

# QUICK START GUIDE FOR DATA LOGGERS



## WELCOME

This user guide can let users be familiar with this series quickly. Please go through this user guide carefully before operating.

## GETTING STARTED

All you need to prepare are a PC running under Window XP/ Vista/7/8 (32 bit or 64 bit) with USB port and CD-ROM drive, the CD including Data Logger DGraph software and Driver, the data logger itself and 2pcs 1.5V triple A battery.

### 1. BATTERY INSTALLATION

Take out battery from the package and open the back cover on the device; Notice the cathode, install the battery properly and close cover, then device will be turned on

### 2. DRIVER AND SOFTWARE INSTALLATION

Insert the CD into your PC **CD-ROM drive**; double click the "USBXpressInstaller.exe" file included on the CD ->Driver Directory to start installing. Users can see the "Silicon Laboratories USBXpress Device Driver Installer" dialog first, click "Install" to follow the prompts until it shows "Success". Then click the "setup.exe" in the "Software" file directory and follow the prompts till complete the software installation. After software installation, then plug the data logger to PC USB port to get ready to setup.

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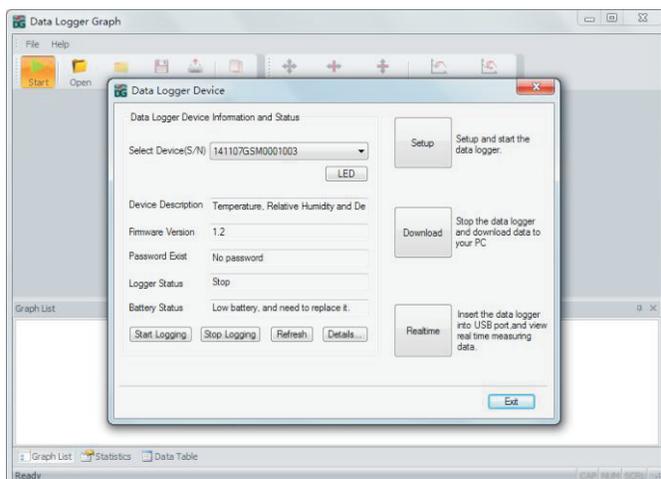
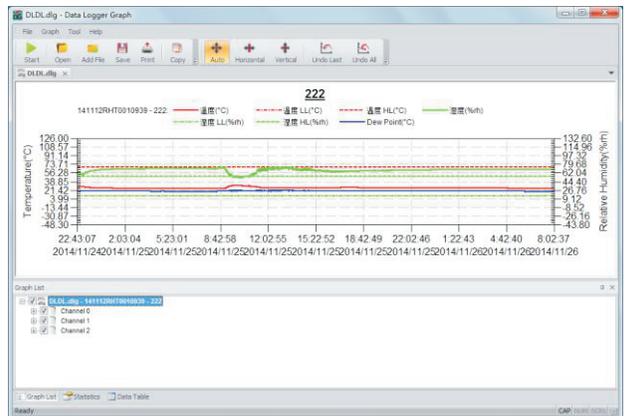
### 3. SETUP AND START

Please do the necessary data logger settings according to the following steps:

1. Make sure the data logger battery installed correctly and connected to PC USB port properly.
2. Double click the "Data Logger Graph" icon on your Windows desktop. This will load the Data Logger Graph software. On the left top of the software, you can see "Start" button and click on it. This will open "Data Logger Device" dialog. Select data logger device that will be set (or default). Here you can check the serial NO, firmware version, status, etc. of the selected data logger device. If no information display, then you have to check if the connecting or the driver is normal.
3. Click on the "Setup" button to load "Data Logger Setup" dialog. Here you can follow the screen instructions and setup the data logger.
4. On the "General", you can set logger name, sample rate (**Notice: For data logger with GSM SMS alarm function, it only can support letters A-Z and 0-9**) and visiting password.
5. On the "Channel Settings", you can set high/low limit, enable/disable alarm, and enable/disable alarm hold. Notice that to enable the corresponding channel alarm function so that this data logger can make sound and light alarm
6. On the "Start and Stop Method", you can select how to start and stop logging by your actual demands. Strongly suggest choose by "Press button" method to start and stop. In this case, users can operate Data Logger by long pressing to start or stop repeatedly without connecting to PC. Also all settings can be factory default if first attempts. Click on the "Finished" button or escape with "Cancel".
7. After finishing setting up, data logger will start according to your settings. Plug out the data logger and put in the specific work environment. Notice if data logger needs external power support or being logging status.

### 5. GRAPH

1. User can open a data logger file (\*.dlg, \*.mdl) via the menu "File->Open", and the graph will be shown.
2. Zoom in: Use the mouse to click and drag a box around any graph area to magnify the area selected. Zoom out: Click on the "Undo Last" or "Undo All" button on tool bar to show last graph area or the original graph area.
3. Pan: Press and hold the mid-button of the mouse at any graph location, and move the mouse to pan the graph area.
4. Zoom and Pan Method. Auto: Zoom and pan in any direction. Horizontal: Zoom and pan only in horizontal direction. Vertical: Zoom and pan only in vertical direction. Manually: Set the start time and end time for horizontal axis, and set the scale for the vertical axis.
5. Mark Data Points: Click right-button on graph area to show the pop-up menu below, Click "Mark Data Points" to show marks on all sample point locations.
6. Graph Settings: Click right-button on graph area to show the pop-up menu below, click "Graph Settings" to show a dialog. User can set color, font, line size and unit for the graph.



