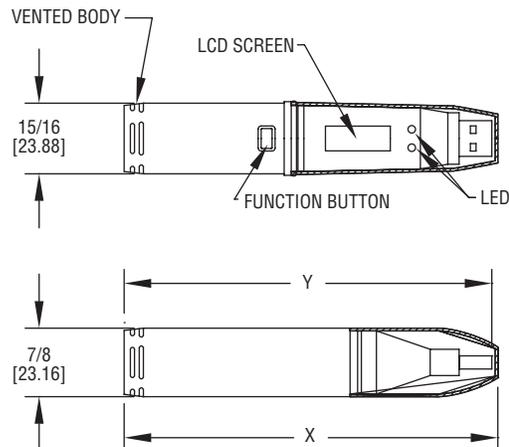




Series DW-USB-LCD Compact USB Data Logger With Display

Specifications - Installation and Operating Instructions



Model	Overall Length (X)	Base Length (Y)	Body	Cap	LED
DW-USB-1-LCD	4-21/32"	4-41/64"	Standard	Transparent	Red/green
DW-USB-2-LCD	4-31/32"	4-57/64"	Vented	Transparent	Red/green
DW-USB-6-LCD	5-19/64"	5-15/64"	Plug in bottom	Transparent	Red/green
DW-USB-2-HA-LCD	4-31/32"	4-57/64"	Vented	Transparent	Red/green

The portable **SERIES DW-USB-LCD** USB Data Loggers displays and records temperature, humidity and dew point. The easy-to-read LCD display shows the current temperature or humidity along with the minimum and maximum reading since last reset. For applications that require more accuracy, a high accuracy temperature and humidity model is available. Thermocouple models come with a basic K-type thermocouple capable of reading from 32 to 752°F (0 to 400°C) and can accept any J, K, or T type thermocouple with a mini-plug connector. Series DW-USB-LCD data loggers use a free downloadable Windows® based software which allows selection of the sampling rate, start time, high/low alarm settings, and temperature unit application. For quick downloading of data, the data logger can be plugged directly into a PC's USB port with no cable required. Downloaded data can then be graphed, printed, or exported to other spreadsheet applications.

SPECIFICATIONS

Range: DW-USB-1-LCD: Temperature -31 to 176°F (-35 to 80°C); DW-USB-2-LCD: Temperature: -31 to 176° F (-35 to 80°C), Humidity: 0 to 100% RH; DW-USB-2-HA-LCD: Temperature: -31 to 176° F (-35 to 80°C), Humidity: 0 to 100% RH; DW-USB-6-LCD: K-type: -328 to 2372°F (-200 to 1300°C), J-type: -202 to 1652°F (-130 to 900°C), T-type: -328 to 662°F (-200 to 350°C).

Accuracy: DW-USB-1-LCD: ±3°F (1.5°C); DW-USB-2-LCD: ±4°F (2°C), ±3% RH from 20 to 80% RH, ±5% RH; DW-USB-2-HA-LCD: ±3°F (1.5°C), ±2% RH from 20 to 80%, ±4% RH; DW-USB-6-LCD: ±2°F (±1°C) for the data logger only.

Resolution: Temperature: 1°F (0.5°C); Humidity: 0.5% RH.

Memory Size: Thermocouple models: 32510 readings; Temperature/humidity models: 16382 readings.

Sampling Mode: Stop when full, or roll over.

Sampling Rate: Selectable from 10 seconds to 12 hours for temperature/humidity models; 1 second to 12 hours for thermocouple models.

Display: LCD and 2 LED's.

Computer Requirements: Compatible with Windows® 7, Windows® 8, and Windows® 10.

Power Requirements: 3.6 1/2 AA battery (included).

Housing: ABS plastic blend.

Alarms: Programmable high/low.

Interface: USB port.

Weight: Temperature/humidity models 1.6 oz (45.4 g); Thermocouple models 1.8 oz (51 g).

Agency Approvals: CE, RoHS.

