| **Agency Approvals:** CE, RoHS. |

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## SOFTWARE INSTALLATION

Insert the DW-USB-RT real-time data logger into a spare USB port in your PC. Windows® operating system will automatically detect and install the standard Windows driver.

Visit our website www.dwyer-inst.com/DW-USBSoftware and click on the download link. If the installation folder doesn't open directly, go to your computer's "Downloads" folder and double-click on the "EasyLogUSBV610_Dwyer" folder.

Double-click on "setup" then follow the on screen instructions to complete the installation.

Once installed, the DW-USB-RT software should automatically run. Icons will be displayed on the desktop and in the notification area (the part of the task bar that contains the clock).

**NOTICE** If the icon does not appear in the notification area, double click the DW-USB-RT icon on the desktop. If an error message appears, you will need to install Microsoft® .NET framework Ver 2.0. The installation program, dotnetfx.exe, can be found in the software installation folder.

## SOFTWARE FEATUES

To access the software features, right click on the icon within the notification area or double-click on the application short-cut on the computer desktop.

Under the real time tab, you will see a rolling graph of the readings taken in the last 2-1/2 minutes.

To view a detailed graph, click on **Toggle View**. This will display all the data recorded for the current session. This graph does not automatically update. To include the latest data readings select **Update**.

To view an area of this graph in more detail, use the left mouse button to drag a rectangle around the region to be magnified. The previous view can be restored by clicking on **Zoom Out**.

Select the **Settings** tab to change the scale between Fahrenheit and Celsius, set alarms, mute the audible alarm, switch off automatic saving and gain access to the e-mail configuration area.

Right click on the icon within the notification area to select **Enable Monitoring** or **Disable Monitoring**. These options start and stop the software from taking readings.

Select **Exit** to close the EL-USB-RT application.

## E-MAIL ALERTS

The real-time data logger can be configured to send an alert via e-mail in the event of an alarm condition being met. Click **Settings** to access e-mail configuration.

Use the **Enable E-mail Sending** checkbox to enable/disable this feature.

In the **Send mail to** box, type an e-mail address and click on **Add**. You can add multiple recipients. When you click on **Add**, the addresses will appear in the **Recipients** box. To delete from the list, select the address and press the **Delete** key on your keyboard.

To configure e-mail alerts, you need to provide the SMTP details of your e-mail account. These include **Outgoing mail server name (SMTP), Outgoing mail server port number (SMTP), User name, Password, From address and Enable secure connection for this server (SSL)** settings.

This information can be found within your e-mail software's **Tools** menu or in the **Options** link if it is an internet based e-mail account.

The **Alarm timeout value** determines the minimum interval between alert e-mails for each alarm set.

The **Message** settings allow you to add additional text to your e-mail alert.

## SAVING DATA

Right click on the icon within the notification area and select **Save Data** to save the data recorded so far.

The current session data is stored in a temporary file. Unless the data is saved at the end of a session, this data will be lost.

If **No backup on session end** in not enabled, the user is prompted to save data at the end of the session.

The software records up to 32,000 readings. If the file becomes full during a session, the software will automatically save the temporary data file to the last used save directory and start a new session file.

## MAINTENANCE

Upon final installation of the data logger, no routine maintenance is required. The data logger is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a Return Goods Authorization number before shipping.