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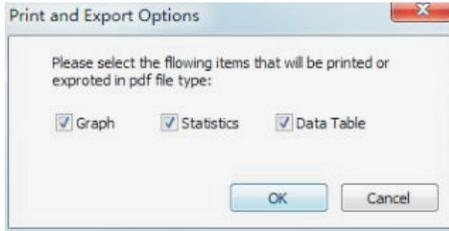
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## 6. FILE EXPORT

The software save and open the \*.dlg or \*.mdlg file type in default. User can click "File->Save As" to save the \*.dlg or \*.mdlg as other file types, including \*.txt, \*.csv, \*.xls, \*.bmp, and \*.jpg.

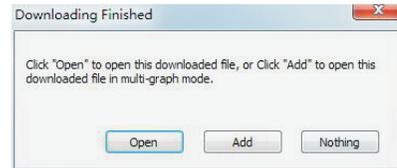
## 7. PRINT

- 1.To print the graph, statistics and data table, click on the printer icon on standard toolbar or select "Print" from the "File" pull-down menu.
- 2.User can also click the "File->Print and Export Options" select the printed contents in the following dialog.

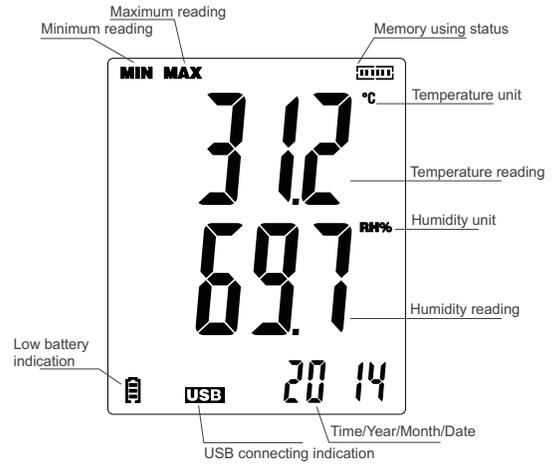


## 4. DATA DOWNLOAD

- 1.Click on the "Download" button on the "Data Logger Device" dialog. Here you can follow the screen instructions to download and save the data to PC. Please note that you need to input correct password to operate this step if the data logger has been set a password before (No for factory default).
- 2.After downloading finished, a "Downloading Finished" dialog will be shown, user can click the "Open" button to graph the downloaded data.



## LCD DISPLAY AND BUTTONS INSTRUCTIONS (non-recording status)



Data Logger is not in Logging mode when there is no LOG symbol on the right top of LCD display.

LCD displays the real-time readings and refresh every 16 seconds.

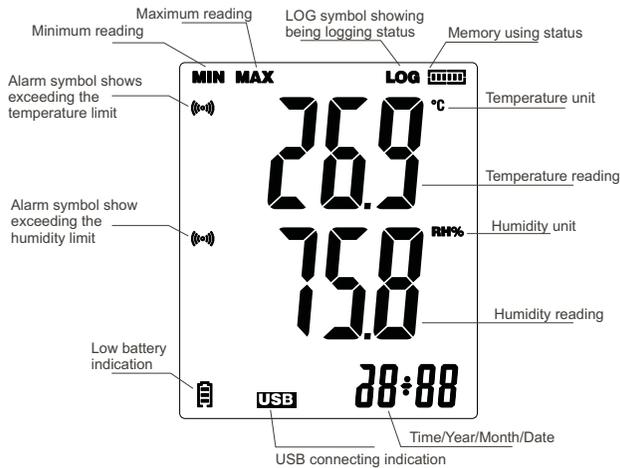
Users single press the MAX/MIN/START/STOP button can have the Maximum and Minimum readings since the data logger gets.

Users single press C/F/ON/OFF button can switch the temperature unit. Long press this button can turn on/turn off the LCD display. Notice: there will be no date/time display if data logger has no setup with PC after installing battery.

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## LCD DISPLAY AND BUTTONS INSTRUCTIONS (under logging mode)



Data Logger is in Logging mode when there is LOG symbol on the right top of LCD display. LCD displays the real-time readings and refresh every 16 seconds.

Users single press the MAX/MIN/START/STOP button can have the Maximum/minimum readings that the data logger records. Notice: Suggest choose the Press Button to start and stop method, in this case, user can long press this Button to start or stop with no need connecting to PC to setup.

Users single press C/F/ON/OFF button can switch the temperature unit. Long press this button can turn on/turn off the LCD display. Notice: If you want to start recording, you have to connect Data Logger with PC to finish some necessary settings after installing battery.

## NOTICES

- Make sure if Data Logger should be supported by external power.
- Knowing the waterproof level, measuring range, accuracy, work environment well and put the Data Logger in correct situation properly.
- Some sensors will age and drift inevitably, and if necessary, you can consult your supplier to get help on recalibration.

Special Reminding:

For further information on the software, you can access the Help menu on the software interface or other documents on the CD.