OPERATING INSTRUCTIONS

LED FLASHING INDICATORS

DW-USB-2-LCD DW-USB-2-HA-LCD	DW-USB-6-LCD
Green triple flash Logger full, no alarm on the channel	Green double flash Every 20 seconds: logger full, no alarm
Red triple flash Logger full, alarm on the channel	Green single flash Every 30 seconds: delayed start Every 20 seconds: low battery, logging, no alarm Every 10 seconds: logging, no alarm
Green double flash Delayed start	Red/Green single flash Every 20 seconds: logger full, last value equal to or exceeds the low or high alarm
Green single flash Logging, no alarm	Red double flash Every 10 seconds: logging, high alarm Every 20 seconds: logging, high alarm, low battery
Red single flash Logging, low alarm on the channel	Red single flash Every 10 seconds: logging, low alarm Every 20 seconds: logging, low alarm, low battery
Red double flash Logging, high alarm on the channel	No LEDs flash LEDs disabled during configuration to save battery power and increase logging life/logger stopped/battery empty
No LEDs flash Logger stopped or battery empty	

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LCD INDICATORS

DISPLAY AND STATUS FUNCTIONS	LCD INDICATION															
<p>DW-USB-2-LCD</p> <p>Maximum logged value symbol Relative Humidity symbol Negative symbol Minimum logged value symbol Reading Temperature scale</p> <p>DW-USB-6-LCD</p> <p>Temperature scale symbols Maximum/Minimum logged value symbol</p>	<table border="1"> <thead> <tr> <th>Display</th> <th>Logger Status</th> <th>Explanation</th> </tr> </thead> <tbody> <tr> <td>d5</td> <td>Delayed Start</td> <td>This is shown when the logger is set to start at a specific date and time*</td> </tr> <tr> <td>P5</td> <td>Push to Start</td> <td>This is shown when the logger is setup for "push to start" logging</td> </tr> <tr> <td>109</td> <td>Logging</td> <td>This is shown when the logger is running in "LCD off" mode, and the button is pressed. The display clears again after three seconds.</td> </tr> <tr> <td>---</td> <td>Stopped</td> <td>If the logger has not been set to log and the button is pressed, three dashes are displayed for three seconds</td> </tr> </tbody> </table> <p>*If the logger is set to "LCD off" or "LCD on for 30 seconds" mode, then this will be shown after the button is pressed. Otherwise the display will remain blank.</p>	Display	Logger Status	Explanation	d5	Delayed Start	This is shown when the logger is set to start at a specific date and time*	P5	Push to Start	This is shown when the logger is setup for "push to start" logging	109	Logging	This is shown when the logger is running in "LCD off" mode, and the button is pressed. The display clears again after three seconds.	---	Stopped	If the logger has not been set to log and the button is pressed, three dashes are displayed for three seconds
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BUTTON OPERATION

The button performs two functions:

- To start the logger when in push to start mode.
- To enable the display and cycle through the available display modes (see diagram below).

If the button is not pressed for 30 seconds. The LCD disables and the logger returns to the beginning of the display cycle.



BATTERY INSTALLATION

Before using the data logger, you will need to insert the 3.6 V 1/2 AA battery provided, following the instructions below.

- Use screwdriver to gently depress tab of the battery compartment.
- Pull battery cover towards you, away from the unit.
- Install the battery, taking note of polarities.
- Replace battery cover. Cover is secure when tab returns to original position.



SOFTWARE INSTALLATION

This software must be installed prior to the USB Driver. Please follow the instructions below then refer to the USB Driver Installation based on the Windows® operating system you are using.

- Visit our website www.dwyer-inst.com/DW-USBSoftware and click on the download link. If the download 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 Configuration Software Installation.
- An EasyLog USB icon will now be placed on your desktop.

USB DRIVER INSTALLATION

Windows® 7/Windows® 8/Windows® 10 Operating Systems:

You must install the Configuration Software as instructed in the previous section before going through these steps.

- Insert the USB data logger directly into a USB port on the computer. Installation screens should automatically appear.
- Follow the on screen instructions to complete the Configuration Software Installation. If a compatibility error window appears, click "Continue Anyway". This will not cause any adverse changes/effects on your computer.
- You can now begin using our data logger by double clicking on the EasyLog USB icon on your computer's desktop.

MAINTENANCE

Upon final installation of the Compact DW-USB-LCD Data Logger, no routine maintenance is required. Leaving the logger plugged into your computer for an extended period of time will considerably lower its battery life. A periodic check of system calibration is recommended. The Series DW-USB-LCD 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.